



LAND USE SERVICES DEPARTMENT PLANNING COMMISSION STAFF REPORT

HEARING DATE: May 5, 2015

Project Description:

AGENDA ITEM: 2

Vicinity Map N↑

APNs: 0274-182-34, 43 and 46

Applicant: AMCAL Las Terrazas Fund LP-Darin Hansen

Community: City of Colton/Fifth Supervisorial District

Location: Northwest corner of Valley Boulevard and Cypress Avenue.

Project No.: P201500538

Staff: Aron Liang, Planner

Rep.: Jay Ross

Proposal: A General Plan Land Use District Amendment from Single Residential (RS) and Commercial General (CG) to Special Development-Residential (SD-RES), a Lot Merger to combine three parcels into one 5.92-acre parcel and a Planned Development Permit to construct a 112-unit affordable housing project with community and childcare buildings.



1,100 Hearing Notices Sent On: April 21, 2016

Report Prepared By: Aron Liang

SITE INFORMATION:

Parcel Size: 5.92 acres

Terrain: Flat

Vegetation: Limited vegetation with shrubs and grasses along the project site edges

SURROUNDING LAND DESCRIPTION:

AREA	EXISTING LAND USE	LAND USE ZONING DISTRICT
SITE	Vacant	Commercial General (CG) and Single Residential (RS)
North	Single-family residential uses	Single Residential (RS)
South	Valley Boulevard and Interstate Freeway 10	Commercial General (CG) and CALTRANS
East	Single-family residential and commercial uses	Commercial General (CG) and Single Residential (RS)
West	Commercial uses	Commercial General (CG)

AGENCY

City Sphere of Influence: City of Colton

Water Service: City of Colton

Septic/Sewer Service: City of Colton

COMMENT

None

Will Serve Letter Received

Will Serve Letter Received

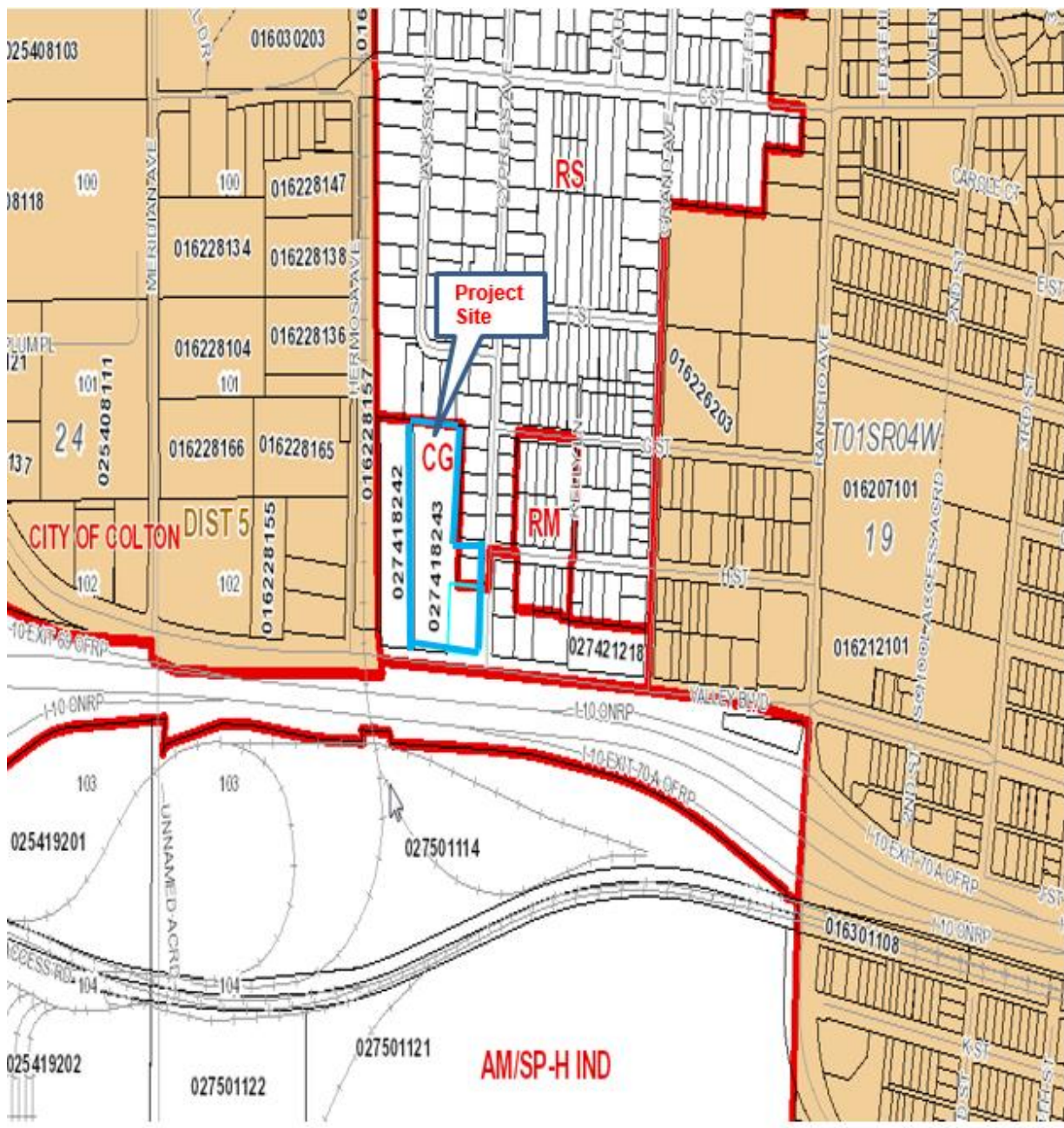
STAFF RECOMMENDATION: That the Planning Commission **Recommend** that the Board of Supervisors **APPROVE** the General Plan Amendment from Single Residential (RS) and Commercial General (CG) to Special Development-Residential (SD-RES) and the Planned Development Permit.

This project shall be referred to the Board of Supervisors for final action. Therefore, the recommendations of the Planning Commission are not the final action and cannot be appealed to the Board.

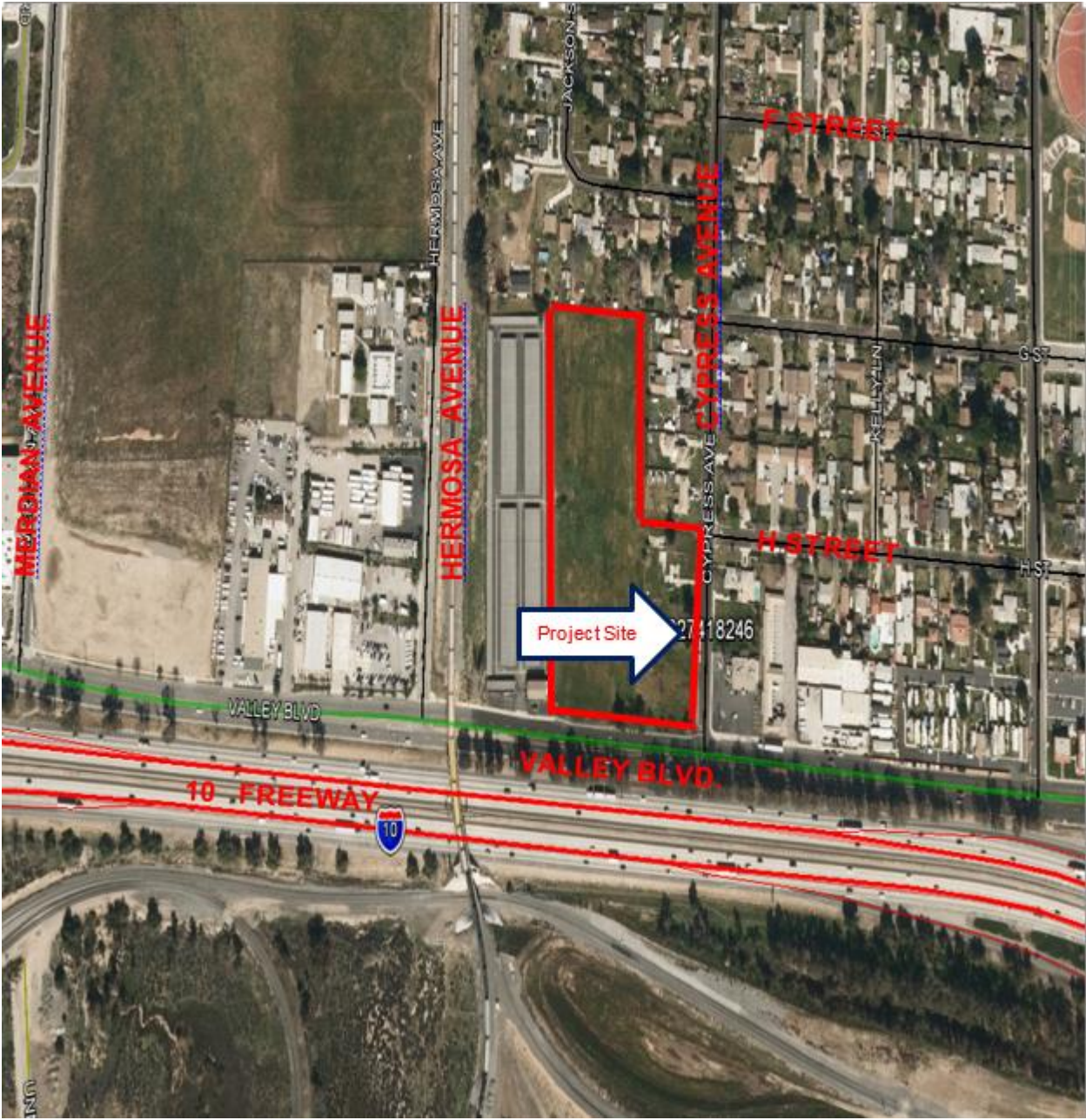
VICINITY MAP / EXHIBIT 1



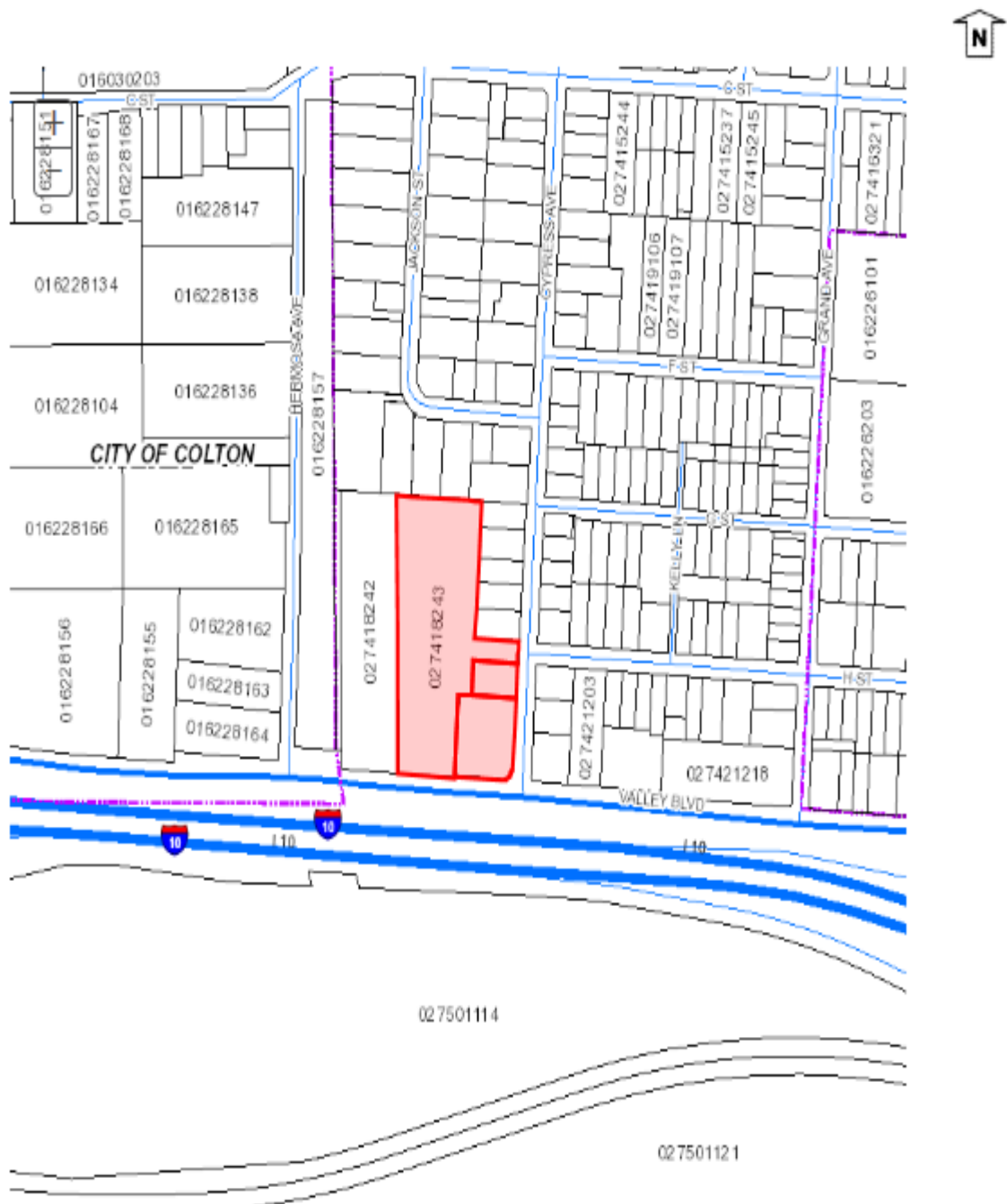
LAND USE ZONING DISTRICT MAP



AERIAL MAP



ASSESSOR'S PARCEL MAP

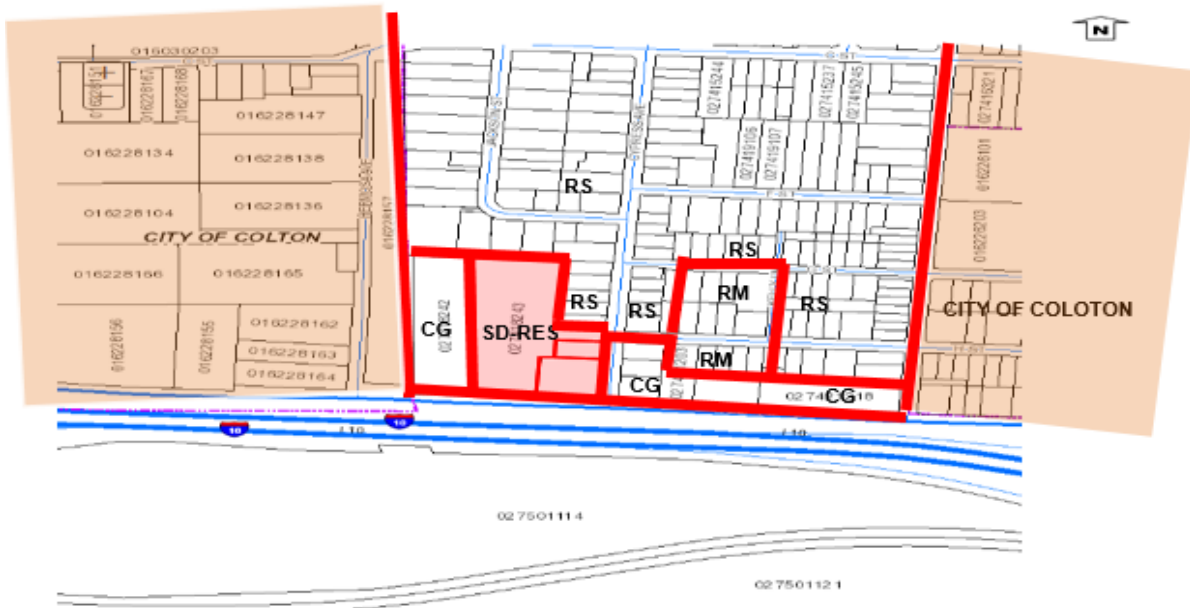


GENERAL PLAN AMENDMENT

Existing General Plan/Zoning Designations:



Proposed General Plan/Zoning Designations:



PROJECT RENDERINGS

2-Story Building



3-Story Building



PROJECT RENDERINGS (cont.)

Community Building



Childcare Building

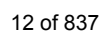


PROJECT RENDERINGS (cont.)



PROJECT RENDERINGS





BACKGROUND

On February 12, 2013, the Board of Supervisors (Board) approved a \$2,266,000 loan in Neighborhood Stabilization Program (NSP) funds to the developer, AMCAL Las Terrazas Fund L.P. (AMCAL), for development of the Las Terrazas Affordable Housing Project (Project). These funds were used to acquire the Project site, to and to cover pre-development costs associated with technical studies, engineering, architectural design, and other plans required to entitle the Project. The NSP loan will be repaid from future revenues generated from the Project operations.

AMCAL was selected to develop the Project as a result of a competitive process, in which eight (8) proposals were received in response to a Request for Proposals (RFP) No. RHD-2011/2012-01, issued on November 22, 2011. The purpose of the RFP was to select a developer to assist the County with providing decent, safe, long-term, high-quality affordable housing as a community asset for the Project site, in the unincorporated area of the County, adjacent to the City of Colton.

PROJECT DESCRIPTION

The Project consists of a General Plan amendment, a Planned Development Permit and a lot merger to consolidate three parcels that comprise the site.

General Plan Amendment (GPA): Currently, the majority of the site (approximately 5.6 acres) is designated General Commercial (CG) by the General Plan. The rest of the site (0.32 acre) is designated Single Residential (RS). A Planned Development Permit for mixed use development may be processed in the CG district, but only a single residence is permitted in the RS district. Therefore, a GPA is proposed to consolidate the zoning designation of the entire site to the Special Development-Residential (SD-RES) district. This designation is ideal for a mixed-use planned development that will be primarily residential. It will also be compatible with the mixed uses and land use designations surrounding the site. There are single family homes in the RS district directly to the north; a storage facility, and mixed office and commercial uses on properties zoned CG to the west and southeast; and mixed residential uses in an area zoned Multi-Residential (RM) to the northeast.

Lot Merger: A lot merger will be required to eliminate internal property lines and combine three existing parcels into one 5.92-acre parcel to accommodate development of the Project.

Planned Development Permit (PDP): The Project provides a mixed-use, 112-unit, 100% affordable residential development with a wide array of on-site services and amenities, including:

- A child care center, open to residents and neighbors.
- Resident services, including classes in English as a second language, personal finance, nutrition, resume assistance and after-school programs.
- A community building with a kitchen, lounge, classrooms and computer lab.
- Outdoor barbecues and picnic areas, play areas and "tot" lots.
- A Pool, sports court, and outdoor exercise stations.
- Passive open space, walking paths, and gardens.
- Covered parking with solar panels on carport covers.

The PDP is comprised of Preliminary and Final Development Plans, which demonstrate design excellence beyond what would be achieved with development under standard zoning requirements, in conformance with Chapters 84.18, Planned Development Standards and 85.10, Planned Development Permits of the County Development Code (Development Code). The PDP allows flexibility in development standards, to create a site-specific design that meets the goals of the Project. Affordable housing incentives also allow easing of standard regulations, in exchange for the commitment to affordable housing.

Development Incentives: Although the PDP application review procedures and the Affordable Housing Program provide for multiple incentives and concessions in the form of relaxed development standards, the only development standards eased for the Project were reductions in open space requirements, a modified standard for parking spaces for 2 and 3-bedroom units, and a modification of the building length standard. The design of the Project efficiently provides quality in the open space to compensate for a reduced quantity, and the parking provided for residents is still 1.7 spaces per unit, overall. These standard modifications are detailed in the Project analysis.

Other benefits and noteworthy features of the Project include:

- Designed for Leadership in Energy and Environmental Design (LEED) Silver certification.
- Mediterranean architecture with red tile roofs, archways, and decorative iron work.
- Perimeter fencing of decorative block and wrought iron.
- A 55-year affordability covenant.
- On-site, accredited, property management.
- Crime-free multi-housing program participation.
- Infrastructure improvements, including extension of water and sewer services.
- Remediation of contaminated soils from previous agricultural use.
- Progress toward Regional Housing Needs Assessment goals for affordable housing.

Project Development Schedule: Subject to approval by the County and successful competition for the next available cycle of tax credit financing, the Project would be scheduled to begin construction in March of 2017, with completion anticipated in September 2018.

ANALYSIS:

Development Standard Concessions:

Chapter 83.03 of the Development Code (Affordable Housing Incentives – Density Bonus) provides for additional density or concessions in development standards to be granted to affordable housing projects, as an incentive to produce affordable housing. A PDP in the SD-RES is permitted to be developed consistent with the maximum residential density of the Multi-Residential (RM) land use district, which is 20 units per acre. The proposed Project density is only 18.9 units per acre, so no density bonus is requested. There are a few development standards that the Project does not fulfill. These standards can be modified by the PDP process, provided that the design of the resulting project is excellent, and merits the modifications. Staff recommends approval of the Project design on that basis. However, the Project is also eligible for development standard concessions as an affordable housing concession. Following are details of the requested concessions:

1. Reduction in common open space from 40% (103,195 sq. ft.) to 17% (43,218 sq. ft.).
2. Reduction in private open space per unit from 225 sq. ft. to 55 sq. ft. (patio) for ground-floor units, and from 60 sq. ft. to 55 sq. ft. (balcony) for upper-floor units.
3. Reduction in minimum unit size for 1-bedroom units from 650 sq. ft. to 570 sq. ft. and for 2-bedroom units from 850 sq. ft. to 835 sq. ft.
4. Increase in maximum building length from 100 ft. to 146 ft., 156 ft., and 161 ft.
5. Reduction in parking from 2 spaces to 1 space for 2- and 3- bedroom units (carports will be used).

The quality of the open space and other on-site amenities and services compensates substantially for the reductions of standard requirements requested by the Project. The following table contains a detailed breakdown of the elements of the Project, including the concession items listed above and the compensating amenities:

Table 1: Project Components

Project Component	Description
Dwelling Units	112 units, ranging from 525 to 1,020 square feet (net), for a density of 18.9 DU/Acre. Units will be rented as affordable housing for low and very-low income households of the community.
Day Care	The daycare center will be 2,500 square feet, with at least 75 square feet of play area per student. There will be capacity for 4 employees and 40-50 children. The floor plan will provide: <ul style="list-style-type: none"> • 1 office • 2 classrooms • Shared restroom • Several storage areas • 1 teacher lounge/kitchen. Hours of operation: Monday–Friday 8:00 am to 6:00 pm The facility would serve residents and neighbors.
Community Building	The community building will be one-story, 2,300 square feet, and will host events and classes, and be used to provide other social services.
Social Services	Social services to be provided include: <ul style="list-style-type: none"> • English as a second language • Resume assistance • After school program • Personal finance • Nutrition • Case management
Amenities	Landscaped areas, “tot” lots, gardens, a pool, a sports court/recreation area, barbecue/picnic areas, totaling 43,218 square feet.
Parking	The Project provides 205 parking spaces, consisting of 194 resident (1.7 spaces per unit), and 11 daycare spaces. Solar panels will be installed on the carports.
Storm Drainage	A storm drain is located on the northwest corner of Cypress Avenue and Valley Boulevard. This drain will be re-built to provide 2 new inlets and a 100-ft. extension to the channel on the south side of Valley Boulevard.
Sewer	The Project will require a 400-ft. extension north along Cypress Ave. from the existing sewer main on Valley Blvd. The City of Colton will provide sewer and water service to the Project.
Source: Withee Malcolm Architects, LLP 2016.	

Site Access: Primary site access will be provided on Valley Boulevard. A gate is proposed for the Valley Boulevard access, located beyond the parking area for the day care center and community building. Pedestrian access gates will also be provided along Valley Boulevard. A driveway on Cypress Avenue, directly opposite of H Street, will be gated for resident exit only, and will also provide emergency service entry. Internal roadways wrap around the five residential buildings, providing access and parking adjacent to each building.

Transit Service: Omni Trans provides public transit service in the Project area. The applicant proposes to construct a shelter for the existing bus stop located on Valley Boulevard, adjacent to the Project site.

Soils Remediation: Due to previous agricultural use of the site, on-site soils are contaminated and require remediation. Under the oversight of Department of Toxic Substances Control (DTSC), approximately 715 tons of contaminated soil will be excavated and disposed of. The remediation procedure will ensure that the site is safe for development of the proposed Project.

COMMUNITY OUTREACH

During 2012, three community meetings were held to discuss preliminary plans for the Project, including funding sources and resident eligibility. Concerns from the neighbors about potential funding from the Mental Health Services Act (MHSA) to provide housing for qualifying residents led County staff and AMCAL to re-evaluate the design and the funding strategy for the Project. The result is a \$32,000,000, 100% affordable, 112-unit mixed-use planned development, with substantial amenities, including on-site child care. It is a multi-generational affordable community, with no MHSA funding component. Comments from neighbors also influenced the site design, maximizing the structural setback from the northerly property line, and limiting the northern-most buildings to two-story height, to avoid imposing a large building mass adjacent to the existing homes in the neighborhood.

On January 13, 2016, AMCAL held another community meeting to present the revised Project plan, including the child care center, which will be available to both residents and the surrounding community. The residents of the area still expressed concerns about potential adverse impacts on their property values, especially if the site should deteriorate and not be managed well. In response, AMCAL has committed to participation in the Crime Free Multi Housing Program (CFMHP). The CFMHP is a partnership between the County Sheriff's Department, property managers/owners, landlords and residents, who work together to foster a safer community in rental properties. The CFMHP is designed to help residents, owners and managers keep drugs and other illegal activity off their properties. In addition to CFMHP participation, AMCAL has partnered with FPI Management, an accredited management organization, which is one of the largest and most experienced in the nation.

Project Notices: Based on feedback from area residents in the community outreach meetings, the radius of notification regarding the Project, including public hearing notices, has been increased to a radius of ½ mile surrounding the Project site. This results in a mailing list of over 1,200 recipients.

NEPA/CEQA

Because a portion of the Project funding will come from the federal Neighborhood Stabilization Program, the Project is subject to the National Environmental Policy Act (NEPA), as well as the California Environmental Quality Act (CEQA). An Environmental Assessment (EA)/Initial Study (IS) has been prepared for the proposed Project, in accordance with NEPA and CEQA. The EA/IS concluded that if the Project is developed in accordance with applicable County standards, and with the recommended mitigation measures, the Project will not have a significant adverse effect on the environment. Therefore, staff recommends adoption of a NEPA Finding of No Significant Impact (FONSI) and a CEQA Mitigated Negative Declaration (MND).

On February 9, 2016, a Notice of Intent and Notice availability (NOI/NOA) to adopt a joint FONSI and MND was released for a 30-day public comment review period from February 10, 2016, to March 10, 2016, in accordance with NEPA and CEQA requirements. During the public review period, several comment letters were received from public agencies and the public. A summary of the comments, with responses, is provided in Exhibit G.

Following is a brief summary of key issues analyzed in the EA/IS document:

Aesthetics: The Project will improve the aesthetic quality of the site, and will be compatible with, and a positive addition to the surrounding neighborhood. The architectural style of the Project is a Spanish/Mediterranean motif that pays homage to the mission heritage and traditional adobe construction in the history of the area. All facades have extensive articulation with varied vertical planes that project out and step back, breaking up the mass of the buildings. The roofs will be traditional red tile, with varying pitches, with gables and eaves that add interest. Additional details include horizontal-slat shutters for windows, decorative ironwork and clay work, classic light fixtures on the walls, balconies with railings and frames, and archways that have nooks and decorative columns.

Air Quality: The Project site is located in the South Coast Air Basin (SCAB), which is designated as an extreme nonattainment area for ozone, and a non-attainment area for PM₁₀ and PM_{2.5}. The Project would be located within a “non-attainment” area that conforms to the EPA-approved State Implementation Plan (SIP), and requires no individual National Emissions Standards for Hazardous Air Pollutants (NESHAP) permit or notification for the Project. The Project would not exceed the SCAQMD’s localized or regional thresholds of significance for construction activities or long-term operations. Because the site is located adjacent to a major transportation corridor (Interstate 10), mitigation has been included to reduce potential health risks to residents with state-of-the-art heating, ventilation, and air conditioning (HVAC) systems, equipped with high-efficiency filters.

Greenhouse Gases: The Project will comply with Title 24 requirements of the California Green Building Code. Furthermore, the Project is pursuing LEED Silver Certification. Operational GHG emissions would be largely derived from passenger vehicles making trips to and from the site. The CalEEMod model runs calculated the Project’s GHG emissions (including remediation activities). There will be 428 metric tons of CO₂ equivalents generated during remediation and construction. The SCAQMD recommends amortizing construction emissions over a period of 30 years to estimate the contribution of construction emission to operational emissions over the Project lifetime. Amortized over 30 years, the construction of the Project will generate 14 metric tons of CO₂ equivalents on an annualized basis. Furthermore, the Project would generate a total of 1,393 metric tons of CO₂ equivalents during operation. Adding the amortized construction emissions results in approximately 1,407 metric tons of CO₂ equivalents, which is well below the County Greenhouse Gas Reduction Plan threshold of 3,000 metric tons of CO₂ equivalents emissions for residential and commercial land uses.

Hazardous Materials: Chemicals in the soils relating to past agricultural use of the site exceed California Human Health Screening Levels CHHSLs for residential uses. Therefore, remediation is required to eliminate this hazard, according to the following mitigation measure:

- HAZ-1: Prior to the issuance of a grading permit, the Project Applicant shall provide documentation to the County of San Bernardino indicating DTSC approval of a plan containing all corrective measures required for the Project to remove contaminated soil.

The Applicant has entered a voluntary agreement with the DTSC. The Applicant will excavate the impacted soil for transport and disposal at a licensed off-site disposal facility in accordance with requirements of the DTSC. The site will be remediated to meet US EPA Regional Screening Levels for residential soils and DTSC Human and Ecological Risk Office Human Health Risk Assessment Note 3.

Traffic: A traffic analysis, prepared for the Project by Linscott Law & Greenspan on October 15, 2015, has been approved by the County Traffic Engineer. The Project is forecast to generate approximately 918 daily vehicle trips, which include approximately 93 a.m. peak hour trips and 106 p.m. peak hour trips. The effect of these trips on the surrounding roadway network was analyzed for both near-term Year 2018 conditions, and long-term Year 2035 conditions. The forecast year 2018 and forecast year 2035 analyses included traffic associated with ambient growth, in addition to a range of cumulative projects identified by County staff. The study area for the analysis includes four (4) key study intersections.

Key Study Intersections:

1. Cypress Avenue at H Street (County of San Bernardino)
2. Pepper Avenue at Valley Boulevard (City of Colton)
3. Cypress Avenue at Valley Boulevard (County of San Bernardino)
4. Rancho Avenue at Valley Boulevard (City of Colton)

Based on the study, the addition of Project-generated trips to the surrounding roadway network was determined to result in no significant adverse traffic impacts under any of the analysis scenarios. The Project site is located on a major thoroughfare, Valley Boulevard, and is served by Omni Trans bus stops located within 0.1-mile of the site. The Project will also provide a bus stop shelter at the nearest bus stop on Valley Boulevard. Additionally, the Project will provide bicycle racks on-site to encourage alternative forms of transportation, and will install a sidewalk along the Valley Boulevard frontage. The following improvements recommended by the traffic study to ensure adequate access to and from the Project site have been included in the conditions of approval:

- Install a "STOP" sign and stop pavement markings at the Project driveway on Valley Boulevard.
- Install a "STOP" sign and stop pavement markings at the Project driveway on Cypress Avenue.
- Restripe Valley Blvd. along the Project frontage to provide a two-way left turn lane and 60 foot eastbound left turn pocket at its intersection with Cypress Avenue.

The Project is also required to pay fees pursuant to the Regional Transportation Facilities Mitigation Plan for the Colton Subarea. The total fee is approximately \$366,943.

SUMMARY

In conclusion, staff recommends approval of this Project as a well-designed, high-quality, addition to the community. The amenities and services and affordable homes to be provided by the Project will be a substantial investment that will benefit many.

RECOMMENDATION: That the Planning Commission **RECOMMEND** to the Board of Supervisors that the following actions be taken:

- 1) **ADOPT** the Mitigated Negative Declaration (MND), pursuant to CEQA, and the Finding of No Significant Impact (FONSI), pursuant to NEPA.
- 2) **ADOPT** the findings recommended for approval.
- 3) **APPROVE** the General Plan Amendment from Single Residential (RS) and General Commercial (CG) to Special Development-Residential (SD-RES) on 5.92 acres located at the northwest corner of Cypress Avenue and Valley Boulevard.
- 4) **APPROVE** the Planned Development Permit for the Las Terrazas Mixed-Use Affordable Housing and Childcare Project for development of 112 affordable dwelling units with community and child care buildings, subject to the conditions of approval.
- 5) **DIRECT** the Clerk of the Board to file the Notice of Determination.

ATTACHMENTS:

- Exhibit A: Findings
Exhibit B: Conditions of Approval
Exhibit C: Joint Environmental Assessment/Initial Study Document
Exhibit D: Mitigation Measures
Exhibit E: Comment Letters from Property Owners
Exhibit F: Comment Letters from Responsible Agencies
Exhibit G: Responses to Comments
Exhibit H: City of Colton Response to Comments

EXHIBIT A

Findings

For a General Plan Land Use District Amendment (GPA) from Single Residential (RS) and Commercial General (CG) to Special Development-Residential (SD-RES), a Lot Merger to combine three parcels into one 5.92-acre parcel and a Planned Development Permit to construct a 112-unit affordable housing project with community and childcare buildings (Project), the following findings are made:

FINDINGS - GENERAL PLAN AMENDMENT (COMMERCIAL GENERAL AND SINGLE RESIDENTIAL TO SPECIAL DEVELOPMENT-RESIDENTIAL)[SBCC 86.12.060]

1. The proposed GPA, a request to change the official land use district from RS and CG to SD-RES, would create consistent zoning on a vacant site, to allow new mixed-use development. Establishment of the SD-RES zoning district will permit new affordable housing development and support services in an area that has not experienced new development under the current CG and RS land use designations for decades. The proposed GPA would allow new development compatible with and complementary to the surrounding neighborhood, consistent with the following policies of the County General Plan:

Policy H-2.2 - Continue to utilize Planned Development density bonus and incentive provisions as described in the County Development Code (Development Code) to allow the development of lot sizes less than that normally required by residential land use districts.

Policy Implementation: The Project would utilize a Planned Development Permit (PDP) that would allow flexibility in the application of development standards to construct 112 multi-family homes for low- and very low-income households in the unincorporated area of San Bernardino County, consistent with Government Code Section 65915 and Development Code Chapter 83.03 - Affordable Housing Incentives and Density Bonus. Additionally, the units will help the County meet its Regional Housing Needs Assessment (RHNA) requirements, as identified in the Housing Element of the General Plan by providing additional low and very low-income housing opportunities in the County and a 55-year affordability covenant that will ensure the long term affordability of the designated affordable units in the Project.

Policy H-2.3 - Allow flexibility in the application of residential and mixed-use development standards in order to gain benefits such as exceptional design quality, economic advantages, sustainability, or other benefits that would not otherwise be realized.

Policy Implementation: The proposed GPA will allow the Project site's location on a vacant parcel adjacent to existing residential development to the west and north to be developed with a mixed-use affordable housing project and childcare center on approximately 5.92 acres. The Project will provide a significant community benefit by providing 112 new affordable housing units, restricted to low and very low-income households on the site. Other on-site amenities include a pool, barbeque area, "tot" lot and a child care center. Further, a community recreation area of approximately 30,000 square feet will be provided on site, including a "tot" lot, community open space,

barbeques, a dog run, and a sports court and recreation area to serve residents. Additional benefits of the Project include increased property value, infrastructure improvements, increased sales tax revenue generated by new residents of the Project, job creation for development and operation of the Project, and the catalyst effect for additional development to occur in the area.

2. The proposed GPA will not be detrimental to the public interest, health, safety, convenience, and welfare of the County. The proposed GPA will facilitate development of a vacant site with a mixed-use affordable housing project and childcare facility, located in an urbanized area, on an arterial corridor with a full array of services available. Therefore, no detrimental effects to the public interest, health, safety, convenience or welfare are anticipated. Further, the compatibility of the proposed mixed-use affordable housing project and childcare center was evaluated in the Project Environmental Assessment (EA)/Initial Study (IS), which concluded that if the Project was developed in accordance with applicable County standards and appropriate mitigation measures, there would be no significant Project-related environmental impacts, and the site would be suitable for residential development. In addition, the Project will promote General Plan policies that encourage mixed-use affordable housing to be developed in proximity to transit, services and amenities to serve residents.
3. The proposed land use zoning district change is in the public interest, there will be a community benefit, and other existing and allowed uses will not be compromised. The proposed GPA will enable and facilitate an affordable housing project and childcare center and related off-site and on-site improvements which must be developed in conformance with the Development Code and other State and local development regulations. The proposed GPA of the land use designation of the property to SD-RES will advance the General Plan Housing Element, helping the County meet its RHNA goals by providing additional low and very low-income housing opportunities with amenities, in proximity to neighborhood services.
4. The proposed land use zoning district change will provide a reasonable and logical extension of the existing land use pattern in the surrounding area. The proposed GPA will allow efficient development of affordable housing on a vacant parcel that is adjacent to existing housing. The Project will introduce a mixed-use affordable housing project with childcare services that will be compatible with the existing neighborhood, and will infuse new improvements in an area that has not seen new development in many years. This new mixed use development is a logical extension of the existing single family development to the north and east, and will be more compatible with the existing neighborhood than potential development under the current General Commercial designation.
5. The proposed land use zoning district change does not conflict with provisions of the Development Code. The Project conforms to the size and location criteria specified for the SD-RES land use district, and all future construction will be required to conform to the SD-RES development standards and other applicable land use regulations.
6. The proposed land use zoning district change will not have a substantial adverse effect on surrounding property. An EA/IS has been prepared for the proposed Project which concluded that if the Project is developed in accordance with applicable County standards, and with the implementation of the recommended mitigation measures, the Project will not have a significant

adverse effect on the environment. This includes potential impacts on surrounding properties and potential impacts on the quality of the human environment. Standard conditions of approval of development projects in the County ensure that the development of the project will not adversely affect surrounding properties. These conditions have been included in the recommendation for approval of the Las Terrazas Affordable Housing and Childcare Project.

7. The affected site is physically suitable in terms of design, location, shape, size, operating characteristics, and the provision of public and emergency vehicle (e.g., fire and medical) access and public services and utilities (e.g., fire protection, police protection, potable water, schools, solid waste collection and disposal, storm drainage, wastewater collection, treatment, and disposal, etc.), to ensure that the proposed development will not endanger, jeopardize, or otherwise constitute a hazard to the property or improvements in the vicinity in which the property is located. The proposed Project conforms to all applicable development standards and various sections of the Development Code. Therefore, the design of the Project, in conjunction with the recommended conditions of approval, will ensure that the Project will not endanger, jeopardize, or otherwise constitute a hazard to the property or improvements in the vicinity or create significant noise, traffic, or other conditions or situations that may be objectionable or detrimental to other permitted and existing uses in the vicinity of the site. The location, size, design and character of the proposed development will enhance the existing conditions in the area, much to the benefit of the public interest and general welfare of the County.
8. The Project, including the proposed GPA will not have a significant adverse impact on the environment. An EA/IS has been prepared for the proposed Project, in accordance with the National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA). The EA/IS concluded that if the Project is developed in accordance with applicable County standards, and with the implementation of the recommended mitigation measures, the Project will not have a significant adverse effect on the environment. This includes potential impacts on surrounding properties and potential impacts on the quality of the human environment. The EA/IS has been reviewed by the County and reflects the County's independent judgment in making a decision on the Project. Therefore, a Finding of No Significant Impact (FONSI) and a Mitigated Negative Declaration (MND) should be adopted.

PLANNED DEVELOPMENT PERMIT FINDINGS

[SBCC 85.10.050]

1. The proposed development is consistent with the General Plan and any other applicable plan, because the proposed development conforms to the proposed General Plan Land Use Zoning designation, which is SD-RES. The proposed Project promotes the following goals and policies of both the General Plan Land Use Element and Housing Element by providing additional low and very low income housing opportunities in the County:

GOAL LU 1. The County will have a compatible and harmonious arrangement of land uses by providing a type and mix of functionally well-integrated land uses that are fiscally viable and meet general social and economic needs of the residents.

POLICY LU 1.1. Develop a well-integrated of residential and commercial uses that meet the social and economic needs of the residents in the three geographic regions of the County: Valley, Mountains, and Desert.

POLICY LU 1.2. The design and siting of new development will meet locational and development standards to ensure compatibility of the new development with adjacent land uses and community character.

GOAL H-1. A broad range of housing types in sufficient quantify, location and affordability levels to meet the lifestyle needs of current and future residents, including those with special needs.

POLICY H-2.4. Maintain incentives that can be offered when projects provide benefits to the community such as exceptional design quality, economic advantages, environmental sustainability, or other benefits that would not otherwise be realized.

POLICY H-4.5. Continue to form and strengthen partnerships with nonprofit organizations, public agencies, community-based organizations, and housing developers in order to increase housing opportunities for very lot and low income households.

POLICY V/H 1.1. Encourage housing types and designs that are compatible with residential land use patterns and the environment of the region, including single-family dwellings, mobile home parks/manufactured home land-leased communities, and apartments.

5.3.4 HOUSING PROGRAM #4: DENSITY INCENTIVES: An applicant for a density bonus may request that the County grant an incentive or concession. The County is obligated to grant the incentive or concession unless it makes the following two findings: 1) the concession or incentive is not required to provide for affordable housing, as defined in the Health and Safety Code or for rents for the targeted units required in the Development Code; or 2) the incentive or concession would have a specific adverse impact upon public health and safety or the physical environment for which there is no feasible method to mitigate or avoid the impact without rendering the development unaffordable to low and moderate income households.

Concessions or incentives may include the following: 1) a reduction in certain site development standards; 2) approval of mixed-use land uses not otherwise allowed by the Development Code in conjunction with the housing development subject to qualifying conditions in state law, 3) other regulatory incentives proposed by the applicant or the County that will result in identifiable, financially sufficient, and actual cost reductions; and/or 4) a direct financial contribution (writing down land costs, subsidizing the cost of construction, or participating in infrastructure cost) granted by the Board of Supervisors at its sole discretion.

2. The physical characteristics of the site have been adequately assessed and the site for the proposed development is adequate in terms of shape and size to accommodate the use and

all landscaping, loading areas, open spaces, parking areas, setbacks, walls and fences, yards, and other required features because the proposed development has been designed to adequately address the development standards of the Development Code. The proposed Project is consistent with Development Code Chapters 84.18 and 85.10, Planned Development Standards and Planned Development Standards and the Affordable Housing Incentives-Density Bonus Chapter 83.03. The site is adequate in shape and size to accommodate the proposed mixed-use affordable housing and childcare project, along with all associated landscaping, open space, setbacks, walls, fences, yards, noise attenuation measures, water, sewer and drainage improvements.

3. The site for the proposed Planned Development Permit has adequate access, in that the site design and development plan conditions consider the limitations of existing streets and highways and provide improvements to accommodate the anticipated requirements of the proposed development. The Project site is located on Valley Boulevard, an existing major arterial roadway. The Project conditions of approval incorporate street improvement and traffic control requirements to ensure that the Project will not adversely impact traffic conditions. The site design complies with requirements for safe ingress and egress of future residents, as well as emergency services.
4. Adequate public services and facilities exist, or will be provided, in compliance with the conditions of the development plan approval, to serve the proposed development and the approval of the proposed development will not result in a reduction of public services to properties in the vicinity, to be a detriment to public health, safety, and general welfare. The City of Colton will provide water and sanitary sewer service to the site. The developer will construct all public infrastructure necessary to serve the site. The Project will be served by the Colton Unified School District, and will pay school fees to the District to compensate for the Project's impact on District services.
5. The proposed development, as conditioned, will not have a substantial adverse effect on surrounding properties or their allowed use, and will be compatible with the existing and planned land use character of the surrounding area. The proposed Project will be self-contained and gated, with a design that minimizes any potential impact on neighboring properties. Also, street and drainage improvements, traffic control improvements and the bus shelter improvement associated with the Project will benefit the surrounding area. The architecture and landscaping and other amenities associated with the Project will be significant improvement to the existing neighborhood.
6. The improvements required by the proposed conditions of the development approval, and the manner of development adequately address all natural and manmade hazards associated with the proposed development and the Project site including fire, flood, seismic, and slope hazards. The Project has included specific studies addressing emergency access, geology, drainage, air quality, and noise. These and other potential hazards have been adequately addressed through the development review process by incorporating standard conditions of approval and mitigation measures identified in the environmental review process.
7. The proposed development carries out the intent of the Planned Development Permit provisions by providing a more efficient use of the land and an excellence of design greater

than that which would be achieved through the application of conventional development standards. The proposed Project provides much needed affordable housing, as well as child care for residents of the Project and neighboring residents. The Project has been designed to include multiple amenities, superior architectural design features, and LEED Silver certification that demonstrate efficient use of land through the Planned Development Permit process.

8. If the development proposes to mix residential and commercial uses, whether done in a vertical or horizontal manner, the residential use is designed in a manner that it is buffered from the commercial use and is provided sufficient amenities to create a comfortable and healthy residential environment and to provide a positive quality of life for the residents. The Project has been designed to include a single-story daycare center. The rest of the Project is residential, with common areas, shared and private open space, and multiple amenities that will create a comfortable and healthy environment, for a positive quality of life.
9. The proposed Planned Development Permit for the Project will not have a significant adverse impact on the environment. An EA/IS has been prepared for the proposed Project, in accordance with NEPA and CEQA. The EA/IS concluded that if the Project is developed in accordance with applicable County standards, and with the implementation of the recommended mitigation measures, the Project will not have a significant adverse effect on the environment. This includes potential impacts on surrounding properties and potential impacts on the quality of the human environment. The EA/IS has been reviewed by the County and reflects the County's independent judgment in making a decision on the Project. Therefore, a FONSI and an MND should be adopted.

EXHIBIT B

Conditions of Approval

CONDITIONS OF APPROVAL

Planned Development Permit (PDP) **Las Terrazas Mixed-Use Affordable Housing and Childcare Project**

GENERAL REQUIREMENTS

Operational Conditions and Procedures

LAND USE SERVICES/ Planning Division (909) 387-8311

1. **Project Approval Description.** This Planned Development (PD) Permit is approved in compliance with the San Bernardino County Code (SBCC), the following conditions of approval, the Preliminary Development Plan, Final Development Plan and any other required and approved reports and/or displays (e.g. elevations). This project includes a Preliminary and Final Development Plan for a 112-unit Mixed-Use Affordable Housing and Childcare Project that includes a 2,300-square foot community building, 43,218-square feet of common open space, a sports court/recreation area, 2,500-square foot childcare facility and a 4,000-square feet playground. The Project site is 5.92 acres in area and is located at the northwest corner of the intersection of Cypress Avenue and Valley Boulevard, in the sphere of influence of City of Colton. APN: 0274-182-34, 43 and 46. The project number is P201500538.
 - a) Project signs shall comply with SBCC Chapter 83.13.
 - b) Project landscaping shall comply with SBCC Chapter 83.10
 - c) Project parking shall comply with the approved Preliminary Development Plan.
 - d) Project construction shall comply with all applicable construction codes including the California Building Codes (CBC) and Uniform Fire Code (UFC).
2. **Incentives.** This is eligible for bonus density, incentives, or concessions, pursuant to SBCCC Sections 83.03.040 (b) (1) and 83.040 (c) (3), which provide for concessions to be granted in the form of relief from local regulations. The locally-adopted administrative section of the building code regarding expiration of building plans approvals is a local regulation. The County may grant concessions to an affordable housing project by allowing the Building Official the discretion to grant extension to building plan approvals, consistent with the State Building Code template.
3. **Revisions.** Any proposed change to the approved use/activity on the site (e.g. from childcare to another use; or any increase in the developed area of the site or any expansion or modification to the approved facilities, including changes to building locations, elevations, signs, parking allocation, landscaping, lighting, or a proposed change in the conditions of approval, including operational restrictions from those shown on the approved site plan shall require a Revision to an Approved Action be submitted to County Planning for review and approval.

4. Continuous Effect/Revocation. All of the conditions of this project are continuously in effect throughout the operative life of the project for the use approved. Failure of the property owner, tenant, applicant, developer or any operator (herein "developer") to comply with any or all of the conditions at any time may result in a public hearing and revocation of the approved land use; provided adequate notice, time and opportunity is provided to the property owner or other party to correct the non-complying situation.
5. Expiration. This project permit approval shall expire and become void if it is not "exercised" within three (3) years of the effective date of this approval, unless an extension of time is approved. The permit is deemed "exercised" when either:
 - a) The permittee has commenced actual construction or alteration under a validly issued building permit, or
 - b) The permittee has substantially commenced the approved land use or activity on the project site, for those portions of the project not requiring a building permit. (SBCC §86.06.060)

Occupancy of completed structures and operation of the approved and exercised land use remains valid continuously for the life of the project and the approval runs with the land, unless one of the following occurs:

- c) Construction permits for all or part of the project are not issued or the construction permits expire before the structure is completed and the final inspection is approved.
- d) The land use is determined by the County to be abandoned or non-conforming.
- e) The land use is determined by the County to be not operating in compliance with these conditions of approval, the County Code, or other applicable laws, ordinances or regulations. In these cases, the land use may be subject to a revocation hearing and possible termination.

PLEASE NOTE: This will be the ONLY notice given of the approval expiration date. The "developer" is responsible to initiate any Extension of Time application.

6. Extension of Time. Extensions of time to the expiration date (listed above or as otherwise extended) may be granted in increments each not to exceed an additional three years beyond the current expiration date. An application to request consideration of an extension of time may be filed with the appropriate fees no less than thirty days before the expiration date. Extensions of time may be granted based on a review of the application, which includes a justification of the delay in construction and a plan of action for completion. The granting of such an extension request is a discretionary action that may be subject to additional or revised conditions of approval or site plan modifications. (SBCC §86.06.060)
7. Development Impact Fees. Additional fees may be required prior to issuance of development permits. Fees shall be paid as specified in adopted fee ordinances.

8. Indemnification. In compliance with SBCC §81.01.070, the developer shall agree, to defend, indemnify, and hold harmless the County or its “indemnitees” (herein collectively the County’s elected officials, appointed officials (including Planning Commissioners), Zoning Administrator, agents, officers, employees, volunteers, advisory agencies or committees, appeal boards or legislative body) from any claim, action, or proceeding against the County or its indemnitees to attack, set aside, void, or annul an approval of the County by an indemnitee concerning a map or permit or any other action relating to or arising out of County approval, including the acts, errors or omissions of any person and for any costs or expenses incurred by the indemnitees on account of any claim, except where such indemnification is prohibited by law. In the alternative, the developer may agree to relinquish such approval.

Any condition of approval imposed in compliance with the County Development Code or County General Plan shall include a requirement that the County acts reasonably to promptly notify the developer of any claim, action, or proceeding and that the County cooperates fully in the defense. The developer shall reimburse the County and its indemnitees for all expenses resulting from such actions, including any court costs and attorney fees, which the County or its indemnitees may be required by a court to pay as a result of such action.

The County may, at its sole discretion, participate at its own expense in the defense of any such action, but such participation shall not relieve the developer of their obligations under this condition to reimburse the County or its indemnitees for all such expenses. This indemnification provision shall apply regardless of the existence or degree of fault of indemnitees. The developer’s indemnification obligation applies to the indemnitees’ “passive” negligence but does not apply to the indemnitees’ “sole” or “active” negligence or “willful misconduct” within the meaning of Civil Code Section 2782.

9. Project Account. The Job Costing System (JCS) account number is P201500538. This is an actual cost project with a deposit account to which hourly charges are assessed. Upon notice, the “developer” shall deposit additional funds to maintain or return the account to a positive balance. The “developer” is responsible for all expenses charged to this account. Processing of the project shall cease if it is determined that the account has a negative balance and that an additional deposit has not been made in a timely manner. A minimum balance of \$3,000.00 shall be in the project account at the time of project approval and the initiation of the Condition Compliance Review. Sufficient funds shall remain in the account to cover all estimated charges that may be made during each compliance review. All fees required for processing shall be paid in full prior to final inspection, occupancy and/or operation of each approved use in each approved structure or land use activity area.
10. NOD/MND/CDFW Fees. The California Environmental Quality Act (CEQA) requires that an environmental determination be prepared for this project. County staff completed an environmental initial study for this project and circulated it for review. A Mitigated Negative Declaration (MND) will be issued

indicating that all identified impacts were found to be mitigated below a level of significance. A Notice of Determination (NOD) of this finding is required to be filed with a fee (currently \$50). The California Department of Fish and Wildlife (CDFW) requires that an additional fee (currently \$2,210.25) be paid with the NOD filing, unless CDFG issues a determination of "No Biological Effect". The combined fees (\$2,260.25) are required to be paid to the Clerk of the Board with the NOD filing, and the project approval does not become effective until these fees are paid and the filing is posted.

11. Condition Compliance. In order to obtain construction permits for grading, or any new building, final inspection, the developer shall process a Condition Compliance Release Form (CCRF) for each respective building and/or phase of the development through County Planning in accordance with the directions stated in the Approval letter. County Planning shall release their holds on each phase of development by providing to County Building and Safety the following:
 - a) Grading Permits - a copy of the signed CCRF for grading/land disturbance and two "red" stamped and signed approved copies of the grading plans.
 - b) Building Permits - a copy of the signed CCRF for building permits and three "red" stamped and signed approved copies of the final approved site plan.
 - c) Final Inspection - a copy of the signed CCRF for final inspection of each respective building, after an on-site compliance inspection by County Planning.
12. Additional Permits. The property owner, developer, and land use operator are all responsible to ascertain and comply with all laws, ordinances, regulations and any other requirements of Federal, State, County and Local agencies as are applicable to the development and operation of the approved land use and project site. These include:
 - a) State of California: Regional Water Quality Control Board (RWQCB)
 - b) County of San Bernardino: Land Use Services - Building and Safety, Land Development, Public Health-Environmental Health Services, Special Districts, Public Works, County Fire, and
 - c) Local: Local Agency Formation Commission (LAFCO)
13. Continuous Maintenance. The property owner and "developer" shall continually maintain the property so that it is visually attractive and not dangerous to the health, safety and general welfare of both on-site users (e.g. employees) and surrounding properties. The "developer" shall ensure that all facets of the development are regularly inspected, maintained and that any defects are timely repaired. Among the elements to be maintained, include but are not limited to:
 - a) Annual maintenance and repair inspections shall be conducted for all structures, fencing/walls, walks, parking lots, driveways, and signs to assure proper structural, electrical and mechanical safety and a properly operating irrigation system.
 - b) Graffiti and debris shall be removed immediately with weekly maintenance.

- c) Landscaping shall be maintained in a continual healthy thriving manner at proper height for required screening. Drought-resistant, fire retardant vegetation shall be used where practicable. Where landscaped areas are irrigated, it shall be done in a manner designed to conserve water, minimizing aerial spraying.
 - d) Erosion control measures shall be maintained to reduce water run off, siltation, and promote slope stability.
 - e) Architectural controls shall be enforced by the property owner to maintain compatibility of design, materials, unfaded colors, and building mass.
 - f) Signage. All on-site signs, including posted area signs (e.g. "No Trespassing") shall be maintained in a clean readable condition at all times and all graffiti and vandalism shall be removed and repaired on a regular weekly basis. Signs on the site shall be of the size and general location as shown on the approved site plan or an approved sign plan.
 - g) Parking and on-site circulation requirements, including surfaces, all markings and traffic/directional signs shall be maintained in an unfaded condition as identified on the approved site plan. Any modification to parking and access layout requires County review and approval. The markings and signs shall be clearly defined and legible. These include parking spaces, disabled space and access path of travel, directional designations and signs, stop signs, pedestrian crossing, speed humps "No Parking" "carpool" and "Fire Lane" designations.
 - h) Garage Parking Spaces. All garage (carport) parking spaces shall at all times remain clear and uncluttered, to accommodate vehicle parking.
14. Performance Standards. The approved land uses shall operate in compliance with the general performance standards listed in the County Development Code Chapter 83.01, regarding air quality, electrical disturbance, fire hazards (storage of flammable or other hazardous materials), heat, noise, vibration and the disposal of liquid waste. In addition to these, none of the following shall be perceptible without instruments at any point outside the project boundaries at adjoining property lines:
- a) Odors: No offensive or objectionable odor
 - b) Emissions: No emission of dirt, dust, fly ash, and other forms of particulate matter.
 - c) Smoke: No smoke from any project source shall be emitted of a greater density than that described in No. 2 on the Ringelmann Chart (as published currently by the United States Bureau of Mines)
 - d) Radiation: No dangerous amount of radioactive emissions.
 - e) Toxic Gases: No emission of toxic, noxious or corrosive fumes of gases.
 - f) Glare: No intense glare that is not effectively screened from view at any point outside the project boundary.
15. Lighting. The glare from any luminous source of on-site lighting shall not exceed one-half (0.5) foot-candle at property line. All lighting shall be limited to that necessary for maintenance activities and security purposes. No light shall project onto adjacent roadways in a manner that interferes with on-coming traffic. All

signs proposed by this project shall be lit by steady, stationary, shielded light directed at the sign, or by light inside the sign.

16. Clear Sight Triangle. Adequate visibility for vehicular and pedestrian traffic shall be provided at clear sight triangles at all 90 degree angle intersections of public rights-of-way and private driveways. All signs, structures and landscaping located within any clear sight triangle shall comply with the height and location requirements specified by SBCC§ 83.02.030 or as otherwise required by the County Traffic Division.
17. Underground Utilities. There shall be no new above ground power or communication lines extended to the site. All new utilities shall be placed underground in a manner, which avoids disturbing any existing/natural vegetation or the site appearance. Existing utilities on Valley Boulevard frontage shall also be placed underground in coordination with the utility provider.
18. Construction Hours. Construction will be limited to the hours of 7:00 a.m. to 7:00 pm., Monday through Saturday in accordance with the County of San Bernardino Development Code standards. No construction activities are permitted outside of these hours or on Sundays and Federal holidays.

LAND USE SERVICES/ Code Enforcement Division (909) 387-8311

19. Enforcement. If any County enforcement activities are required to enforce compliance with the conditions of approval, the County will charge the property owner for such enforcement activities in accordance with the SBCC Schedule of Fees.
20. Weed Abatement. The applicant shall comply with San Bernardino County weed abatement regulations [SBCC §23.031-23.043] and periodically clear the site of all non-complying vegetation. This includes removal of Russian thistle (tumbleweeds).

PUBLIC HEALTH/ Environmental Health Services (DEHS) (800) 442-2283

21. Noise. Noise level shall be maintained at or below County Development Code Standards, Section 83.01.080. For information, please call DEHS at 1-800-442-2283.
22. Refuse Storage/Removal. All refuse generated at the premises shall at all times be stored in approved containers and shall be placed in a manner so that environmental public health nuisances are minimized. All refuse not containing garbage shall be removed from the premises at least 1 time per week, or as often as necessary to minimize public health nuisances. **Refuse containing garbage shall be removed from the premises at least 2 times per week**, or as often as necessary to minimize public health nuisances, by a permitted hauler to an approved solid waste facility in conformance with San Bernardino County Code Chapter 8, Section 33.0830 et. seq. For information, please call DEHS/LEA at: 1-800-442-2283.

COUNTY FIRE/ Community Safety (909) 386-8400

23. Fire Jurisdiction. The above referenced project is under the jurisdiction of the San Bernardino County Fire Department herein ("Fire Department"). Prior to any construction occurring on any parcel, the developer shall contact the Fire Department for verification of current fire protection requirements. All new construction shall comply with the current Uniform Fire Code requirements and all applicable statutes, codes, ordinances and standards of the Fire Department.
24. Additional Requirements. In addition to the Fire requirements stated herein, other on site and off site improvements may be required which cannot be determined from tentative plans at this time and would have to be reviewed after more complete improvement plans and profiles have been submitted to this office.
25. Fire Extinguishers. Hand portable fire extinguishers are required. The location, type, and cabinet design shall be approved by the Fire Department.
26. Permit Expiration. Construction permits, including Fire Condition Letters, shall automatically expire and become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time the work has commenced. Suspension or abandonment shall mean that no inspection by the Department has occurred within 180 days of any previous inspection. After a construction permit or Fire Condition letter becomes invalid and before such previously-approved work recommences, a new permit for such work may be issued, provided no changes have been made or will be made in the original construction documents for such work, and provided further that such suspension or abandonment has not exceeded one year. A request to extend the Fire Condition Letter or Permit may be marked in writing PRIOR to the expiration date justifying the reason that the Fire Condition Letter should be extended.

LAND USE SERVICES/ Land Development Division – Drainage Section (909) 387-8311

27. Tributary Drainage. Adequate provisions shall be made to intercept and conduct the tributary off site - on site drainage flows around and through the site in a manner, which will not adversely affect adjacent or downstream properties at the time the site is developed.
28. Natural Drainage. The natural drainage courses traversing the site shall not be occupied or obstructed.
29. Additional Drainage Requirements. In addition to drainage requirements stated herein, other "on-site" and/or "off-site" improvements may be required which cannot be determined from tentative plans at this time and would have to be reviewed after more complete improvement plans and profiles have been submitted to this office.

30. Continuous BMP Maintenance. The property owner/"developer" is required to provide periodic and continuous maintenance of all Best Management Practices (BMP) devices/facilities listed in the County approved Water Quality Management Plan (WQMP) for the project. This includes but is not limited to, filter material replacement and sediment removal, as required to assure peak performance of all BMPs. Furthermore, such maintenance activity will require compliance with all Local, State, or Federal laws and regulations, including those pertaining to confined space and waste disposal methods in effect at the time such maintenance occurs.
31. BMP Enforcement. In the event the property owner/"developer" (including any successors or assigns) fails to accomplish the necessary BMP maintenance within five (5) days of being given written notice by County Public Works, then the County shall cause any required maintenance to be done. The entire cost and expense of the required maintenance shall be charged to the property owner and/or "developer", including administrative costs, attorney's fees and interest thereon at the rate authorized by the County Code from the date of the original notice to the date the expense is paid in full.

PUBLIC WORKS / Solid Waste Management (909) 386-8701

32. Recycling Storage Capacity. The developer shall provide equal space and storage bins for both refuse and recycling materials. This requirement is to assist the County in compliance with the recycling requirements of AB 2176.
33. Mandatory Commercial Recycling. Beginning July 1, 2012, all businesses defined to include a commercial or public entity that generates 4 or more cubic yards of commercial solid waste a week or is a multi-family residential dwelling of 5 units or more to arrange for recycling services. The County is required to monitor business recycling and will require the business to provide recycling information. This Requirement is to assist the County in compliance with the recycling requirements of AB 341.
34. Mandatory Trash Service. This project falls within a Uniform Handling Service area. If uniform handling service is implemented for all or part of a particular franchise area, all owners of a dwelling or a commercial or industrial unit within the uniform handling area who are required to have uniform handling service shall, upon notice thereof, be required to accept uniform handling service from the grantee holding a franchise agreement and pay the rate of such services. This requirement is a stipulation of County Code Title 4, Division 6, Chapter 5, Section 46.0501.
35. Mandatory Organics Recycling – As of April 2016, the State of California through AB 1826 (Enacted October 2014), requires businesses that generate eight (8) cubic yards of organics per week to recycle. A business generating organic waste shall arrange for the recycling services in a manner that is consistent with state and local laws and requirements, including a local ordinance or local jurisdiction's franchise agreement, applicable to the collection, handling, or recycling of solid

and organic waste or arrange for separate organic waste collection and recycling services, until the local ordinance or local jurisdiction's franchise agreement includes organic waste recycling services. A business that is a property owner may require a lessee or tenant of that property to source separate their organic waste to aid in compliance. **Additionally, all businesses that contract for gardening or landscaping services must stipulate that the contractor recycle the resulting gardening or landscaping waste.** Residential multifamily dwellings of five (5) or more units are required to recycle organics though not required to arrange for recycling services specifically for food waste. Applicant will be required to report to the County on efforts to recycle organics materials once operational.

PRIOR TO ISSUANCE OF GRADING PERMITS OR LAND DISTURBING ACTIVITIES

LAND USE SERVICES/ Building and Safety Division (909) 387-8311

36. Retaining Wall Plans. Submit plans and obtain separate building permits for any required walls or retaining walls.
37. Geology Report. A geology report shall be submitted to the Building and Safety Division for review and approval by the County Geologist and fees paid for the review prior to final project approval.
38. Geotechnical (Soil) Report. A geotechnical (soil) report shall be submitted to the Building and Safety Division for review and approval prior to issuance of grading permits.
39. Grading Plans. Grading plans shall be submitted to Building and Safety for review and approval prior to grading/land disturbance of more than 50 Cu Yards.
40. Demolition Permit. Obtain a demolition permit for any building/s or structures to be demolished. Underground structures must be broken in, back-filled and inspected before covering.
41. Erosion & Sediment Control Plan: An erosion and sediment control plan shall be submitted to and approved by the Building Official.
42. Erosion Control Installation. Erosion control devices must be installed at all perimeter openings and slopes. No sediment is to leave the job site.
43. Storm Water *Prior to issuance of Grading or Building Permit, the Project shall obtain coverage under the General Permit for Discharges of Storm Water Associated with Construction Activity Construction General Permit Order 2009-0009-DWQ, which includes filing a Notice of Intent (NOI) and preparation of a Storm Water Pollution Prevention Plan (SWPPP), and shall provide evidence to the County of compliance with Development Code Section 85.11.030, which requires preparation of Soil Erosion Pollution Prevention Plan and inspection.*
Mitigation Measure HYD-1 - Prior to Grading Permits/Planning

44. Regional Board Permit: CONSTRUCTION projects involving one or more acres must be accompanied by Regional Board permit WDID #. Construction activity includes clearing, grading, or excavation that results in the disturbance of at least one (1) acre of land total.

LAND USE SERVICES/ Planning Division (909) 387- 8311

45. AQ-1: Dust Control Plan. *Prior to Grading Permit or Building Permit issuance, the "developer" shall prepare, submit for review, and obtain approval from County Planning of both a Dust Control Plan (DCP) consistent with SCAQMD guidelines and a signed letter agreeing to include in any remediation or construction contracts/subcontracts a requirement that Project contractors adhere to the DCP requirements. The DCP shall include the following requirements:*
- a) Exposed soil shall be kept continually moist to reduce fugitive dust during all grading and construction activities, through application of water sprayed a minimum of three times each day during dry weather. Watering, with complete coverage of disturbed areas, shall occur at least three times a day, preferably in the mid-morning, afternoon, and after work is done for the day.*
 - b) The contractor shall ensure that traffic speeds on unpaved roads and the Project site areas are reduced to 15 miles per hour or less to reduce PM₁₀ and PM_{2.5} fugitive dust haul road emissions.*
 - c) Any portion of the site to be graded shall be pre-watered to a depth of three feet prior to the onset of grading activities.*
 - d) The contractor shall ensure that during high wind conditions (i.e., wind speeds exceeding 25 mph), areas with disturbed soil shall be watered hourly and activities on unpaved surfaces shall cease until wind speeds no longer exceed 25 mph.*
 - e) Any area that would remain undeveloped for a period of more than 30 days shall be stabilized using either chemical stabilizers and/or a desert wildflower mix hydroseed on the affected portion of the site.*
 - f) The contractor shall ensure that storage piles that are to be left in place for more than three working days shall be sprayed with a non-toxic soil binder, covered with plastic or revegetated.*
 - g) The contractor shall ensure that imported fill and exported excess cut shall be adequately watered prior to transport, covered during transport, and watered prior to unloading.*
 - h) The contractor shall ensure that storm water control systems shall be installed to prevent off-site mud deposition.*
 - i) All trucks hauling dirt away from the site shall be covered.*
 - j) The contractor shall ensure that construction vehicle tires shall be washed, prior to leaving the Project site.*
 - k) The contractor shall ensure that rumble plates shall be installed at construction exits from dirt driveways.*
 - l) The contractor shall ensure that paved access driveways and streets shall be washed and swept daily when there are visible signs of dirt track-out.*

m) Street sweeping shall be conducted daily when visible soil accumulations occur along site access roadways to remove dirt dropped or tracked-out by construction vehicles. Site access driveways and adjacent streets shall be washed daily, if there are visible signs of any dirt track-out at the conclusion of any workday and after street sweeping.

n) The contractor shall post the phone number of the SCAQMD for complaints regarding excessive fugitive dust generation.

Mitigation Measure AQ-1 - Prior to Grading Permits/Planning

46. *AQ-3: Odors Reporting.* *Prior to site disturbance and grading activities, the contractor shall provide a cell phone number, assigned to a superintendent on the job, to members of the public residing abutting the project site along the north and east property boundaries and to members of the public residing on the east side of Cypress Avenue, between Valley Boulevard and Jackson Street for reporting odors associated with the project during site disturbance and or grading/construction activities.*

Mitigation Measure AQ-3 - Prior to Grading Permits/Planning

47. *Cul-1 Cultural Resources.* *The following notes shall be included on the grading plan and in the grading contract: In the event that buried cultural resources are discovered during construction, operations shall stop in the immediate vicinity of the find and a qualified archaeologist shall be consulted to determine whether the resource requires further study. The qualified archaeologist and shall make recommendations to the Lead Agency on the measures that shall be implemented to protect the discovered resources, including but not limited to excavation of the finds and evaluation of the finds in accordance with Section 15064.5 of the CEQA Guidelines. Potentially significant cultural resources consist of but are not limited to stone, bone, fossils, wood, or shell artifacts or features, including hearths, structural remains, or historic dumpsites. Any previously undiscovered resources found during construction within the project area should be recorded on appropriate DPR forms and evaluated for significance in terms of CEQA criteria.*

Mitigation Measure CUL-1 - Prior to Grading Permits/Planning

a. If the resources are determined to be unique historic resources as defined under Section 15064.5 of the CEQA Guidelines, mitigation measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds.

b. No further grading shall occur in the area of the discovery until the Lead Agency approves the measures to protect these resources. Any archaeological artifacts recovered as a result of mitigation shall be donated to a qualified scientific institution approved by the Lead Agency where they would be afforded long-term preservation to allow future scientific study.

48. *Cul-2 Paleo Monitor.* *If the subsurface excavations for this project are proposed to exceed depths of 10 feet below surface, a qualified County-approved*

paleontological monitor shall be retained to observe such excavations, which may breach the older underlying sediments and have a moderate potential to produce fossilized materials. In this situation, a detailed Mitigation Monitoring Plan (MMP) or Paleontological Resource Impact Management Plan (PRIMP) should be prepared in order to set forth the observation, collection, and reporting duties of the paleontological monitor. Additional mitigation measures and procedures will be outlined in the MMP or PRIMP as needed.

Mitigation Measure CUL-2 - Prior to Grading Permits/Planning

49. *Cul-3 Human Remains.* *The following note shall be included on the grading plan and in the grading contract: If human remains are encountered, State Health and Safety Code Section 7050.5 states that work shall stop immediately and that no further disturbance shall occur in the vicinity until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. The County Coroner must be notified of the find immediately. If the remains are determined to be prehistoric, the Coroner will notify the Native American Heritage Commission (NAHC), which will determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 24 hours of notification by the NAHC. The MLD may recommend scientific removal and nondestructive analysis of human remains and items associated with Native American burials. Contact the County Coroner at 175 South Lena Road, San Bernardino, CA 92415-0037 or (909) 387-2543.*

Mitigation Measure CUL-3 - Prior to Grading Permits/Planning

50. *GEO-1 Geotechnical Review.* *Once project grading plans are prepared and available, the project geotechnical consultant shall review the grading plans relative to their recommendations in the Updated Geotechnical Investigation dated September 5, 2015 prepared by Geocon West, Inc. The geotechnical consultant shall prepare a Grading Plan Review Report, which shall be submitted the County for review and approval prior to grading permit issuance.*

Mitigation Measure GEO-1 - Prior to Grading Permits/Planning

51. *HAZ-1 DTSC Approval.* *Prior to the issuance of a grading permit, the Project Applicant shall provide documentation to the County of San Bernardino indicating DTSC approval of a plan containing all corrective measures required for the Project to remove contaminated soil.*

Mitigation Measure HAZ-1 - Prior to Grading Permits/Planning

52. *NOI-2 Construction Noise.* *The following notes shall be included on grading and construction plans and in associated contract: Implement standard construction noise controls including:*

- Adhere to permissible hours of operation consistent with County requirements;*
- Maintain equipment in proper operating conditions, including mufflers; and*
- Place staging areas at farthest locations from noise sensitive receivers.*

Mitigation Measure NOI-2 - Prior to Grading Permits/Planning

53. *NOI-3 Equipment Staging.* *The following note shall be included on the grading plan and in the grading contract: The construction contractor shall locate equipment staging in areas that will create greatest distance between construction-related noise sources and noise sensitive receptors nearest the project site during all project construction activities.*

Mitigation Measure NOI-3 - Prior to Grading Permits/Planning

54. *GHG – Construction Standards.* The developer shall submit for review and obtain approval from County Planning of a signed letter *agreeing* to include as a condition of all construction contracts/subcontracts requirements to reduce impacts to GHG and submitting documentation of compliance. The developer/construction contractors shall do the following:
- a) Implement the approved Coating Restriction Plans.
 - b) Select construction equipment based on low-emissions factors and high-energy efficiency. All diesel/gasoline-powered construction equipment shall be replaced, where possible, with equivalent electric or CNG equipment.
 - c) Grading plans shall include the following statements:
 - “All construction equipment engines shall be properly tuned and maintained in accordance with the manufacturers specifications prior to arriving on site and throughout construction duration.”
 - “All construction equipment (including electric generators) shall be shut off by work crews when not in use and shall not idle for more than 5 minutes.”
 - d) Schedule construction traffic ingress/egress to not interfere with peak-hour traffic and to minimize traffic obstructions. Queuing of trucks on and off site shall be firmly discouraged and not scheduled. A flag person shall be retained to maintain efficient traffic flow and safety adjacent to existing roadways.
 - e) Recycle and reuse construction and demolition waste (e.g. soil, vegetation, concrete, lumber, metal, and cardboard) per County Solid Waste procedures.
 - f) The construction contractor shall support and encourage ridesharing and transit incentives for the construction crew and educate all construction workers about the required waste reduction and the availability of recycling services.

LAND USE SERVICES/ Land Development – Drainage Section (909) 387-8311

55. Drainage Improvements. A Registered Civil Engineer shall investigate and design adequate drainage improvements to intercept and conduct the off-site and on-site drainage flows around and through the site in a manner, which will not adversely affect adjacent or downstream properties. Submit drainage study for review and obtain approval. A \$550 deposit for drainage study review will be collected upon submittal to the Land Development Division. Deposit amounts are subject to change in accordance with the latest approved fee schedule.
56. Drainage Easements. Adequate San Bernardino County Drainage Easements (minimum fifteen [15] feet wide) shall be provided over the natural drainage courses, drainage facilities/or concentration of runoff from the site. Proof of recordation shall be provided to the Land Development Division.
57. FEMA Flood Zone. The Project is located within Flood Zone D according to FEMA Panel Number 8679H dated 08/28/2008. Flood Hazards are undetermined in this area but possible. The requirements may change based on the most current Flood Map prior to issuance of grading permit.
58. Topo Map. A topographic map shall be provided to facilitate the design and review of necessary drainage facilities.
59. Grading Plans. Grading plans shall be submitted for review and approval obtained. An \$806 deposit for grading plan review will be collected upon submittal to the Land Development Division. Deposit amounts are subject to change in accordance with the latest approved fee schedule.
60. WQMP. A completed Water Quality Management Plan (WQMP) shall be submitted for review and approval obtained. A \$2,650 deposit for WQMP review will be collected upon submittal to the Land Development Division. Deposit amounts are subject to change in accordance with the latest approved fee schedule. The report shall adhere to the current requirements established by the Santa Ana Watershed Region. Copies of the WQMP guidance and template can be found at: (<http://www.sbcounty.gov/dpw/land/npdes.asp>)
61. WQMP Inspection Fee. The developer shall provide a \$3,600 deposit to Land Development Division for inspection of the approved WQMP. Deposit amounts are subject to change in accordance with the latest approved fee schedule.

COUNTY FIRE/ Community Safety (909) 386-8400

62. Primary Access Paved. Prior to building permits being issued to any new structure, the primary access road shall be paved or an all-weather surface and shall be installed as specified in the General Requirement conditions, including width, vertical clearance and turnouts, if required.

63. Fire Lanes. The applicant shall submit a fire lane plan to the Fire Department for review and approval. Fire lane curbs shall be painted red. The "No Parking, Fire Lane" signs shall be installed on public/private roads in accordance with the approved plan. Standard 901.4.

PUBLIC WORKS/ Solid Waste Management (909) 386-8701

64. USS-1 Solid Waste. *Prior to issuance of the Grading or Building Permit, the Project shall prepare and submit for review to the County's Solid Waste Management Division a Construction and Demolition Solid Waste Management Plan. The Plan shall:*

- *Include measures to ensure that a minimum of 50 percent of the construction waste is diverted;*
- *Estimate the amount of tonnage to be disposed and diverted during construction; and*
- *Provide evidence of what tonnage was actually diverted and disposed of. Disposal and/or diversion receipts or certifications shall be provided to the County, as part of the Plan.*

Mitigation Measure USS-1 - Prior to Grading Permits/Planning

PUBLIC WORKS – Surveyor (909) 387-8149

65. If any activity on this project will disturb **any** land survey monumentation, including but not limited to vertical control points (benchmarks), said monumentation shall be located and referenced by or under the direction of a licensed land surveyor or registered civil engineer authorized to practice land surveying **prior** to commencement of any activity with the potential to disturb said monumentation, and a corner record or record of survey of the references shall be filed with the County Surveyor pursuant to Section 8771(b) Business and Professions Code.
66. Pursuant to Sections 8762(b) and/or 8773 of the Business and Professions Code, a Record of Survey or Corner Record shall be filed under any of the following circumstances:
- a. Monuments set to mark property lines or corners;
 - b. Performance of a field survey to establish property boundary lines for the purposes of construction staking, establishing setback lines, writing legal descriptions, or for boundary establishment/mapping of the subject parcel;
 - c. Any other applicable circumstances pursuant to the Business and Professions Code that would necessitate filing of a Record of Survey.

PRIOR TO ISSUANCE OF BUILDING PERMITS

LAND USE SERVICES/ Building and Safety Division (909) 387-8311

67. **Construction Plans.** Any building, sign, or structure to be constructed or located on site, will require professionally prepared plans based on the most current County and California Building Codes, submitted for review and approval by the Building and Safety Division.

LAND USE SERVICES/ Planning Division (909) 387-8311

68. **AQ-2: HVAC Requirements.** *The buildings will be equipped with a central heating, ventilation, and air conditioning (HVAC) system that includes high efficiency filters for particulates (Minimum Efficiency Reporting Value [MERV] 16). Any windows within a 500' distance to I-10 and facing the freeway are required to be inoperable, except as required for emergency egress. The project shall include tree plantings between residential dwellings and the freeway. To ensure long-term maintenance and replacement of the MERV filters in the individual units, the following shall occur:*

a) Developer, sale, and/or rental representative shall provide notification to all affected tenants/residents of the potential health risk for affected units.

b) For rental units, the owner/property manager shall maintain and replace MERV filters in accordance with the manufacture's recommendations. The property owner shall keep a maintenance log schedule with proof of the filter replacements. Such log shall be available for inspection by the County of San Bernardino Building and Safety Department. The property owner shall inform renters of increased risk of exposure to diesel particulates when windows are open.

c) Outdoor active-use public recreational areas, community center, and child care center associated with development project shall be located as far north in the project site plan as possible to distance these areas from the effects on Interstate 10 and the rail line.

Mitigation Measure AQ-2 - Prior to Building Permits/Planning

69. *Prior to the issuance of building permits, the Project applicant shall conduct an exterior-to-interior noise analysis based on building plans and include any building features necessary to achieve an interior noise level of 45 CNEL or less within residential spaces.*

Mitigation Measure NOI-1 - Prior to Building Permits

70. **Irrigation Plans.** Irrigation plans shall be designed for all common area irrigation to be operated by a computerized irrigation system, which includes an ET based controller capable of reading current weather data and making automatic adjustments to independent run times for each irrigation valve, based on changes in temperature, solar radiation, relative humidity, rain and wind. In addition, the computerized irrigation system shall be equipped with flow sensing capabilities, thus automatically shutting down the irrigation system in the event of a mainline break or broken head. These features will assist in conserving water, eliminating

the potential of slope failure due to mainline breaks and eliminating over-watering and flooding due to pipe and/or head breaks.

71. Landscape and Irrigation Plan. Landscape and Irrigation Plans shall be prepared in conformance with Chapter 83.10, Landscaping Standards, of the County Development Code. The developer shall submit four copies of a landscape and irrigation plan to County Planning, in accordance with the requirements for a landscape documentation package, pursuant to SBCC Section 83.10.050.
72. Lighting Plan. The developer shall submit a Lighting Plan for review and obtain approval from County Planning prior to the issuance of a building permit. All lighting shall be designed in a manner consistent with the approved Preliminary Development Plan:
- a) Lighting shall be required on all new development for the purpose of providing illumination to ensure public safety and security. Lighting fixtures shall be functional, coordinated and visually attractive. Lighting shall be required at the following locations:
 - Pedestrian walkways and plazas.
 - Building entries, driveway entries and parking areas.
 - Hazardous locations, such as changes of grade and stairways, shall be well-lit with lower-level supplemental lighting or additional overhead units.
 - b) Lights shall be placed and designed so as not to cause glare or excessive light spillage on neighboring sites or public roadways.
 - Low intensity lamps shall be used especially at the project edge.
 - All lighting shall be hooded and designed with sharp-cutoff luminaires to reflect away from adjoining properties and public thoroughfares.
 - c) All parking lot and driveway lighting shall provide uniform illumination at a minimum level of 0.5 foot candle.
 - d) All light fixtures shall be concealed source fixtures except for pedestrian-oriented accent lights.
 - e) Security lighting fixtures shall not project above the fences or roofline of the building and shall be shielded. The shields shall be painted to match the surface to which they are attached. Security lighting fixtures shall be substituted for parking lot or walkway lighting fixtures and are restricted to lighting only loading and storage locations, or other similar service areas.
 - f) Exterior wall-mounted floodlights are expressly prohibited except for security lighting in areas as noted above.
 - g) Lighting of building faces is permitted.
 - h) The design of all lighting fixtures and their structural support shall be architecturally compatible with the surrounding buildings.
 - j) Walkway lighting fixtures shall have an overall height not to exceed twelve (12) feet.
 - k) Parking lot fixtures shall have an overall height not to exceed thirty-eight (38) feet or the height of adjacent buildings, whichever is less.

- l) When walkway lighting is provided primarily by low fixtures, there shall be sufficient peripheral lighting to illuminate the immediate surroundings to ensure public safety. Shatterproof coverings are recommended.

73. GHG – Design Standards. The developer shall submit for review and obtain approval from County Planning that the following measures have been incorporated into the design of the project. These are to reduce potential project impacts on greenhouse gases (GHGs): Proper installation of the approved design features and equipment shall be confirmed by County Building and Safety prior to final inspection of each structure.

- a) Meet Title 24 Energy Efficiency requirements implemented July 1, 2014
The Developer shall document that the design of the proposed structures meets the current Title 24 energy-efficiency requirements. County Planning shall coordinate this review with the County Building and Safety. Any combination of the following design features may be used to fulfill this requirement, provided that the total increase in efficiency meets or exceeds the cumulative goal (100%+ of Title 24) for the entire project (Title 24, Part 6 of the California Code of Regulations; Energy Efficiency Standards for Residential and Non Residential Buildings, as amended January 24, 2013:

- Incorporate dual paned or other energy efficient windows,
- Incorporate energy efficient space heating and cooling equipment,
- Incorporate energy efficient light fixtures, photocells, and motion detectors,
- Incorporate energy efficient appliances,
- Energy efficient domestic hot water systems,
- Incorporate solar panels into the electrical system,
- Incorporate cool roofs/light colored roofing,
- Incorporate other measures that will increase energy efficiency.
- Increase insulation to reduce heat transfer and thermal bridging.
- Limit air leakage throughout the structure and within the heating and cooling distribution system to minimize energy consumption.

- b) Plumbing. All plumbing shall incorporate the following:

- All showerheads, lavatory faucets, and sink faucets shall comply with the California Energy Conservation flow rate standards.

- Low flush toilets shall be installed where applicable as specified in California State Health and Safety Code Section 17921.3.
 - All hot water piping and storage tanks shall be insulated. Energy efficient boilers shall be used.
 - If possible, utilize grey water systems and dual plumbing for recycled water.
- c) Lighting. Lighting design for building interiors shall support the use of:
- High efficient lighting LED, compact fluorescent luminaries or equivalent.
 - Natural day lighting through site orientation and the use of reflected light.
 - Skylight/roof window systems.
 - Light colored building materials and finishes shall be used to reflect natural and artificial light with greater efficiency and less glare.
 - Occupancy sensor controlled lighting in conjunction a with multi-zone programmable dimming system shall be used to control lighting to maximize the energy efficiency of lighting requirements at various times of the day.
 - The developer shall ensure that a minimum of 2.5 percent of the project's electricity needs is provided by on-site solar panels.
- d) Building Design. Building design and construction shall incorporate the following elements:
- Orient building locations to best utilize natural cooling/heating with respect to the sun and prevailing winds/natural convection to take advantage of shade, day lighting and natural cooling opportunities.
 - Utilize natural, low maintenance building materials that do not require finishes and regular maintenance.
 - Roofing materials shall have a solar reflectance index of 78 or greater.
 - All supply duct work shall be sealed and leak-tested. Oval or round ducts shall be used for at least 75 percent of the supply duct work, excluding risers.
 - Energy Star or equivalent equipment shall be installed.

- A building automation system including outdoor temperature/humidity sensors will control public area heating, vent, and air conditioning units
- e) Landscaping. The developer shall submit for review and obtain approval from County Planning of landscape and irrigation plans that are designed to include drought tolerant and smog tolerant trees, shrubs, and groundcover to ensure the long-term viability and to conserve water and energy. The landscape plans shall include shade trees around main buildings, particularly along southern and western elevations, where practical.
- f) The developer shall submit irrigation plans that are designed, so that all common area irrigation areas shall be capable of being operated by a computerized irrigation system, which includes either an on-site weather station, ET gauge or ET based controller capable of reading current weather data and making automatic adjustments to independent run times for each irrigation valve based on changes in temperature, solar radiation, relative humidity, rain and wind. In addition, the computerized irrigation system shall be equipped with flow sensing capabilities, thus automatically shutting down the irrigation system in the event of a mainline break or broken head. These features will assist in conserving water, eliminating the potential of slope failure due to mainline breaks and eliminating over-watering and flooding due to pipe and/or head breaks.
- g) Recycling. Exterior storage areas for recyclables and green waste shall be provided. Adequate recycling containers shall be located in public areas. Construction and operation waste shall be collected for reuse and recycling.
- h) Transportation Demand Management (TDM) Program. The project shall include adequate bicycle parking near building entrances to promote cyclist safety, security, and convenience. If available, mass transit facilities shall be provided (e.g. bus stop bench/shelter). The developer shall publish ride-sharing information for ride-sharing vehicles and provide a website or message board for coordinating rides. The Program shall ensure that appropriate bus route information is available to tenants and homeowners.

LAND USE SERVICES/ Code Enforcement (909) 387-8311

75. Sign Permit. Prior to installation of any freestanding, wall, roof, projecting or monument sign, an approved sign permit is required.

PUBLIC HEALTH/ Environmental Health Services (DEHS) (800) 442-2283

76. Water. Water purveyor shall be the City of Colton.

77. Water Letter. Applicant shall procure a verification letter from the **City of Colton**. This letter shall state whether or not water connection and service shall be made available to the project by the water agency. This letter shall reference the Assessor's Parcel Number. For projects with current active water connections, a copy of water bill with project address may suffice. For information, contact the Water Section at 1-800-442-2283.
78. Sewer. Method of sewage disposal shall be the **City of Colton**.
79. Wastewater Verification. Applicant shall procure a verification letter from the **City of Colton**. This letter shall state whether or not sewer connection and service shall be made available to the project by the sewerage agency. The letter shall reference the Assessor's Parcel Number.
80. Public Swimming Pools. Plans for swimming pool(s) and associated restroom facilities shall be reviewed and approved by DEHS. For information, call DEHS/Plan Check at: 1-800-442-2283.

LAND USE SERVICES / Land Development Division – Road Section (909) 387-8311

81. Road Dedication/Improvement. The developer shall submit for review and obtain approval from the Land Use Services Department the following dedications and plans for the listed required improvements, designed by a Registered Civil Engineer (RCE), licensed in the State of California.

Valley Blvd (Major Highway, Variation – 120')

- Road Dedication. A 6 foot grant of easement is required to provide a half-width right-of-way of 56'.
- Street Improvements. Design curb and gutter with match-up paving 42 feet from centerline.
- Sidewalks. Design sidewalk per County Standard 109 Type B.
- Curb Returns and Sidewalk Ramps. Curb returns and sidewalk ramps shall be designed per County Standard 110. Adequate easement shall be provided to ensure sidewalk improvements are within Public right-of-way.
- Driveway Approach. Design driveway approach per San Bernardino County Standard 129B. and located per Standard 130.

Cypress St (Collector Street – 66')

- Street Improvements. Design curb and gutter with match up paving 22 feet from centerline.
 - Sidewalks. Design sidewalks per County Standard 109 Type "B".
 - Driveway Approach. Design driveway approach per San Bernardino County Standard 129B, and located per Standard 130.
82. Road Standards and Design. All required street improvements shall comply with latest San Bernardino County Road Planning and Design Standards and the San

Bernardino County Standard Plans. Road sections shall be designed to Valley Road Standards of San Bernardino County, and to the policies and requirements of the County Department of Public Works and in accordance with the General Plan, Circulation Element.

83. Street Improvement Plans. The developer shall submit for review and obtain approval of street improvement plans prior to construction. Final plans and profiles shall indicate the location of any existing utility facility or utility pole which would affect construction, and any such utility shall be relocated as necessary without cost to the County. Street improvement plans shall not be approved until all necessary right-of-way is acquired.
84. Construction Permits. Prior to installation of road and drainage improvements, a construction permit is required from County Public Works, Transportation Operations Division, Permit Section, (909) 387-8046, as well as other agencies prior to work within their jurisdiction. Submittal shall include a materials report and pavement section design in support of the section shown on the plans. Applicant shall conduct classification counts and compute a Traffic Index (TI) Value in support of the pavement section design
85. Encroachment Permits. Prior to installation of driveways, sidewalks, etc., an encroachment permit is required from County Public Works, Transportation Operations Division, Permit Section, (909) 387-8046, as well as other agencies prior to work within their jurisdiction.
86. Soils Testing. Any grading within the road right-of-way prior to the signing of the improvement plans shall be accomplished under the direction of a soils testing engineer. Compaction tests of embankment construction, trench back fill, and all sub-grades shall be performed at no cost to San Bernardino County and a written report shall be submitted to the Transportation Operations Division, Permits Section of County Public Works, prior to any placement of base materials and/or paving.
87. Transitional Improvements. Right-of-way and improvements (including off-site) to transition traffic and drainage flows from proposed to existing, shall be required as necessary.
88. Street Gradients. Road profile grades shall not be less than 0.5% unless the engineer at the time of submittal of the improvement plans provides justification to the satisfaction of County Public Works confirming the adequacy of the grade.
89. Two Access Points. A minimum two points of ingress/egress are required or alternative approved by County Fire Department.

PUBLIC WORKS/Traffic Division (909) 387-8186

90. Street Improvement Plans. *The street improvement plans shall include:*

- *Install a "STOP" sign and stop pavement markings at the project driveway on Valley Blvd.*
- *Install a "STOP" sign and stop pavement markings at the project driveway on Cypress Avenue.*
- *Restripe Valley Blvd. along the project frontage to provide a two-way left turn lane and a 60 foot eastbound left turn pocket at its intersection with Cypress Avenue.*

Mitigation Measure XVI-1 - Prior to Building Permit/County Traffic

91. *Regional Transportation Mitigation Fees.* *This project falls within the Regional Transportation Facilities Mitigation Plan for the Colton Subarea. This fee shall be paid by a cashier's check to the Department of Public Works Business Office. The plan fees shall be computed in accordance with the Plan fees in effect as of the date that the building plans are submitted and the building permit is applied for. These fees are subject to change periodically. Currently, the fee is \$3,064 per multi-family dwelling unit and \$9.51 per square foot for commercial use. Per the project application, there are 112 multi-family dwelling units for a total fee of \$343,168 (112 x \$3,064). There is also a 2,500 s.f. childcare building for a total fee of \$23,775 (2,500 x \$9.51). Therefore the current total Regional Transportation Facilities Mitigation Plan fee is \$366,943. The current Regional Transportation Fee Plan can be found at the following website:*

http://www.sbcounty.gov/dpw/transportation/transportation_planning.asp

Mitigation Measure XVI-2 - Prior to Building Permit/County Traffic

COUNTY FIRE/ Community Safety (909) 386-8400

92. *Access.* *The development shall have a minimum of 2 points of vehicular access. These are for fire/emergency equipment access and for evacuation routes. Standard 902.2.1*
- a) *Single Story Road Access Width.* *All buildings shall have access provided by approved roads, alleys and private drives with a minimum twenty six (26) foot unobstructed width and vertically to fourteen (14) feet six (6) inches in height. Other recognized standards may be more restrictive by requiring wider access provisions.*
 - b) *Multi-Story Road Access Width.* *Buildings three (3) stories in height or more shall have a minimum access of thirty (30) feet unobstructed width and vertically to fourteen (14) feet six (6) inches in height.*
93. *Building Plans.* *Not less than three (3) complete sets of Building Plans shall be submitted to the Fire Department for review and approval.*
94. *Fire Fee.* *The required fire fees (currently \$3,495) shall be paid to the San Bernardino County Fire Department/Community Safety Division (909) 386-8400. This fee is in addition to fire fees that are paid to the City of Colton.*
95. *Turnaround.* *An approved turnaround shall be provided at the end of each roadway one hundred and fifty (150) feet or more in length. Cul-de-sac length shall not exceed six hundred (600) feet; all roadways shall not exceed a 12%*

grade and have a minimum of forty five (45) foot radius for all turns. Standard 902.2.1

96. Water System Commercial. A water system approved and inspected by the Fire Department is required. The system shall be operational, prior to any combustibles being stored on the site. All fire hydrants shall be spaced no more than three hundred (300) feet apart (as measured along vehicular travel-ways) and no more than three hundred [300] feet from any portion of a structure.
97. Fire Sprinkler-NFPA #13R. An automatic fire sprinkler system complying with NFPA Pamphlet #13R and Fire Department standards is required. The applicant shall hire a Fire Department approved fire sprinkler contractor. The fire sprinkler contractor shall submit three (3) sets of detailed plans (minimum 1/8" scale) with hydraulic calculations and manufactures specification sheets to the Fire Department for approval. The contractor shall submit plans showing the type of storage and use with the applicable protection system. The required fees shall be paid at the time of plan submittal.
98. Fire Alarm. A manual, automatic or manual and automatic fire alarm system complying with the California Fire Code, NFPA and all applicable codes is required. The applicant shall hire a Fire Department approved fire alarm contractor. The fire alarm contractor shall submit three (3) sets of detailed plans to the Fire Department for review and approval. The required fees shall be paid at the time of plan submittal. Standard 1007.1.1FA.
99. Class I Standpipe System. A Class I standpipe system is required. A Fire Department approved fire sprinkler contractor shall submit three (3) sets of hydraulic calculations and detailed plans to the Fire Department for review and approval, showing type of storage and use with the applicable protection system. Commercial and industrial buildings in excess of two hundred thousand (200,000) square feet with an interior area less than four hundred (400) feet in width, shall be equipped with a Class I standpipe system, located at every other access door with a maximum of three hundred (300) feet spacing. Buildings with an interior area greater than four hundred (400) feet in width shall be equipped with a Class I standpipe system located at every access door maximum of one hundred (100) foot spacing. Standpipe connections shall be configured to reach any portion of interior space within two hundred (200) feet in any direction of travel. This system shall be calculated to provide two hundred and fifty (250) gpm @ 100 psi per hose outlet from an adjacent fire sprinkler riser with two hand lines flowing. The two most hydraulically remote outlets are to be included in the design for a total flow of 500 gpm minimum per system. A Fire Department approved fire sprinkler contractor shall submit four (4) sets of hydraulic calculations and detailed plans, showing type of storage and use with the applicable protection system. The required fees shall be paid at the time of plan submittal.

PUBLIC WORKS/ Solid Waste Management (909) 386-8701

100. Construction and Demolition Waste Management Plan (CDWMP) Part 1 – The developer shall prepare, submit, and obtain approval from SWMD of a CDWMP Part 1 for each phase of the project. The CWMP shall list the types and weights or volumes of solid waste materials expected to be generated from construction. The CDWMP shall include options to divert from landfill disposal, materials for reuse or recycling by a minimum of 50% of total weight or volume. Forms can be found on our website at www.sbcounty.gov/dpw/solidwaste. An approved CDWMP Part 1 is required before a demolition permit can be issued.

PRIOR TO ISSUANCE OF FINAL OCCUPANCY PERMITS

PUBLIC HEALTH – Environmental Health Services Division (800) 442-2283

101. Certificate of Use. Prior to occupancy of a newly constructed or remodeled apartment complex, hotel, motel, resort, pursuant to San Bernardino County Code 33.101 et. seq., a Certificate of Use request shall be submitted to the Division of Environmental Health Services. For information, call DEHS/Community Environmental Health at: 1-800-442-2283.

DEPARTMENT OF PUBLIC WORKS – Traffic Division (909) 387-8186

102. Traffic Control Improvements. Install at 100% cost to the applicant the following:
- Install a “STOP” sign and stop pavement markings on the project driveway at Valley Blvd.
 - Install a “STOP” sign and stop pavement markings on the project driveway at Cypress Avenue.
 - Restripe Valley Blvd. along the project frontage to provide a two-way left turn lane and a 60 foot eastbound left turn pocket at its intersection with Cypress Avenue.

PUBLIC WORKS / Solid Waste Management (909) 386-8701

103. Construction and Demolition Waste Management Plan (CDWMP) Part 2 – The developer shall complete SWMD’s CDWMP Part 2 for construction and demolition. This summary shall provide documentation of actual diversion of materials including but not limited to receipts, invoices or letters from diversion facilities or certification of reuse of materials on site. The CDWMP Part 2 shall provide evidence to the satisfaction of SWMD that demonstrates that the project has diverted from landfill disposal, material for reuse or recycling by a minimum of 50% of total weight or volume of all construction waste.

LAND USE SERVICES/Building and Safety Division (909) 387-8311

104. Condition Compliance Release Form Sign-off. Prior to occupancy all Department/Division requirements and sign-off’s shall be completed.

LAND USE SERVICES/ Planning Division (909) 387-8311

105. Parking Lot Installed. On-site parking and circulation requirements shall be installed, inspected and approved as being in compliance with the approved Development Plan. The following shall be completed:
- a) Markings. All circulation markings shall be clearly painted and permanently maintained, including arrows painted to indicate direction of traffic flow.
 - b) Crosswalks. All on-site internal pedestrian crosswalks shall be delineated with a minimum 3" white or yellow painted line stripe. All pedestrian crossings in public right-of-way shall be per County Standards.
 - c) Stops. All internal parking lot driveway intersections shall be installed with a painted stop limit line and shall have either a breakaway pole "STOP" sign and/or painted "STOP" lettering on the paving in front of the limit line.
 - d) Parking Space Striping. All paved parking stalls shall be clearly striped and permanently maintained. All paved parking stalls shall be striped with double/hairpin lines with the two lines being located an equal nine inches on either side of the stall sidelines.
 - e) Multi-modal. All required multi-modal amenities (e.g. bike stands, motorcycle parking, mass transit access, carpool preferred parking, vanpool passenger pickup etc.) shall be installed per approved plans.
106. Disabled Parking Installed. Parking for the disabled with paths of travel to the main building entries shall be installed per SBCC §83.11.060. Disabled access parking spaces shall be clearly and continually designated with pavement markings and signs.
107. Lights Installed. All required lighting shall be installed in compliance with the approved lighting plan. All lights used to illuminate the site shall be hooded and designed so as to reflect away from adjoining properties and public thoroughfares.
108. Screening Installed. All required screening and buffering measures shall be installed. All trash enclosures shall be screened from public view and shall be double-bin capacity with a rainproof roof.
109. Building Elevations. The building construction shall be completed in conformance with the approved architectural elevations to the satisfaction of County Planning.
110. Landscape Certificate of Completion. All proposed landscaping, hardscape, exterior features (benches, walkways, bike racks etc), walls and fencing shall be installed as shown on the approved landscaping plan for each phase of development. All improvements shall be completed prior to receiving final occupancy for each phase of development as shown on the approved phasing

plan. A Landscape Certificate of Completion, signed by the licensed professional who prepared the plans, shall be submitted to verify completion.

111. GHG – Operational Standards. The developer shall implement the following as greenhouse gas (GHG) mitigation during the operation of the approved project:
- a) Waste Stream Reduction. The “developer” shall provide to all tenants and project employees County-approved informational materials about methods and need to reduce the solid waste stream and listing available recycling services.
 - b) Vehicle Trip Reduction. The “developer” shall provide to all tenants and homeowners County- approved informational materials about the need to reduce vehicle trips and the program elements this project is implementing. Such elements may include: participation in established ride-sharing programs, creating a new ride-share employee vanpool, and/or providing a web site or message board for coordinating rides.
 - c) Provide Educational Materials. The developer shall provide to all tenants and employees education materials and about reducing waste and available recycling services. The education materials shall be submitted to County Planning for review and approval.
 - d) Landscape Equipment. The developer shall require in the landscape maintenance contract and/or in onsite procedures that a minimum of 20% of the landscape maintenance equipment shall be electric-powered.
112. GHG – Installation/Implementation Standards. The developer shall submit for review and obtain approval from County Planning of evidence that all applicable GHG performance standards have been installed, implemented properly and that specified performance objectives are being met to the satisfaction of County Planning and County Building and Safety. These installations/ procedures include the following:
- a) Design features and/or equipment that cumulatively increases the overall compliance of the project to exceed Title 24 minimum standards by five percent.
 - b) All interior building lighting shall support the use of fluorescent light bulbs or equivalent energy-efficient lighting.
 - c) Installation of both the identified mandatory and optional design features and equipment that have been constructed and incorporated into the facility/structure.

LAND USE SERVICES / Land Development Division–Drainage Section (909) 387-8311

113. Drainage Improvements. All required drainage improvements shall be completed by the applicant. The private registered engineer shall inspect improvements outside the County right-of-way and certify that these improvements have been completed according to the approved plans. Certification letter shall be submitted to Land Development.
114. WQMP Improvements. All required WQMP improvements shall be completed by the applicant, inspected and approved by County Public Works. An electronic file of the final and approved WQMP shall be submitted to Land Development Division, Drainage Section.

LAND USE SERVICES / Land Development Division – Road Section (909) 387-8311

115. Road Improvements. All required on-site and off-site improvements shall be completed by the applicant, inspected and approved by County Public Works.
116. Open Roads/Cash Deposit. Existing County roads, which will require reconstruction, shall remain open for traffic at all times, with adequate detours, during actual construction. A cash deposit shall be made to cover the cost of grading and paving prior to issuance of road encroachment permit. Upon completion of the road and drainage improvement to the satisfaction of the Department of Public Works, the cash deposit may be refunded.
117. Structural Section Testing. A thorough evaluation of the structural road section, to include parkway improvements, from a qualified materials engineer, shall be submitted to County Public Works.
118. Parkway Planting. Any trees, irrigation systems, and landscaping required to be installed on public right-of-way shall be approved by County Public Works and County Planning shall be maintained by the adjacent property owner or other County-approved entity.

COUNTY FIRE/ Community Safety (909) 386-8400

119. Street Sign. This project is required to have an approved street sign (temporary or permanent). The street sign shall be installed on the nearest street corner to the project. Installation of the temporary sign shall be prior any combustible material being placed on the construction site. Prior to final inspection and occupancy of the first structure, the permanent street sign shall be installed. Standard 901.4.4
120. Hydrant Marking. Blue reflective pavement markers indicating fire hydrant locations shall be installed as specified by the Fire Department. In areas where snow removal occurs or non-paved roads exist, the blue reflective hydrant marker shall be posted on an approved post along the side of the road, no more

than three (3) feet from the hydrant and at least six (6) feet high above the adjacent road. Standard 901.4.3.

121. Residential Addressing. The street address shall be installed on the building with the numbers that are a minimum of four (4) inches in height and with a one half (1/2) inch stroke. The address shall be visible from the street. During the hours of darkness, the numbers shall be internally and electrically illuminated with a low voltage power source. Numbers shall contrast with their background and be legible from the street. Where the building is fifth (50) feet or more from the roadway, additional contrasting four (4) inch numbers shall be displayed at the property access entrances.
122. Commercial Addressing. Commercial and industrial developments of 100,000 sq. ft. or less shall have the street address installed on the building with numbers that are a minimum six (6) inches in height and with a three quarter (3/4) inch stroke. The street address shall be visible from the street. During the hours of darkness, the numbers shall be electrically illuminated (internal or external). Where the building is two hundred (200) feet or more from the roadway, additional non-illuminated contrasting six (6) inch numbers shall be displayed at the property access entrances. Standard 901.4.4
123. Illuminated Site Diagram. The applicant shall submit for review and approval a site diagram plan to the Fire Department. The applicant shall install at each entrance to a multi-family complex an illuminated diagrammatic representation of the complex, which shows the location of each unit and each fire hydrant. Standard 901.4.4
124. Key Box. An approved Fire Department key box is required. The key box shall be provided with a tamper switch and shall be monitored by a Fire Department approved central monitoring service. In commercial, industrial and multi-family complexes, all swing gates shall have an approved fire department Knox Lock. Standard 902.4

END OF CONDITIONS

EXHIBIT C

Joint Environmental Assessment/Initial Study Document

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Attachments

Attachment A: Project Plans and Information

Attachment B: Cultural Resources

Attachment C: Biological Resources

- C.1 - Habitat Assessment for Delhi Sands Flower-loving Fly
- C.2 - Habitat Assessment for Burrowing Owl

Attachment D: Air Quality and Greenhouse Gases

- D.1 - Air Quality and Greenhouse Gas Report
- D.2 - Technical Memorandum
- D.3 - Air Quality-Greenhouse Gas-Health Risk Assessment Supporting Documentation

Attachment E: Hazardous Materials

- E.1 - General Hazardous Materials
- E.2 - Lead
- E.3 - Asbestos

Attachment F: Noise

- F.1 - Noise Report
- F.2 - Recreational Areas

Attachment G: Traffic Impact Analysis

Attachment H: Geology and Soils

Attachment I: Hydrology

- I.1 - Drainage Study
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- I.4 - Water Quality Management Plan

Note: Attachments A through I are provided on CD affixed to the back inside cover of this document.

ENVIRONMENTAL ASSESSMENT

Responsible Entity: [24 CFR 58.2(a)(7)]	County of San Bernardino Economic Development Agency
Certifying Officer: [24 CFR 58.2(a)(2)]	Dena Fuentes
Project Name:	Las Terrazas Mixed-Use Affordable Housing and Childcare Project
Project Location:	275 and 291 Cypress Avenue, Colton, California
Estimated Total Project Cost:	Approximately \$33.5 Million
Grant Recipient: [24 CFR 58.2(a)(5)]	AMCAL Las Terrazas Fund, LP
Recipient Address:	30141 Agoura Road, Suite 100
Project Representative:	Darin Hansen, Vice President
Telephone Number:	(818) 706-0694 x. 173

Conditions for Approval: (List all mitigation measures adopted by the responsible entity to eliminate or minimize adverse environmental impacts. These conditions must be included in Project contracts or other relevant documents as requirements). [24 CFR 58.40(d), 40 CFR 1505.2(c)]

See Mitigation Measures Recommended:

#AQ-1	Air Quality
#AQ-2	Air Quality
#AQ-3	Air Quality (Odors)
#CUL-1	Cultural Resources
#CUL-2	Cultural Resources
#CUL-3	Cultural Resources
#GEO-1	Geological Hazards
#HAZ-1	Hazardous Substances
#HYD-1	Hydrology (Construction Phase Water Quality – SWPPP)
#NOI-1	Noise
#NOI-2	Noise
#TRA-1	Traffic and Circulation (Safety)
#USS-1	Solid Waste

FINDING: [58.40(g)]

- X Finding of No Significant Impact**
(The Project will not result in a significant impact on the quality of the human environment)
- Finding of Significant Impact**
(The Project may significantly affect the quality of the human environment)

Preparer Signature:

Title/Agency

**Aron Liang, Senior Planner
County of San Bernardino
Land Use Services Department**

Date:

RE Approving Official Signature:

Title/Agency

**Dave Prusch, Supervising Planner
County of San Bernardino**

Date:

STATEMENT OF PURPOSE AND NEED FOR THE PROPOSAL: [40 CFR 1508.9(B)]

The San Bernardino County's General Plan anticipates continued population growth throughout the county (San Bernardino County 2012). Over the next 10 years, the unincorporated valley region is projected to add over 130,000 new residents, or more than 57 percent (more residents). As part of the Regional Housing Needs Assessment, SCAG identifies the regional housing need by income classification and number (SCAG 2012). The housing needs for unincorporated San Bernardino County and the City of Colton are illustrated in Tables 1 and 2 below.

Table 1: Housing Need based on Percentage of Income Classification

Jurisdiction	% of Very Low	% of Low	% of Moderate	% of Above Moderate
San Bernardino County (unincorporated)	23%	16.5%	18.5%	41.9%
City of Colton	23%	16.1%	18.1%	42.8%

Source:
Southern California Association of Governments (SCAG). 2012. 5th Cycle Regional Housing Needs Assessment Final Allocation Plan, 1/1/2014 – 10/01/2021. Date: October 4. Website: <http://rtpscs.scag.ca.gov/Documents/rhna/5thCyclePFinalRHNAplan.pdf>. Accessed January 29, 2016.

The County of San Bernardino Regional Housing Need Assessment Final Allocation Plan allocates 39 units of affordable housing in unincorporated areas for 2014-2021.¹ However, the Market Study prepared for the Project that examined the specific needs of the Colton Primary Market Area (PMA) described a need for 320 new units a year of affordable housing. Furthermore, the Market Study states that the Housing Choice Voucher (HCV) Program waiting list for San Bernardino County, also known as Section 8, is currently closed and was last opened in March of 2015.

The subject property is well positioned to help alleviate the identified need for affordable rental units in the PMA and presents minimal risk:

- The penetration rate for the subject Project is relatively low (1.3%), indicating that there is a small amount of proposed supply relative to the population of low households that occupy rental housing.
- Future household projections indicate demand for 320 rental units each year in the market area. Because the market area is virtually built out, it is highly unlikely that this number of new rental units will be constructed annually.
- The subject property has good visibility and accessibility, which would aid in marketing efforts.

¹ Includes extremely low, very low, low, moderate, and above moderate income levels.

- The subject property is well below the existing market-rate competition.
- The existing affordable rental properties report high occupancies, and 3-bedroom plans are scarce throughout the PMA.
- The Project's 112 units represent a negligible addition to the market area's existing base of approximately 70,400 rental units. This minor addition will have virtually no impact on the market's overall occupancy rate.

Furthermore, the County of San Bernardino has indicated that a recent project, Bloomington Grove (a family project) opened their waiting list within the last few months and as of January 2016 already had 711 parties on their waiting list. Additionally, Lillian Court (a senior project) has 206 parties on the waiting list. These two existing projects are within the vicinity of the proposed Las Terrazas Mixed –Use Affordable Housing and Childcare Project, (the Project) and utilize the same income and rents as the proposed project. Thus, there is an apparent need for additional affordable housing opportunities in the area.

Description of the Proposal

The Project involves the construction of 112 multi-family homes for low- and very low-income households in the unincorporated portion of San Bernardino County, and near the City of Colton; refer to Exhibit 1, Regional Location Map. The Project would require a General Plan amendment from Single Residential (RS) and Commercial General (CG) to Special Development-Residential (SD-Res). It would also require a Planned Development Permit, pursuant to County of San Bernardino Development Code requirements and standards. The Planned Development Permit would allow flexibility in the application of development standards. The Project Applicant has requested certain developer incentives based on the affordable housing use, further detailed below. The 5.92-acre site currently consists of three separate parcels and the lots would be merged into one large parcel.

The site is located at 275 and 291 Cypress Avenue, directly north of West Valley Boulevard, directly west of North Cypress Avenue, and east of North Hermosa Avenue; refer to Exhibit 2, Local Vicinity Map. The site is located within the San Bernardino South, USGS 7.5-Minute, Topographic Map.

The Project would be developed by AMCAL Multi-Housing Inc. (AMCAL), at an estimated cost of \$32,875,195. Project financing would be provided by various sources, which may include the following:

- Federal Tax Credits: these credits would be syndicated and funded throughout the construction process and would provide approximately \$18,588,560.
- Permanent Loan (tax exempt): permanent loans would provide approximately \$2,314,288.
- Accrued Interest Financing: \$1,039,840.
- County Funding: County of San Bernardino Neighborhood Stabilization Program (NSP) III Funds (Existing Loan): \$3,166,000 and County of San Bernardino Gap Financing: \$7,300,000.

The site would be developed under the Tax Credit Allocation Committee (TCAC) Program administered by the State of California (State). The State administers this low-income housing tax credit program, which was authorized to encourage private investment in affordable rental housing for households meeting certain income requirements. The TCAC Program would ensure qualifying applicants are approved between 30 and 60 percent of the Area Median Income (AMI), as published by the Department of Housing and Urban Development (HUD). HUD establishes an AMI annually for the Metropolitan Statistical Area (MSA) in which a project is located. HUD also establishes maximum rent levels for each income category based on a combination of household income and size, and the unit's location. Individuals and families submitting rental applications would be considered in order of submission and would be evaluated using criteria provided by the TCAC program including: income and family size; residential rental history; criminal background checks; and various forms of proof and documentation.

The Project would provide a total of 112 dwelling units, a Daycare Center, Community Building and other amenities, as further described herein. Table 3 provides a summary of the Project components; also see the site plans in Attachment A.

The Project be developed within a lot area of nearly 6 acres (5.92-acres), for a density of 18.9 dwelling units an acre (DU/acre); (Withee Malcolm Architects 2016). Five buildings are proposed of two or three stories in height, with a building coverage of 47,490 square feet (sf), and a floor area ratio (FAR of 0.47). The Project would include 20 accessible units in accordance with Americans with Disabilities Act (ADA) standards. The Project would establish five residential buildings on-site, with one located in the southwest corner, two in the northwest portion, and two buildings in the center of the site. All of the buildings would be three stories in height, with the exception of the northwest building closest to the northern property boundary, which would be two stories in height.

A single-story Daycare Center would be provided on the corner of West Valley Boulevard and Cypress Avenue. The building would include one office, two classrooms, storage areas, and a teacher lounge/kitchen. The daycare facilities would also provide outdoor space for the children with at least 75 sf of open space per student, for an approximate total of 4,000 sf of open space. A separate parking lot would be provided and located in front of the community's gated entry way. The Daycare facility would be open to Project residents, and others nearby.

A single-story Community Building would be located behind the main entrance, and occupy 2,300 sf. The building would host events, classes, and be used to provide social services. Adjacent amenities include a pool, barbeque and tot lot.

A community recreation area is provided along the central western border of the site, and includes a tot lot, community open space, barbeques, a dog run, and a sports court/recreation area. A total of 30,000 sf of private and common open space would be provided.

The Project would also seek LEED Silver certification, totaling a projected 79.5 points on the LEED for Homes simplified Checklist. Innovation and Design Process, Location and Linkages, Sustainable Sites, and Awareness and Education are all areas related to LEED certification in which the Project excels.

Table 2: Project Components

Project Component	Description
Dwelling Units	112 units, ranging from 525 to 1,020 sf (net), for a density of 18.9 DU/Acre. Units will be rented as affordable housing for low and very-low income members of the community.
Day Care	<p>The Daycare would consist of 2,500 sf (up to 3,000 sf) and maintain at least 75 sf of open space per student. There would be capacity for 4 employees and 40-50 children. The building would be one-story with 2,500 sf, consisting of:</p> <ul style="list-style-type: none"> • 1 office • 2 classrooms • Shared restroom • Several storage areas • 1 teacher lounge/kitchen. <p>Hours of operation: Monday–Friday 8:00 am to 6:00 pm The facility would serve residents and neighbors.</p>
Community Building	The community building would be one-story consisting of 2,300 sf, would host events and classes, and be used to provide social services.
Social Services	<p>Social services that would be provided at the Project site would include:</p> <ul style="list-style-type: none"> • English as a second language • Resume assistance • After school program • Personal finance • Nutrition • Case management
Amenities	Landscaped areas, tot lots, gardens, a pool, a sports court/recreation area, and barbeque areas would be provided, totaling 84,100 sf.
Site Access	<p>Primary site access will be provided via W. Valley Boulevard. A gate is proposed for the Valley Boulevard access, but the gate will be located beyond the parking area for the day care center and community service building. Pedestrian access gates will also be provided along W. Valley Boulevard. Emergency-only access will consist of a driveway along Cypress Avenue, directly opposite of H Street. This location will also be an exit for residents. Internal roadways would wrap around the five residential buildings, providing access and parking along at least one of each of the building frontages. The Project would include the installation of block and wrought iron walls around the community perimeter.</p> <p>OmniTrans provides public transit services in the Project area. The nearest bus stop is located along Valley Boulevard, adjacent to the Project site (OmniTrans 2014).</p>
Parking	The Project would provide 205 parking spaces, consisting of 172 resident, 22 resident accessible, 9 daycare, and 2 daycare accessible spaces. Solar panels would also be installed on all carports.
Storm Drainage	A storm water drain is located on the corner of Cypress Avenue and West Valley Boulevard. This storm water drain would be re-built to provide 2 new inlets and a 100-ft. pipe to the channel on the south side of Valley Boulevard. The Project would also include a 20' drainage easement along the northeastern border of the site across from the parking lot.

Project Component	Description
Sewer	The Project site would have a 400-ft. extension north along Cypress Ave. from the existing sewer main in Valley Blvd. The Project site would require an 8-inch PVC sewer main on-site and 10-inch PVC sewer main along the northerly entry driveway and a 10-inch PVC sewer main off-site on Cypress Ave. The City of Colton Public Works provides sewer service to the Project site.
Other Utilities	Natural gas and electrical services are provided to the property by the Southern California Gas Company, and Southern California Edison, respectively. The City of Colton Public Works provides potable water to the Project site. There will be no septic systems on-site.
Remediation Activities	Under the oversight of Department of Toxic Substances (DTSC), approximately 715 tons of contaminated soil will need to be excavated and disposed of utilizing 35 trucks.

The Project would be developed over one phase. Construction is expected to begin in January 2017 and be completed in April 2018.

Project Entitlements and Incentives

The Project Applicant requests various entitlements and incentives for the proposed affordable housing development. As previously outlined, the Project requires the approval of a Planned Development Permit with two incentives:

1. Reduction in common open space ("activated") from 40% of site (111,195 sf) to 17% of the site (42,218 sf).
2. Reduction in private open space per unit from 225 sf to 55 sf for ground-floor units, and from 60 sf to 55 sf for upper-floor units.

The incentives allow for the development of the maximum number of units restricted to low-income households on the site, thereby complying with a primary goal of the General Plan Housing Element to build low-income housing.

The Project would also require a General Plan Amendment to change existing designations from General Commercial (CG) and Single Residential (RS) to Special Development with a Residential Emphasis (SD-RES) with four incentives:

1. Reduction in minimum unit size for 1-bedroom unit from 650 sf to 570 sf and for 2-bedroom unit from 850 sf to 835 sf.
2. Increase in maximum building length from 100 ft to 145-10 ft, 156-4 ft, and 160-10 ft.
3. Reduction in covered parking from 2 spaces to 1 space for 2- and 3- bedroom units (carports will be used).

4. Reduction in private open space per unit from 125 sf to 55 sf per unit.

Lastly, the Project would require a Lot Merger to merge three parcels (APNs 0274-182-34, -43, and -46) into one parcel.

The incentive requested for reduced minimum unit sizes for 1- and 2-bedroom units would provide relief from strict application of the County Zoning Code; however, the size of the units would still comply with the County's Building Code. The incentive requested for reduction in covered parking for 2 and 3-bedroom units from 2 spaces to 1 space will still provide one covered space for each household, and solar panels will be installed on the carports.

Additionally, the incentive requested for reduced common open space would be offset by an extensive program of amenities in the common area, which includes a community clubhouse (computer lab, kitchen for social events, classrooms, and lounge), barbecue/picnic area, large turf areas for games and recreation, outdoor exercise stations and a walking path. There is an exercise circuit as well, on which residents may begin at one side of the site and move from station to station to perform various exercises using intermittent walking paths. Lastly, additional landscaped space is provided that would provide greenery (shrubs/trees) to support an open and enjoyable outdoor environment.

The Housing Element of the County of San Bernardino General Plan contains specific policies that elucidate and support the Project's need for incentives.

Policy H-2.2: Continue to utilize Planned Development density bonus and density transfer provisions as described in the County Development Code to allow the development of lot sizes less than that normally required by residential land use districts.

Policy H-2.3: allow flexibility in the application of residential and mixed-use development standards in order to gain benefits such as exception design quality, economic advantages, sustainability, or other benefits that would not otherwise be realized.

Policy H-2.4: Maintain incentives that can be offered when projects provide benefits to the community such as exceptional design quality, economic advantages, environmental sustainability, or other benefits that would not otherwise be realized.

Policy H-4.5: Support the Housing Authority's efforts to modernize and replace, where needed, existing multiple-family projects to provide safe, sound, and affordable housing options for qualified low income individuals and families.

Therefore, the Project would further the County's goals and policies contained within the Housing Element of the General Plan (2014).

Existing Conditions and Trends

The Project site is located north of Interstate-10 (I-10), within an unincorporated portion of the County of San Bernardino, near the City of Colton. More specifically, the site is located at 275 and 291 Cypress

Avenue. The Project site also includes an adjacent, unaddressed parcel. The largest parcel (APN 0274-182-43) consists of approximately 5 acres, and the remaining parcels comprise approximately 1.0 (APN 0274-182-46) and 0.5 acres (APN 0274-182-34), respectively. A single-family residence was previously located at 291 Cypress Avenue within the 0.5 acre-parcel, but has been demolished following asbestos and lead abatement. The majority of the Project site was previously used for agricultural purposes, with a few single-family residences, but is currently graded and vacant. Due to the past uses of the property, soil contaminants are present on-site due to previous use of pesticides and insecticides. Based on historic and recent assessments of the property, vertical and the lateral extent of the existing organochlorine pesticides (OCP) and polychlorinated biphenyls (PCB) in soil has been fully defined. Rincon Consultants, Inc. prepared a Draft Removal Action Workplan (RAW) which will provide for removal and proper disposal of the OCP and PCB impacted soil from the site. The applicant has entered into a voluntary cleanup agreement with the California Department of Toxic Substances Control (DTSC) for regulatory oversight to remove the impacted soils from the site.

The Project site is located approximately 1,020 feet above sea level. The site consists of mostly unpaved, unvegetated, vacant land; limited vegetation consisting of shrubs and grasses is located at the parcel edges. The parcel containing the previously mentioned single-family residence also contained limited landscaping and a concrete-paved driveway to the east, and a landscaped backyard to the west. The Project site is bordered by multi-family residential, single-family residential, and commercial uses. The Project site is bounded by Commercial zoning and single-family residential zoning. More specifically, land uses within the vicinity include:

- *North:* Single-family residential uses
- *South:* West Valley Boulevard with I-10 and Southern Pacific Railroad beyond
- *East:* Commercial (C2 Food Mart) and single-family residential uses
- *West:* Commercial-Storage uses (Budget Mini-Storage)

The County of San Bernardino is divided into three planning regions including the Desert Region, Valley Region, and Mountain Region. The City of Colton and surrounding unincorporated areas are located within the Valley Region. The Valley Planning Region encompasses 500 square miles and contains approximately 75 percent of the County's population. The County utilizes a "one map approach" that provides both the General Plan land use designation, as well as the zoning district on one map. Two of the Project site parcels are zoned CG General Commercial by the San Bernardino County Municipal Code, Title 8, Development Code. The northwestern parcel (APN 274-182-34) is zoned RS Single Residential. The proposed multi-family residential development is not permitted within the existing general commercial or Single Residential zones. Therefore, the Project would require approval of a General Plan amendment from Single Residential (RS) and Commercial General (CG) to Special Development-Residential (SD-Res). The Project also requires a Planned Development Permit, pursuant to County of San Bernardino Development Code requirements and standards (Chapters 84.18 and 85.10). The Planned Development Permit would allow flexibility in the application of Development Code standards to the proposed housing development.

Exhibit 1: Regional Location Map

Exhibit 2: Local Vicinity Map

STATUTORY CHECKLIST [24CFR §58.5]

For each listed statute, executive order or regulation, record the determinations made. Note reviews and consultations completed as well as any applicable permits or approvals obtained. Attach evidence that all required actions have been taken. Record any conditions or mitigation measures required. Then, make a determination of compliance or consistency.

Factors	Determinations and Compliance Documentation
Historic Preservation [36 CFR 800]	<p>A Cultural Assessment of the Project site, or area of potential effect (APE), was conducted and included the results of an archaeological and historical records search encompassing a one mile-radius around the APE, completed at the San Bernardino Archaeological Information Center at the San Bernardino County Museum in Redlands. The results indicate that there are no known archaeological cultural resources recorded within the APE. However, outside the study area, twelve archaeological sites (2 prehistoric and 10 historic) have been recorded within a one-mile radius. No pre-historic resources were discovered on the Project site. Two historic-era structures were identified during field studies: a residence at 275 N. Cypress Avenue and a residence at 291 Cypress Avenue. Based upon notations written on the County building record, the residence at 275 N. Cypress Avenue was completely demolished on May 14, 2008. While the residence at 291 Cypress Avenue is over 50 years in age, it did not meet the criteria for California Register of Historical Resources (CRHR) and was concluded not significant. The residence has since been demolished. No archaeological materials were observed during the course of the pedestrian survey of the APE. Additionally, the Cultural Resources Preservation (CP) Overlay depicted on the County's Cultural Resources Sensitivity Overlay Map applies to areas where archaeological and historic sites that warrant preservation are known or are likely to be present. The Project site is not within a mapped CP Overlay District. During the course of the investigation, no historic or archaeological resources were found on the Project site. Nonetheless Mitigation Measure (MM) CUL-1 is required.</p> <p>A search for paleontological records was completed by a literature review, field reconnaissance, and report. No recorded fossil localities, fossil lists, published or unpublished literature within the boundaries of the Project site were located during any of these literature searches. The Project site's surface sediments have no potential to yield paleontological resources. No paleontological materials were observed during the course of the pedestrian surveys of the Project site. Additionally, the Project site is not within a mapped Paleontologic Resources (PR) Overlay District, as depicted on the Cultural Resources Sensitivity Overlay Map. However, there is potential to encounter Pleistocene fossils in Pleistocene soils underlying the Project site, if construction-related excavations, trenching, or other forms of ground disturbance exceed ten feet below the surface. If the planned construction of the site will not result in deep excavations beyond 10 feet, there is no need for additional paleontological mitigation measures. No additional mitigation measures are necessary prior to</p>

Factors	Determinations and Compliance Documentation
	<p>the initiation of grading operations. However, it is recommended that a paleontological grading observation schedule consisting of spot-checking by a Certified Paleontologist should be maintained if grading is planned to exceed 10 feet below the surface to further evaluate the potential fossil resources of the site. Additionally, salvage operations should be initiated and coordinated with the developer if significant concentrations of fossils are encountered (see recommended Mitigation Measure CUL-2). Compliance with the recommended measures would mitigate any potential adverse impacts to cultural resources.</p> <p>CUL-1: In the event that buried cultural resources are discovered during construction, operations shall stop in the immediate vicinity of the find and a qualified archaeologist shall be consulted to determine whether the resource requires further study. The qualified archaeologist and shall make recommendations to the Lead Agency on the measures that shall be implemented to protect the discovered resources, including but not limited to excavation of the finds and evaluation of the finds in accordance with Section 15064.5 of the CEQA Guidelines. Potentially significant cultural resources consist of but are not limited to stone, bone, fossils, wood, or shell artifacts or features, including hearths, structural remains, or historic dumpsites. Any previously undiscovered resources found during construction within the project area should be recorded on appropriate DPR forms and evaluated for significance in terms of CEQA criteria.</p> <p>If the resources are determined to be unique historic resources as defined under Section 15064.5 of the CEQA Guidelines, mitigation measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds.</p> <p>No further grading shall occur in the area of the discovery until the Lead Agency approves the measures to protect these resources. Any archaeological artifacts recovered as a result of mitigation shall be donated to a qualified scientific institution approved by the Lead Agency where they would be afforded long-term preservation to allow future scientific study.</p> <p>CUL-2: If the subsurface excavations for this project are proposed to exceed depths of 10 feet below surface, a qualified County-approved paleontological monitor should be retained to observe such excavations, which may breach the older underlying sediments and have a moderate potential to produce fossilized materials. In this situation, a detailed Mitigation Monitoring Plan (MMP) or Paleontological Resource Impact Management Plan (PRIMP) should be prepared in order to set forth the observation, collection, and reporting duties of the paleontological monitor. Additional mitigation measures and procedures will be outlined in the MMP or PRIMP as needed.</p>

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	<p>[Sources: Paleontological Assessment (Eilar Associates, Inc. 2013) included in Attachment B; Historical Resources Review (San Bernardino County Museum 2012) included in Attachment B; Cultural Resources Assessment (Eilar Associates, Inc. 2013) included in Attachment B; County of San Bernardino Website, San Bernardino County Land Use Plan General Plan Phelan/Pinon Hills/Oak Hills Culturally Sensitive Areas Overlay Map, http://cms.sbcounty.gov/Portals/5/Planning/ZoningOverlaymaps/CulturalSensitivity.pdf, accessed October 10, 2014; County of San Bernardino 2007 Development Code, Amended August 21, 2014].</p>
<p>Floodplain Management [24 CFR 55, Executive Order 11988]</p>	<p>The Project site is not located in a floodplain.</p> <p>[Sources: Federal Emergency Management Agency Website, FEMA Flood Insurance Rate Map (FIRM) Community Panel Number 06071C8679H, Map Revised November 15, 2010, http://www.fema.gov/hazard/map/firm.shtm, accessed October 1, 2014; and County of San Bernardino Website, San Bernardino County Land Use Plan General Plan Hazard Overlay Map, http://www.sbcounty.gov/Uploads/lus/GeoHazMaps/FH30C_20100309.pdf, accessed October 1, 2014.]</p>
<p>Wetlands Protection [Executive Order 11990]</p>	<p>There are no wetlands on the Project site or in its immediate vicinity.</p> <p>[Sources: U.S Fish and Wildlife Service Website, National Wetlands Inventory, http://www.fws.gov/wetlands/Data/Mapper.html, accessed October 2, 2014; and County of San Bernardino Website, San Bernardino County Land Use Plan General Plan Open Space Element Valley and Mountain Areas Open Space Resource Overlay Map, http://cms.sbcounty.gov/Portals/5/Planning/ZoningOverlaymaps/OpenSpaceValleyMtn.pdf, accessed October 2, 2014.]</p>
<p>Coastal Zone Management Act [Sections 307(c),(d)]</p>	<p>The Project site is approximately 45 miles inland, and is not located within a coastal zone.</p> <p>[Sources: California Coastal Commission Website, South Coast District Office Jurisdictional Boundary – Coastal Zone Boundary http://www.coastal.ca.gov/, accessed October 2, 2014; and County of San Bernardino Website, San Bernardino County Land Use Plan General Plan Land Use Zoning Districts Map, http://cms.sbcounty.gov/Portals/5/Planning/ZoningOverlayMaps/LUZD/FH29A_20100422.pdf, accessed October 2, 2014.]</p>
<p>Sole Source Aquifers [40 CFR 149]</p>	<p>There are no sole source aquifers located in the Project area.</p> <p>[Sources: US EPA Water Management Division Website, Region IX – Sole Source Aquifer Map, http://www.epa.gov/region9/water/groundwater/ssa.html, accessed October 2, 2014.]</p>
<p>Endangered Species Act [50 CFR 402]</p>	<p>Habitat Assessments for the Burrowing Owl (<i>Athene cunicularia</i>) and the Delhi Sands flower-loving fly (<i>Rhaphiomidas terminatus abdominalis</i>, “DSFL”), were conducted to document baseline on-site conditions and identify sensitive habitats and/or species potentially occurring within the Project boundaries.</p>

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	<p>According to the County's Biotic Resources Overlay Map – Valley/Mountain Area, the Project site is mapped as containing burrowing owl habitat. The burrowing owl is listed as endangered by the California Department of Fish and Wildlife (CDFW). No burrows or man-made structures capable of supporting burrowing owls were detected on-site; therefore, the Project site does not currently support suitable habitat. The Project site also does not support native vegetation communities. The site is characterized by "ruderal" vegetation typical of disturbed ground such as vacant lots. Based on the assessment, burrowing owls are presumed absent from the site. Focused surveys and a pre-construction burrowing owl survey are not required because suitable habitats do not occur on the Project site.</p> <p>The DSFL is tied to fine, sandy soils, often with wholly or partly consolidated dunes referred to as the "Delhi" series (USFWS 1993). Soils on the site are a mix of sandy loams and loams with a few sandy areas. However, the site has been subject to regular disking to a depth of six inches or greater, as reflected in the complete absence of any native shrubs and a mostly non-native cover. Typical DSFL habitat components such as California buckwheat, vinegar weed, and telegraph weed are entirely absent and as such, the Project site supports no species typically utilized by the DSFL. Based on the results of the most recent site visit, it is determined that the site conditions reported by GLA in 2012 and by MBA in 2006 (which in turn resulted in a determination by USFWS that the site was not occupied by the DSFL) have not changed, and the site exhibits no potential for supporting DSFL.</p> <p>In addition, because the site is fully surrounded by development, supports a predominance of nonnative weedy species, and supports no native habitat of any sort, the site exhibits no potential for supporting any other special-status species, and development of the site exhibits no potential for adverse impacts on any sensitive biological resources.</p> <p>The County's Open Space Overlay Map depicts wildlife corridors, major open space policy areas, and Areas of Critical Environmental Concern. The Project site is not within a mapped Open Space (OS) Overlay District. The Biotic Resources Overlay Map depicts the County's biological resources and indicates the Project site is not within a mapped Biotic Resources (BR) Overlay District. Development of the site would have no significant effect on any endangered species or sensitive habitats, including riparian and wetlands.</p> <p>[Sources: Habitat Assessment for Burrowing Owl (Glenn Lukos Associates, February 12, 2013) and Habitat Assessment for Delhi Sands flower-loving fly (Glenn Lukos Associates, February 12, 2013) provided in Attachment C; San Bernardino County Land Use Plan General Plan Open Space Element Valley and Mountain Areas Open Space Resources Overlay Map, http://cms.sbcounty.gov/Portals/5/Planning/ZoningOverlaymaps/OpenSpaceValleyMtn.pdf, accessed October 2, 2014, San Bernardino County Valley/Mountain Region Biotic Resources Overlay Map,</p>

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	<p>http://www.sbcounty.gov/Uploads/lus/BioMaps/vly_mtn_all_biotic_resources_map_final.pdf, accessed October 2, 2014; and United States Department of Fish and Wildlife Service Website, Delhi Sands Flower-Loving Fly 5-Year Review: Summary and Evaluation, http://www.fws.gov/carlsbad/SpeciesStatusList/5YR/20080331_5YR_DSF.pdf, accessed October 2, 2014).]</p>
Wild and Scenic Rivers Act [Sections 7 (b), (c)]	<p>There are no Wild or Scenic Rivers in the Project area.</p> <p>[Sources: National Park Service National Wild and Scenic Rivers GIS Map – California, http://www.rivers.gov/, accessed October 2, 2014; San Bernardino County Land Use Plan General Plan Open Space Element Valley and Mountain Areas Open Space Resources Overlay Map, http://cms.sbcounty.gov/Portals/5/Planning/ZoningOverlaymaps/OpenSpaceValleyMtn.pdf, accessed October 2, 2014.]</p>
Air Quality [Clean Air Act, Sections 176 (c) and (d), and 40 CFR 6, 51, 93]	<p>The South Coast Air Basin (SCAB) is designated as an extreme non-attainment area for ozone, and a non-attainment area for PM₁₀ and PM_{2.5}. The Project would be located within a “non-attainment” area that conforms to the EPA-approved State Implementation Plan (SIP), and requires no individual National Emissions Standards for Hazardous Air Pollutants (NESHAP) permit or notification for the Project. Further, the Project would not exceed the SCAQMD’s localized or regional thresholds of significance for construction activities or long-term operations). The Project would also be required to comply with SCAQMD Rule Fugitive Dust Controls, which would further reduce potential air quality impacts. Mitigation Measure AQ-1 is required.</p> <p>AQ-1: Dust Control Plan. Prior to Grading Permit or Building Permit issuance, the “developer” shall prepare, submit for review, and obtain approval from County Planning of both a Dust Control Plan (DCP) consistent with SCAQMD guidelines and a signed letter agreeing to include in any construction contracts/subcontracts a requirement that Project contractors adhere to the DCP requirements. The DCP shall include the following requirements:</p> <ol style="list-style-type: none"> Exposed soil shall be kept continually moist to reduce fugitive dust during all grading and construction activities, through application of water sprayed a minimum of three times each day during dry weather. Watering, with complete coverage of disturbed areas, shall occur at least three times a day, preferably in the mid-morning, afternoon, and after work is done for the day. The contractor shall ensure that traffic speeds on unpaved roads and the Project site areas are reduced to 15 miles per hour or less to reduce PM₁₀ and PM_{2.5} fugitive dust haul road emissions. Any portion of the site to be graded shall be pre-watered to a depth of three feet prior to the onset of grading activities. The contractor shall ensure that during high wind conditions (i.e., wind speeds exceeding 25 mph), areas with disturbed soil shall be watered hourly and activities on unpaved surfaces shall cease until wind speeds no longer exceed 25 mph.

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	<p>e) Any area that would remain undeveloped for a period of more than 30 days shall be stabilized using either chemical stabilizers and/or a desert wildflower mix hydroseed on the affected portion of the site.</p> <p>f) The contractor shall ensure that storage piles that are to be left in place for more than three working days shall be sprayed with a non-toxic soil binder, covered with plastic or revegetated.</p> <p>g) The contractor shall ensure that imported fill and exported excess cut shall be adequately watered prior to transport, covered during transport, and watered prior to unloading.</p> <p>h) The contractor shall ensure that stormwater control systems shall be installed to prevent off-site mud deposition.</p> <p>i) All trucks hauling dirt away from the site shall be covered.</p> <p>j) The contractor shall ensure that construction vehicle tires shall be washed, prior to leaving the Project site.</p> <p>k) The contractor shall ensure that rumble plates shall be installed at construction exits from dirt driveways.</p> <p>l) The contractor shall ensure that paved access driveways and streets shall be washed and swept daily when there are visible signs of dirt track-out.</p> <p>m) Street sweeping shall be conducted daily when visible soil accumulations occur along site access roadways to remove dirt dropped or tracked-out by construction vehicles. Site access driveways and adjacent streets shall be washed daily, if there are visible signs of any dirt track-out at the conclusion of any workday and after street sweeping.</p> <p>n) The contractor shall post the phone number of the SCAQMD for complaints regarding excessive fugitive dust generation.</p> <p>[Sources: California Air Resources Board, http://www.arb.ca.gov/planning/sip/planarea/scabsip.htm#2012_plan, Accessed October 22, 2014; and Eilar Associates, Inc., Revised Air Quality and Greenhouse Gas Assessment, October 8, 2015 (see Attachment D)].</p>
<p>Farmland Protection Policy Act [7 CFR 658]</p>	<p>The Project site is not identified on any Agricultural Preserve map or identified as land under Williamson Act contract, and is not mapped as prime or unique farmland or farmland of local importance. The Project site is not zoned for agriculture use. There are no farmlands or agricultural uses located on the Project site or in its vicinity.</p> <p>[Sources: California Department of Conservation Website, Farmland Mapping and Monitoring Program, San Bernardino County Important Farmland Map (Sheet 2 of 2) dated 2010, ftp://ftp.consrv.ca.gov/pub/dlrp/FMMP/pdf/2010/sbd10so.pdf, accessed October 2, 2014; California Department of Conservation Website, Williamson Act Program, San Bernardino County Williamson Act FY 2012/2013 Map, Sheet 2 of 2, ftp://ftp.consrv.ca.gov/pub/dlrp/wa/sanbernardinoso1213WA.pdf, accessed October 2, 2014.]</p>
<p>Environmental Justice [Executive Order 12898]</p>	<p>Development of the site with Multiple Residential (i.e., multi-family apartment units) is not permitted pursuant to Project site's current designation under the San Bernardino County Development Code, and thus would conflict with the General Plan. The Project would require rezoning to a residential zone, as most of the site is currently zoned</p>

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	<p>Commercial General. The development would house low- and very low- income families. The surrounding land uses would not create nuisances or hazards that would impact the proposed housing. Similarly, given its nature and scope, the proposed residential development would not adversely affect the surrounding uses. Additionally, there are no adverse environmental conditions affecting the Project site. With the inclusion of the recommended mitigation measures, the Project would not expose low income or minority populations to adverse environmental conditions.</p> <p>[Sources: County of San Bernardino 2007 General Plan, Amended May 22, 2012; San Bernardino County Land Use Plan General Plan Land Use Zoning Districts Map, http://cms.sbcounty.gov/Portals/5/Planning/ZoningOverlayMaps/LUZD/FH29A_20100422.pdf, accessed October 2, 2014); County of San Bernardino 2007 Development Code, Amended August 21, 2014; Revised Air Quality and Greenhouse Gas Report, Eilar Associates, October 2015]</p>
<p>Noise Abatement and Control [24 CFR 51 B]</p>	<p>Based on a Project-specific noise analysis, , the primary noise sources in the vicinity are traffic noise from I-10, Valley Boulevard, and Cypress Avenue, and railway noise from the adjacent Union Pacific train lines. The County requires that outdoor activity areas of noise sensitive land uses have noise levels of 65 CNEL or less. With the proposed building structures in place and a site perimeter wall, all designated outdoor use areas are anticipated to meet the 65 CNEL noise limit.</p> <p>Due to high exterior noise levels at building facades, an exterior-to-interior noise analysis is required by the California Building Code, prior to approval of building permits, to determine building features necessary to reduce interior noise levels to 45 CNEL or less in residential spaces, as required by the State of California and the County of San Bernardino. This analysis will be conducted when building plans become available.</p> <p>Project-generated noise impacts to surrounding properties are expected to be insignificant. Noise levels from ground-mounted air conditioning equipment will not exceed the applicable noise limits set by the County at any surrounding property lines, in compliance with the County of San Bernardino Development Code. Project-generated traffic noise will have an insignificant impact on surrounding properties. Temporary noise impacts from construction on-site are expected to be controllable by standard construction noise control methods including adhering to permissible hours of operation, maintaining equipment in proper operating condition, and placing staging areas at farthest locations from noise sensitive receivers; see Mitigation Measures NOI-2 and NOI-3.</p> <p>The Project would not materially worsen or exceed any established noise standards, and therefore would not adversely affect the existing or future noise-sensitive land uses surrounding the Project site.</p>

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	<p>There are no airports or private airstrips located within two miles of the Project site. The Noise Hazard (NH) Overlay depicted on the County's Hazard Overlay Map applies to noise contours 65 CNEL or greater. The Project site is not within a mapped NH Overlay District. Additionally, the Project is not located within the delineated 60 or greater CNEL contours of the Flabob Airport or Rialto Municipal Airport or delineated 65 or greater CNEL contours of the San Bernardino International Airport.</p> <p>NOI-1: Prior to the issuance of building permits, the Project applicant shall conduct an exterior-to-interior noise analysis based on building plans and include any building features necessary to achieve an interior noise level of 45 CNEL or less within residential spaces.</p> <p>NOI-2: Implement standard construction noise controls including:</p> <ol style="list-style-type: none"> 1. Adhere to permissible hours of operation consistent with County requirements; 2. Maintain equipment in proper operating conditions, including mufflers; and 3. Place staging areas at farthest locations from noise sensitive receivers. <p>NOI-3: The construction contractor shall locate equipment staging in areas that will create greatest distance between construction-related noise sources and noise sensitive receptors nearest the project site during all project construction activities.</p> <p>[Sources: Acoustical Analysis Report (Eilar Associates, Inc. 2014), see Attachment F; County of San Bernardino 2007 General Plan Noise Element Amended April 24, 2014); San Bernardino County Land Use Plan General Plan Hazard Overlay Map, website: www.sbcounty.gov/uploads/lus/hazmaps/fh29b_20100309.pdf, accessed October 2, 2014; County of San Bernardino Airport Land Use Compatibility Plans, website: http://cms.sbcounty.gov/lus/Planning/AirportLandUse.aspx, accessed October 2, 2014; Riverside County Airport Land Use Commission Airport Maps, website: www.rcaluc.org/maps.asp, accessed October 2, 2014; Riverside County Airport Land Use Compatibility Plan Volume 1 Policy Document (Riverside County Airport Land Use Commission October 14, 2004), website: www.rcaluc.org/plan_new.asp, accessed October 2, 2014; County of San Bernardino 2007 Development Code Amended August 21, 2014; and San Bernardino International Airport Authority Airport Layout Plan Narrative Report, 2010, website: http://sbdairport.com/our_organization/documents/AirportDocuments/ALP%20Narrative%20Report.pdf, accessed October 2, 2014].</p>
<p>Toxic or Hazardous Substances and Radioactive Materials [HUD Notice 79-33]</p>	<p>A review of Federal and State environmental databases was conducted as part of the Phase I Environmental Site Assessment (Phase I). The Project site is not included on a list of hazardous materials sites compiled pursuant to Government Code Section 6592.5. Additionally, according to the Phase I, none of the other sites listed on the</p>

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	<p>regulatory database report pose a serious threat to the Project site. A Tier I and Tier II Vapor Encroachment Screen was conducted for the Project site, and concluded that the adjacent and surrounding sites do not pose a serious threat in this regard. The San Bernardino County Fire Department (SBCFD) identified records for the address 275 Cypress Avenue within the previous December 2011 Phase I Report. The records that were identified related to a 2006 hazardous materials spill after a car reportedly hit a transformer on-site, causing a release of approximately 39 gallons of mineral oil. The release case was reported as “resolved” and “closed” by the SBCFD. However, the soils were still analyzed for presence of PCBs, as discussed below.</p> <p>The Phase I evaluated previous uses of the Project site for the potential presence of recognized environmental conditions. The Project site was previously utilized for agricultural uses until the 1950s. An Assessment conducted by Andersen Environmental in January of 2012 reviewed results from a previous sampling event on the Parcel 0274-182-43 in order to evaluate the presence of agricultural chemicals or organochlorine pesticides (OCPs), as well as arsenic on the subject site. No OCPs were detected in the samples, but four samples revealed background concentrations of arsenic (which naturally occurs in local area soils). Additionally, PCBs were encountered in at least one of the samples; thus, additional laboratory analysis was conducted for PCBs. Two of the samples revealed PCB concentrations above the residential California Human Health Screening Level (CHHSL) of 89 micrograms per kilogram. The source of the PCBs was estimated to be due to a minor release of hydraulic fluids used in heavy agricultural equipment. Thus, it is recommended that the two PCB-impacted soil locations be removed via excavation (10’ by 10’ by 1’ in size).</p> <p>Additional sampling was performed in December of 2012 by Andersen Environmental. One sample was found to contain OCPs in excess of residential California Human Health Screening Level (CHHSL), specifically Dieldrin and Technical Chlordane. No PCBs were detected in the soil samples. Arsenic was detected in all four of the samples, but each of the concentrations detected are considered to represent naturally occurring background levels.</p> <p>In January of 2013, two soil samples were found to contain elevated Dieldrin (a pesticide) and Chlordane concentrations. Chlordane was commonly used until 1988 as an insecticide for treating homes for termites, for crops such as corn and citrus, and on lawns and domestic gardens. Additional samples were analyzed to achieve vertical and lateral delineation of the elevated concentrations. These additional borings contained Dieldrin and Chlordane above the residential CHHSL. In order to achieve the desired delineation, Andersen Environmental completed another sampling event on March 4, 2013. Sampling revealed that pesticide impacts within the northwest corner of Parcel 027-182-46 were found to be no greater than approximately 2 feet below ground surface (bgs). Approximately 444 cubic yards (100’ x 60’ x 2’) of pesticide-impacted soil will be required to be removed to eliminate the potential for excessive pesticide exposure at the site.</p>

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	<p>Rincon Consultants Inc. prepared an Additional Site Characterization Report dated January 14, 2016, to identify data gaps within the Site Conceptual Model (presented in the December 2015 Site Characterization Workplan). This included soil analysis for lead, asbestos, and petroleum hydrocarbons and further soil analysis within the footprints of former barn structures where materials might have been stored. Detected concentrations of Arsenic, Cobalt, Thallium, and Vanadium identified at the site appear to be background concentrations and do not appear to be the result of a release at the site. Chlordane is the only OCP that was detected at a concentration above residential screening levels (CHHSL) and was found in only one of the surface samples. It is recommended that the areas where elevated Technical Chlordane was found be excavated and disposed of prior to development</p> <p>The property owner is working with the DTSC to finalize and implement a remediation plan for the Project site consistent with the development of residential uses. Rincon Consultants Inc. prepared a Draft Removal Action Workplan for the site, detailed further below. Refer to Mitigation Measure HAZ-1. A community meeting is tentatively scheduled in April to discuss potential contamination issues and the DTSC's role and plans to provide oversight regarding the site remediation activities.</p> <p>Asbestos Containing Materials (ACMs) were identified within the structure on-site located at 291 Cypress Avenue. ACMs were found in the Black Roofing Mastic, and additional ACMs were found in the Plaster Material and suspected to exist within a 6-inch diameter transit pipe running from the roof through the kitchen. On April 11, 2013, Andersen Environmental conducted a visual "clearance" of the asbestos abatement work performed at the Project site. It was confirmed that all ACMs and Asbestos Containing Construction Materials (ACCMs) identified in the Andersen Environmental Pre-Demolition Asbestos Assessment Report (February 13, 2013) had been removed from the site. Thus, ACMs and ACCMs no longer present a concern to the Project site.</p> <p>Due to the presence of OCPs and PCBs, and the need for remediation, the applicant has entered into a Voluntary Cleanup Agreement (VCA) with the DTSC for regulatory oversight to remove the impacted soils from the Project site. A Preliminary Site Characterization Workplan (Anderson 2015) has been developed for the Project site, and outlines a plan for sampling on the Project site. Based on the assessment of the sampling results (see above), a Removal Action Plan was developed to include recommendations that need to be implemented in order for the site to be considered appropriate for residential development. A Draft Removal Action Workplan (RAW) has been developed by Rincon Consultants Inc., and is currently being reviewed by the DTSC for approval. The Draft RAW provides guidance and methods to excavate, profile, properly handle and dispose of the soil identified to be impacted by OCPs and PCBs. According to the RAW, at the end of</p>

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	<p>removal action activities, a removal excavation completion report will be prepared summarizing the soil excavation activities, analytical results of stockpile and confirmation soils testing and sample locations. A closure request will be included in this report, which if granted, will allow the Project site to be developed with residential uses.</p> <p>DTSC approval of the action plan would be required prior to grading, and demonstration of soil contaminant levels below the applicable residential CHHSLs would be required prior to occupancy; Mitigation Measure HAZ-1 is required.</p> <p>HAZ-1: Prior to the issuance of a grading permit, the Project Applicant shall provide documentation to the County of San Bernardino indicating DTSC approval of a plan containing all corrective measures required for the Project to remove contaminated soil.</p> <p>Prior to the issuance of an occupancy permit, the Applicant shall implement all feasible corrective measures and establish any ongoing measures required (e.g., monitoring) to demonstrate that on-site soils are within residential California Human Health Screening Levels for constituents of concern.</p> <p>[Sources: Phase I ESA (Andersen Environmental 2013); Environmental Sampling (Andersen Environmental 2012); Pre-Demolition Asbestos Assessment Report (Andersen Environmental 2013); Pre-Demolition Lead-Based Paint Inspection Report (Andersen Environmental, 2013); Asbestos Abatement Plan (Andersen Environmental 2013); Lead Compliance Work-Plan (Andersen Environmental 2013); Preliminary Site Characterization Workplan (Anderson Environmental 2015); Additional Site Characterization Workplan (Rincon Consultants, Inc., 2016); Draft Removal Action Workplan (Rincon Consultants Inc., 2016) all included in Attachment E.]</p>
<p>Siting of HUD-Assisted Projects near Hazardous Operations [24 CFR 51 C]</p>	<p>There are no land uses that store above-ground, or handle or process, flammable or combustible chemicals in the Project's vicinity. The Project would not expose occupants or buildings to hazardous operations. As identified in the Phase I ESA conducted by Andersen Environmental in 2013, none of the surrounding sites present a threat to the Project site as there is no indication of a recent or past release at the respective sites, or the sites are located cross or down gradient of the subject property.</p> <p>[Sources: Phase I ESA (Andersen Environmental, March 14, 2013); Environmental Sampling (Andersen Environmental, January 20, 2012); Pre-Demolition Asbestos Assessment Report (Andersen Environmental, February 13, 2013); Asbestos Abatement Plan (Andersen Environmental, March 11, 2013); Lead Compliance Work-Plan (Andersen Environmental, March 11, 2013); Preliminary Site Characterization Workplan (Andersen Environmental 2015) all included in Attachment E.]</p>
<p>Airport Clear Zones and Accident Potential Zones [24 CFR 51 D]</p>	<p>There are no airports or private airstrips located within two miles of the Project site. The nearest airport/runway facility to the Project site is the San Bernardino International Airport, located approximately 5</p>

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	<p>miles to the northeast. Two additional airport/runway facilities nearby the Project site include the Rialto Municipal Airport, located approximately 5.8 miles to the northwest, and Flabob Airport, located approximately 6.7 miles to the southwest. The Project site is not located within the airports' Runway Protection Zones (previously the Clear Zones) or Accident Potential Zones. Additionally, the County's Airport Safety (AR) Overlay (Development Code Sections 82.01.020 and 82.01.030) establishes requirements for land use compatibility reviews within designated areas close to a public use airport or heliport. As shown on the Land Use Plan, the Project site is not within a mapped AR Overlay boundary.</p> <p>[Sources: Airport Land Use Compatibility Plans, http://cms.sbcounty.gov/lus/Planning/AirportLandUse.aspx, accessed October 2, 2014; Riverside County Airport Land Use Commission Airport Maps, http://www.rcaluc.org/maps.asp, accessed October 2, 2014; Riverside County Airport Land Use Compatibility Plan Volume 1 Policy Document, October 14, 2004, www.rcaluc.org/plan_new.asp, accessed October 2, 2014; San Bernardino County General Plan Hazard Overlay Map, www.sbcounty.gov/uploads/lus/hazmaps/fh29b_20100309.pdf, accessed October 2, 2014; and County of San Bernardino 2007 Development Code, amended August 21, 2014.]</p>

ENVIRONMENTAL ASSESSMENT CHECKLIST

[ENVIRONMENTAL REVIEW GUIDE HUD CPD 782, 24 CFR 58.40; REF. 40 CFR 1508.8 & 1508.27]

Evaluate the significance of the effects of the proposal on the character, features and resources of the Project area. Enter relevant base data and verifiable source documentation to support the finding. Then enter the appropriate impact code from the following list to make a finding of impact.

Impact Codes: (1)—No impact anticipated; (2)—Potentially beneficial; (3)—Potentially adverse; (4)—Requires mitigation; (5)—Requires Project modification.

Land Development	Code	Source or Documentation
Conformance with Comprehensive Plans and Zoning	3	<p>The County of San Bernardino is divided into three planning regions including the Desert Region, Valley Region, and Mountain Region. The City of Colton and surrounding unincorporated areas are located within the Valley Region. The Valley Planning Region encompasses 500 square miles and contains approximately 75 percent of the County's population. The County utilizes a "one map approach" that provides both the General Plan land use designation, as well as the zoning district on one map. Two parcels of the Project site are zoned CG General Commercial by the San Bernardino County Municipal Code, Title 8, Development Code. The purpose of the CG General Commercial designation is to generally provide appropriately located areas for retail, offices and service establishments, with a wide variety of commodities and services that meet local needs.</p> <p>The northwestern parcel (APN 274-182-34) is zoned RS Single Residential. The project would require a lot merger to combine the three parcels into one parcel. The proposed multi-family residential development is not permitted within the general commercial or Single Residential zones. The Project would require a General Plan amendment from Single Residential (RS) and Commercial General (CG) to Special Development-Residential (SD-Res). The Project would also require a Planned Development Permit, pursuant to County of San Bernardino Development Code requirements and standards. The Planned Development Permit would allow flexibility to the Project in regard to the application of development standards.</p> <p>The proposed zoning would be in accordance with surrounding residential uses. Furthermore, the Project would provide a substantial number of affordable housing units in place of the existing vacant property. Additionally, the County's Development Review Committee would review the application for the Project. The County's review of the proposed Project would ensure that the Project conforms to the proposed zoning as well as the general intent and purpose of the Development Code.</p> <p>(1) The County must make the following findings prior to approving the General Plan Amendment:</p>

Land Development	Code	Source or Documentation
		<p>(A) The proposed amendment is internally consistent with all other provisions of the respective plan, the General Plan or an applicable specific plan; and</p> <p>(B) The proposed amendment would not be detrimental to the public interest, health, safety, convenience, or welfare of the County.</p> <p>(2) If the General Plan amendment proposes to change a land use zoning designation from one zone to another, the Board shall first make the two findings above plus all of the following additional findings:</p> <p>(A) The proposed land use zoning district change is in the public interest, there will be a community benefit, and other existing and allowed uses will not be compromised;</p> <p>(B) The proposed land use zoning district change will provide a reasonable and logical extension of the existing land use pattern in the surrounding area;</p> <p>(C) The proposed land use zoning district change does not conflict with provisions of this Development Code;</p> <p>(D) The proposed land use zoning district change will not have a substantial adverse effect on surrounding property; and</p> <p>(E) The affected site is physically suitable in terms of design, location, shape, size, operating characteristics, and the provision of public and emergency vehicle (e.g., fire and medical) access and public services and utilities (e.g., fire protection, police protection, potable water, schools, solid waste collection and disposal, storm drainage, wastewater collection, treatment, and disposal, etc.), to ensure that the proposed or anticipated uses and/or development would not endanger, jeopardize, or otherwise constitute a hazard to the property or improvements in the vicinity in which the property is located.</p> <p>Each of the issues included within the above findings is addressed within this document. In summary, the Project site's location on a vacant parcel adjacent to existing residential development is a reasonable and logical extension of the existing land use pattern in the area. Development of the Project will ensure that future potentially incompatible commercial development does not locate adjacent to the existing residences, which would otherwise be permitted under the existing zoning designations. The Project will provide a significant community benefit by providing affordable housing for low- and very-low income families, as well as other on-site amenities to serve residents. Mitigation measures identified herein will ensure that the Project would not be detrimental to the public interest, health, safety, convenience, or welfare. The Project site is also served by existing roadway and utility infrastructure, as well as adequate public services (see Compatibility and Urban Impact, below).</p> <p>[Sources: County of San Bernardino 2007 General Plan, adopted in 2007, as amended in April of 2014.; County of San</p>

Land Development	Code	Source or Documentation
		Bernardino 2007 Development Code, adopted March of 2007, as amended in August of 2014, accessed 10.07.14 http://www.sbcounty.gov/Uploads/lus/DevelopmentCode/DCWebsite.pdf#PAGE=97 ; Project Information—Las Terrazas at Colton CA, Unincorporated San Bernardino County, Withee Malcolm Architects, LLP, January 2016.]
Compatibility and Urban Impact	3	<p>Development of the proposed Project would require approval of a zone change to Special Development Residential (SD-Res), and a Planned Development Permit to allow the construction of 112 units and daycare facilities on-site. The Project, as designed and conditioned, would be compatible with the existing and planned residential land use character of the surrounding area. The zone change and Planned Development Permit would be issued dependent upon the Project satisfying the development standards for such requests including size, density, structure, design, and placement of features. Compliance with the relevant Development Code provisions, which would be verified through the County's development review process, would implement the General Plan goals and ensure land use compatibility. Furthermore, the surrounding residential and minor commercial uses would not create any hazards or nuisances that could impact the Project. In a similar regard, the Project would be of similar character as surrounding uses, and would not negatively affect the properties in the vicinity. Compliance with the Development code would ensure the Project would not be detrimental to the County's public interest, health, safety, convenience, welfare, or compromise other land uses.</p> <p>The site is currently vacant, thus the Project would not displace any housing or individuals, nor would it divide an existing community as the three parcels are contingent, and the Project does not propose any substantial road improvements or railroad tracks, etc. The site is also located along a Major Arterial roadway, West Valley Boulevard, within an urban setting.</p> <p>The Project would provide 112 affordable housing units within the County of San Bernardino. Under the assumption of 3.51 persons per household (State of California, Department of Finance), population growth attributable to the Project would consist of in an increase of approximately 393 persons. According to the newly adopted Housing Element for the County of San Bernardino, children ages 5-17 that populate Elementary, Middle, and High schools make up 21.4% of the total county population. This correlates to 84 school-age children out of the 393 person increase generated by the Project. An addition of 84 students into the Colton Joint USD (CJUSD) is not anticipated to exceed the current school capacity. According to Owen Chang, Director of Facilities, Planning and Construction for CJUSD the Project would be</p>

Land Development	Code	Source or Documentation
		<p>required to pay the appropriate Development Fees of \$3.20 per sf of residential construction, thereby offsetting Project impacts to schools.</p> <p>The Project would induce population growth in the area relative to current conditions, considering that the site is currently vacant. However, the Project is within the acceptable density range for the County's RM Multiple Residential zoning.</p> <p>The Project's impact to population would be minimal as compared to the buildout of the General Plan. Furthermore, the Project would provide housing that serves a particular purpose; providing individuals and families of low and very-low incomes with much needed housing opportunities. Additionally, there are sufficient infrastructure and public services available to accommodate the local population growth. Adverse impacts would not occur.</p> <p>[Sources: State of California, Department of Finance, E-5 Population and Housing Estimates for Cities, Counties and the State January 1, 2011- 2014. Sacramento, California, May 2014; County of San Bernardino 2007 General Plan, adopted in 2007, as amended in April of 2014.; County of San Bernardino 2007 Development Code, adopted March of 2007, as amended in August of 2014, website: www.sbcounty.gov/Uploads/lus/DevelopmentCode/DCWebsite.pdf#PAGE=97, accessed October 7, 2014; CJUSD, Owen Chang, January 22, 2014.]</p>
Slope	1	<p>The Project site is located on a valley floor and is relatively flat. The site slopes gently to the south and southwest with approximately 10 feet of vertical relief across the site. Grass and shrubs are located throughout the site. The County's Geologic Hazard Overlay Map depicts areas subject to potential geologic issues including landslides, debris/mud flow, rockfall, etc. The Project site is not located within an area mapped within the Geologic Hazard (GH) Overlay, and there are no significant slopes within the surrounding area.</p> <p>[Sources: San Bernardino County Geologic Hazards Overlay Map, website: www.sbcounty.gov/Uploads/lus/GeoHazMaps/FH30C_20100309.pdf, accessed October 6, 2014.]</p>
Erosion	4	<p>The 5.92-acre Project site is vacant and unimproved, with the footprint of a previously existing (demolished) residence on-site. Soils on-site are primarily classified as TuB-Tujunga loamy sand, 0 to 5 percent slopes. Additionally, a small portion of land along the western border contains Delhi fine sand. Runoff potential is considered very low. Water erosion hazard is slight and wind erosion hazard is moderate to high on bare soils. Development of the Project site would require clearing of existing shrubs and grasses, as well as grading throughout the site. During construction, the Project could potentially cause</p>

Land Development	Code	Source or Documentation
		<p>wind and water erosion. The Project would disturb more than one acre of soil, and would thereby be required to obtain a General Permit for Discharges of Storm Water Associated with Construction Activity Construction General Permit Order 2009-0009-DWQ. To obtain the permit, the Applicant shall electronically file the Permit Registration Documents (PRDs), which include a Notice of Intent (NOI), Storm Water Pollution Prevention Plan (SWPPP) that includes BMPs and other requirements. A Waste Discharge Identification (WDID) number is also required prior to the issuance of Building or Grading Permits. The Project shall also comply with County Development Code Section 85.11.030, Soil Erosion Pollution Prevention Plan and Inspection Required, which requires that the Project obtain approval of erosion control measures to ensure that erosion would not reasonably be expected to occur.</p> <p>The Project would establish buildings, landscaping, and associated features on a currently vacant site, which would reduce the amount of exposed soils present on-site, thereby reducing soil erosion in the long-term. Mitigation Measure HYD-1 is required.</p> <p>HYD-1: Prior to issuance of Grading or Building Permit, the Project shall obtain coverage under the General Permit for Discharges of Storm Water Associated with Construction Activity Construction General Permit Order 2009-0009-DWQ, which includes filing a Notice of Intent (NOI) and preparation of a Storm Water Pollution Prevention Plan (SWPPP), and shall provide evidence to the County of compliance with Development Code Section 85.11.030, which requires preparation of Soil Erosion Pollution Prevention Plan and inspection.</p> <p>[Sources: San Bernardino County Geologic Hazards Overlay Map, website: www.sbcounty.gov/Uploads/lus/GeoHazMaps/FH30C_20100309.pdf, accessed October 6, 2014; USDA-NRCS, National Web Soil Survey, website: http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx, accessed October 6, 2014.]</p>
Soil Suitability	4	<p>The site is located along the eastern edge of the Chino Basin, which encompasses a broad area of coalescing alluvial fans that extend southward from the San Gabriel Mountains. The Project site primarily consists of Tujunga Loamy Sand soils, with a small strip of Delhi fine sand located along the western border of the site. Various amounts of artificial fill were also encountered during the Geotechnical Investigation. Tujunga soils are considered somewhat excessively drained, with the parent material of alluvium derived from granite. These soils have low shrink-swell potential and are considered non-plastic. The small strip of Delhi fine sand is very unlikely to flood, is derived from alluvial fans, and does not present any concerns. The</p>

Land Development	Code	Source or Documentation
		<p>parent materials consist of sandy alluvium derived from granite. The site is not in the path of any known or potential landslides. According to the County of San Bernardino General Plan (2005) this site is not located in an area designated as “liquefiable.” As stated previously, the depth to groundwater at the site is greater than 50 feet beneath the existing ground surface. Based on these considerations, the potential for liquefaction of the site soils is low. In addition, According to the County of San Bernardino General Plan (2005) the site is not located within an area identified as having a potential for seismic slope instability. There are no known landslides near the site, According to the Updated Geotechnical Investigation, the upper few feet of soils encountered are considered to have a “very low” expansive potential; and are classified as “non-expansive” based on the 2010 California Building Code (CBC) Section 1803.5.3.</p> <p>According to the County’s Geologic Hazard Overlay Map, the Project site is not located within an area mapped as containing geological hazards. Pursuant to Development Code Chapter 87.08, Soils Reports, a Soils Report was prepared and included within this EA as Attachment H. The Soils Report states that the existing upper alluvial soils are subject to excessive hydro-consolidation upon saturation. Hydro-consolidation is the tendency of a soil structure to collapse upon saturation, resulting in the overall settlement of the effected soils and any overlying soils or foundations supported therein. Thus, Mitigation Measure GEO-1 is required.</p> <p>The proposed Project features, including all residential buildings, would be designed and constructed in accordance with the current edition of the California Building Code (CBC), as adopted by the County, and acceptable engineering practice. Mitigation Measure GEO-1 is required.</p> <p>GEO-1: Once project grading plans are prepared and available, the project geotechnical consultant shall review the grading plans relative to their recommendations in the Updated Geotechnical Investigation dated September 5, 2015 prepared by Geocon West, Inc. The geotechnical consultant shall prepare a Grading Plan Review Report, which shall be submitted the County for review and approval prior to grading permit issuance.</p> <p>[Sources: San Bernardino County Land Use Plan General Plan Geologic Hazards Overlay Map, website: www.sbcounty.gov/Uploads/lus/GeoHazMaps/FH30C_20100309.pdf, accessed October 6, 2014; USDA-NRCS, National Web Soil Survey, website: http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx, accessed October 6, 2014; Updated Geotechnical Investigation (Geoconn West, Inc. 2013)].</p>

<p>Hazards and Nuisances including Site Safety</p>	<p>4</p>	<p>The Project site is not at risk for hazards relating to slope instabilities or soil instabilities.</p> <p>San Bernardino County is considered to contain average radon concentrations below the 4.0 pCi/l action level set by the United States Environmental Protection Agency (EPA). Site specific radon levels vary between the EPA radon zones, however, there are no specific concerns at the site regarding radon levels.</p> <p>The Project site is not located within a State-designated Alquist-Priolo Earthquake Fault Zone, and is not within a State of California Special Studies Zone. No active or potentially active faults with the potential for surface fault rupture are known to pass directly beneath the site. The closest surface trace of an active fault to the site is the Rialto Colton Fault approximately 0.4 miles northeast of the site. Other nearby active faults include the San Jacinto Fault zone, the San Andreas Fault Zone, the Mill Creek Fault, and the Crafton Hills Fault Zone located 2.0 miles northeast, 8.0 miles northeast, 8.3 miles east-southeast of the site, respectively. The closest potentially active fault to the site is the Little Creek Fault located approximately 3.5 miles north of the site. Other nearby active faults are the Grass Valley Fault and the Tunnel Ridge Fault located approximately 15 miles north and 15 miles north-northeast of the site, respectively. The site could be subjected to moderate to severe ground shaking in the event of the major earthquake on any of the faults references above or other faults in Southern California. With respect to seismic shaking, the site is considered comparable to the surrounding developed area.</p> <p>The Project would not be subject to substantial effects due to ground shaking because structures and foundations would be constructed and designed in conformance with the current edition of the CBC, as adopted by the County, and acceptable engineering practice. The updated Geotechnical Report (Geocon West Inc. 2014) concludes that neither soil nor geologic conditions were encountered during the investigation that would preclude the construction of the proposed development provided the recommendations presented herein are followed and implemented during design and construction. Thus, the project shall comply with all recommendations contained within the 2014 Report, as outlined in Mitigation Measure GEO-1. The Project site is located within a primarily residential area, with minimal open space (other than the Project site itself). There are no wildlands near the site, thus the site is not at risk for wildland brush fires. The Project site was evaluated using the County's various Hazard Overlay Maps that depict areas of concern involving airports, dams, fires, geological hazards, hazardous wastes, etc. The Project site is not located within areas mapped as containing such hazards.</p> <p>Furthermore, the Project site is not located within areas of known hazards/nuisances involving high voltage transmission</p>
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		<p>electrical lines, odors, or open drainage ditches. Mitigation Measure AQ-3 would reduce any potential odor impacts from the project to less than significant.</p> <p>Federal and State environmental databases were evaluated as part of the Phase I investigation, and none of the surrounding sites were found to present a threat to the Project site as there is no indication of a recent or past release at the respective sites, or the sites are located cross or down gradient of the subject property. There were prior concerns at the site related to ACMs and lead-based paint, however, these materials were abated prior to demolition of the former residence on-site. Chemicals in the soils relating to past agricultural use were also found on-site in excess of residential CHHSLs, thus remediation is required to address potential soil hazards. PCBs were also found in soils on-site, and these contaminated soils would also need to be remediated; refer to Mitigation Measure HAZ-1.</p> <p>Dust and noise would be controlled via standard construction suppression measures, see Mitigation Measure AQ-1.</p> <p>The Project site does not currently contain any sources of lighting, other than street lighting along West Valley Boulevard. The Project area is classified as primarily residential, and contains corresponding lighting elements typical of residential areas. The Project would include the establishment of exterior lighting within parking lots and recreation areas, and interior lighting within the residences as well as the community center and daycare buildings. The County would review the site plan to ensure compliance with the Development Code in relation to site lighting and safety. Thus, the Project would not create a new source of substantial light or glare, which would adversely affect day or nighttime views in the area.</p> <p>Site access would be provided via West Valley Boulevard. No traffic signals are proposed for the main access point into Project site, and proper signage would be installed.</p> <p>GEO-1: Once project grading plans are prepared and available, the project geotechnical consultant shall review the grading plans relative to their recommendations in the Updated Geotechnical Investigation dated September 5, 2015 prepared by Geocon West, Inc. The geotechnical consultant shall prepare a Grading Plan Review Report, which shall be submitted the County for review and approval prior to grading permit issuance.</p> <p>HAZ-1: Prior to the issuance of a grading permit, the Project Applicant shall provide documentation to the County of San Bernardino indicating DTSC approval of a plan containing all corrective measures required for the Project to remove contaminated soil.</p> <p>Prior to the issuance of an occupancy permit, the Applicant shall implement all feasible corrective measures and establish any ongoing measures required (e.g., monitoring) to</p>
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Land Development	Code	Source or Documentation
		<p>demonstrate that on-site soils are within residential California Human Health Screening Levels for constituents of concern.</p> <p>AQ-3: Odors Reporting. Prior to site disturbance and grading activities, the contractor shall provide a cell phone number, assigned to a superintendent on the job, to members of the public residing abutting the project site along the north and east property boundaries and to members of the public residing on the east side of Cypress Avenue, between Valley Boulevard and Jackson Street for reporting odors associated with the project during site disturbance and or grading/construction activities.</p> <p>[Sources: USDA-NRCS, National Web Soil Survey website: http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx, accessed October 6, 2014; California Department of Conservation, Regulatory Maps, website: http://www.quake.ca.gov/gmaps/WH/regulatorymaps.htm, accessed October 6, 2014; Traffic Impact Analysis (Linscott Law and Greenspan, 2013); Updated Geotechnical Investigation, (Geoconn West, Inc. 2013); Phase I ESA (Andersen Environmental 2013); Environmental Sampling (Andersen Environmental 2012); Preliminary Site Characterization Workplan (Andersen Environmental 2015); San Bernardino County Land Use Plan General Plan Geologic Hazards Overlay Map, website: www.sbcounty.gov/Uploads/lus/GeoHazMaps/FH30C_20100309.pdf, accessed October 6, 2014].</p>
Energy Consumption	1	<p>The Project includes design features that would reduce Project-related energy consumption, with resultant reductions in GHG emissions. The Project would comply with Title 24 requirements, as well as the California Green Building Code standards. Title 24 addresses the use of energy-efficient building standards, including ventilation, insulation, and construction, as well as the use of energy saving appliances, conditioning systems, water heating, and lighting. The Project will seek LEED Silver Certification with advanced lighting, high-efficiency appliances, and appropriate HVAC refrigerants. Additionally, solar panels would be installed on all carports, thereby reducing the Project's non-renewable energy consumption.</p> <p>The Project site is located within OmniTrans's fixed-route service area and served by Route 1, with the north and southbound lines, which provide hourly service for approximately 16 hours on weekdays, 14 hours on Saturdays, and 11 hours on Sundays.</p> <p>The Project's proximity to public transit, shopping and employment centers, schools, recreational facilities, social services, health care services, etc. has potential to reduce reliance on personal motor vehicles and could therefore potentially reduce consumption of fossil fuels.</p>

Land Development	Code	Source or Documentation
		<p>[Sources: OmniTrans Website, Schedules/Maps, website: www.omnitrans.org/schedules/route1/, accessed November 19, 2014; California Energy Commission, 2008 Building Energy Efficiency Standards for Residential and Non-Residential Buildings, website: www.energy.ca.gov/2008publications/CEC-400-2008-001/CEC-400-2008-001-CMF.PDF, accessed June 8, 2013].</p>
Noise—Contribution to Community Noise Levels	1	<p>Based on traffic data from the <i>Laz Terrazas Project Traffic Impact Analysis</i>, vehicular noise generated by the Project would not materially worsen or exceed any established standards, and therefore would not adversely affect the existing or future noise-sensitive land uses surrounding the Project site.</p> <p>There are no airports or private airstrips located within two miles of the Project site. The Noise Hazard (NH) Overlay depicted on the County’s Hazard Overlay Map applies to noise contours 65 CNEL or greater. The Project site is not within a mapped NH Overlay District. Additionally, the Project is not located within the delineated 60 or greater CNEL contours of the Flabob Airport or Rialto Municipal Airport.</p> <p>[Sources: Laz Terrazas Project Traffic Impact Analysis (Linscott Law and Greenspan Engineers 2013) [see Attachment G]; County of San Bernardino 2007 General Plan Noise Element (amended April 24, 2014); San Bernardino County Hazard Overlay Map, website: www.sbcounty.gov/uploads/lus/hazmaps/fh29b_20100309.pdf, accessed October 2, 2014; Airport Land Use Compatibility Plans, website: http://cms.sbcounty.gov/lus/Planning/AirportLandUse.aspx, accessed October 2, 2014; Riverside County Airport Land Use Commission Airport Maps, website: www.rcaluc.org/maps.asp, accessed October 2, 2014; Riverside County Airport Land Use Compatibility Plan Volume 1 Policy Document, October 14, 2004, website: www.rcaluc.org/plan_new.asp, accessed October 2, 2014; and County of San Bernardino 2007 Development Code, amended August 21, 2014.]</p>
Air Quality Effects of Ambient Air Quality on Project and Contribution to Community Pollution Levels	4	<p>The Project site is located in the SCAB, which is designated extreme nonattainment area for ozone, and a non-attainment area for PM₁₀ and PM_{2.5}. The Project would be located within a “non-attainment” area that conforms with the EPA-approved State Implementation Plan (SIP), and requires no individual National Emissions Standards for Hazardous Air Pollutants (NESHAP) permit or notification for the Project. The Project would not exceed the SCAQMD’s localized or regional thresholds of significance for construction activities or long-term operations.</p> <p>Greenhouse gases (GHGs) are an area of recent concern and analysis in HUD documents. The Project would be compliant with Title 24 requirements, as well as the California Green Building Code standards. Furthermore, the Project is pursuing</p>

Land Development	Code	Source or Documentation
		<p>LEED Silver Certification Operational GHG emissions would be largely derived from passenger vehicles making trips to and from the site. The CalEEMod model runs calculated the Project's GHG emissions, which would be 423 metric tons of CO₂ equivalents during construction. The SCAQMD recommends amortizing construction emissions over a period of 30 years to estimate the contribution of construction emission to operational emissions over the Project lifetime. Amortized over 30 years, the construction of the Project will generate 14 metric tons of CO₂ equivalents on an annualized basis. Furthermore, the Project would generate a total of 1,393 metric tons of CO₂ equivalents during operation. Adding the amortized construction emissions results in approximately 1,407 metric tons of CO₂ equivalents.</p> <p>This level is below County of San Bernardino Greenhouse Gas Emissions Development Review Processes Plan threshold of 3,000 metric tons of CO₂ equivalents emissions for residential and commercial land uses. Mitigation Measures AQ-1 and AQ-2 are required.</p> <p>AQ-1: Dust Control Plan. Prior to Grading Permit or Building Permit issuance, the "developer" shall prepare, submit for review, and obtain approval from County Planning of both a Dust Control Plan (DCP) consistent with SCAQMD guidelines and a signed letter agreeing to include in any construction contracts/subcontracts a requirement that Project contractors adhere to the DCP requirements. The DCP shall include the following requirements:</p> <ul style="list-style-type: none"> a) Exposed soil shall be kept continually moist to reduce fugitive dust during all grading and construction activities, through application of water sprayed a minimum of three times each day during dry weather. Watering, with complete coverage of disturbed areas, shall occur at least three times a day, preferably in the mid-morning, afternoon, and after work is done for the day. b) The contractor shall ensure that traffic speeds on unpaved roads and the Project site areas are reduced to 15 miles per hour or less to reduce PM₁₀ and PM_{2.5} fugitive dust haul road emissions. c) Any portion of the site to be graded shall be pre-watered to a depth of three feet prior to the onset of grading activities. d) The contractor shall ensure that during high wind conditions (i.e., wind speeds exceeding 25 mph), areas with disturbed soil shall be watered hourly and activities on unpaved surfaces shall cease until wind speeds no longer exceed 25 mph. e) Any area that would remain undeveloped for a period of more than 30 days shall be stabilized using either chemical stabilizers and/or a desert wildflower mix hydroseed on the affected portion of the site.

Land Development	Code	Source or Documentation
		<p>f) The contractor shall ensure that storage piles that are to be left in place for more than three working days shall be sprayed with a non-toxic soil binder, covered with plastic or revegetated.</p> <p>g) The contractor shall ensure that imported fill and exported excess cut shall be adequately watered prior to transport, covered during transport, and watered prior to unloading.</p> <p>h) The contractor shall ensure that storm water control systems shall be installed to prevent off-site mud deposition.</p> <p>i) All trucks hauling dirt away from the site shall be covered.</p> <p>j) The contractor shall ensure that construction vehicle tires shall be washed, prior to leaving the Project site.</p> <p>k) The contractor shall ensure that rumble plates shall be installed at construction exits from dirt driveways.</p> <p>l) The contractor shall ensure that paved access driveways and streets shall be washed and swept daily when there are visible signs of dirt track-out.</p> <p>m) Street sweeping shall be conducted daily when visible soil accumulations occur along site access roadways to remove dirt dropped or tracked-out by construction vehicles. Site access driveways and adjacent streets shall be washed daily, if there are visible signs of any dirt track-out at the conclusion of any workday and after street sweeping.</p> <p>n) The contractor shall post the phone number of the SCAQMD for complaints regarding excessive fugitive dust generation.</p> <p>AQ-2: HVAC Requirements. The buildings will be equipped with a central heating, ventilation, and air conditioning (HVAC) system that includes high efficiency filters for particulates (Minimum Efficiency Reporting Value [MERV] 16). Any windows within a 500-foot distance to I-10 and facing the freeway are required to be inoperable, except as required for emergency egress. The project shall include tree plantings between residential dwellings and the freeway. To ensure long-term maintenance and replacement of the MERV filters in the individual units, the following shall occur:</p> <p>a) Developer, sale, and/or rental representative shall provide notification to all affected tenants/residents of the potential health risk for affected units.</p> <p>b) For rental units, the owner/property manager shall maintain and replace MERV filters in accordance with the manufacture's recommendations. The property owner shall keep a maintenance log schedule with proof of the filter replacements. Such log shall be available for inspection by the County of San Bernardino Building and Safety Department. The property owner shall inform renters of increased risk of exposure to diesel particulates when windows are open.</p> <p>c) Outdoor active-use public recreational areas, community center, and child care center associated with development</p>

Land Development	Code	Source or Documentation
		<p>project shall be located as far north in the project site plan as possible to distance these areas from the effects on Interstate 10 and the rail line.</p> <p>[Sources: California Air Resources Board, website: www.arb.ca.gov/planning/sip/planarea/scabsip.htm#2012_plan, accessed October 30, 2014; and Air Quality/Greenhouse Gas Report (Eilar Associates, Inc. 2015, see Attachment D); County of San Bernardino: http://www.sbcounty.gov/Uploads/lus/GreenhouseGas/FinalGHG.pdf.]</p>
Environmental Design Visual Quality—Coherence, Diversity, Compatible Use and Scale	1	<p>The Project site possesses minimal visual character, since it consists of mostly unpaved, unvegetated, disturbed, vacant land; only limited vegetation consisting of shrubs and grasses is located at the parcel edges. The Project site is bordered by multi-family residential, single-family residential and commercial uses. The visual character of the surrounding area is mixed and comprised of low-rise commercial developments, interspersed with residential uses. There are no scenic vistas or unique visual resources present on the Project site or in its vicinity. The Project site plan would include five residential buildings, with one located in the southwest corner, two in the northwest portion, and two buildings in the center of the site. All of the buildings would be three stories in height, with the exception of the northernmost building, which would be two stories in height. The daycare facility would be one story in height. The proposed multi-family residential development is not permitted within the general commercial or single-family residential zones. Therefore, the Project would require a General Plan amendment from Single Residential (RS) and Commercial General (CG) to Special Development-Residential (SD-Res) and an approval of a Planned Development (PD) Permit, pursuant to County of San Bernardino Development Code requirements and standards (Chapters 84.18 and 85.10). The Planned Development Permit would allow flexibility in the application of Development Code standards to the proposed housing development.</p> <p>Although the PD Permit would allow flexibility in the application of Development Code standards, the County’s Development Review Committee would evaluate the development relative to design, scale, and character issues to ensure it is consistent with the Development Code. The County’s review would also verify the Project’s compatibility with surrounding land uses and that its proposed use and design (i.e., visual character, scale, lighting, landscaping, etc.) do not depart significantly from the surrounding land uses and their design. Project implementation would not have a substantial adverse effect on a scenic vista or substantially degrade the existing visual character or quality of the site and its surroundings. Moreover, the Project would not result in adverse effects related to visual coherence, diversity, compatible use, or scale.</p>

Land Development	Code	Source or Documentation
		[Sources: County of San Bernardino 2007 Development Code, amended December 27, 2012.]

Socioeconomic	Code	Source or Documentation
Demographic Character Changes	2	<p>The Project is a 112-unit multi-family affordable housing development for low and very low-income households. The proposal would also include development of a 2,300 square foot community building, and a 2,500 sf daycare center (may be as large as 3,000 sf).</p> <p>The Project would not introduce any barriers, which would isolate a particular neighborhood or population group, nor would it destroy or harm any community institution. The Project would help the County meet its obligation to provide affordable 39 additional units pursuant to its RHNA and further the General Plan Housing Element Goals for the Valley Region, by developing at least a portion of the low-income housing needed.</p> <p>The Project would induce population growth on a localized basis, since it involves development of residential uses on a vacant site. Assuming 3.51 persons per household in the City of Colton (California Department of Finance 2014), Project implementation would result in a population growth of approximately 393 persons.</p> <p>[Sources: County of San Bernardino 2007 General Plan, amended April 24, 2014; County of San Bernardino 2007 Development Code, amended August 21, 2014; and State of California, Department of Finance, <i>E-5 Population and Housing Estimates for Cities, Counties and the State January 1, 2011-2014</i>, website: www.dof.ca.gov/research/demographic/reports/estimates/e-5/2011-20/view.php, accessed May 2014.]</p>
Displacement	1	<p>The Project site is vacant. Additionally, the site includes frontage along Valley Boulevard, a Major Arterial. The Project site is surrounded by residential uses to the north, a railroad and freeway to the south, residential and commercial uses to the east, and commercial uses to the west. Therefore, the Project would not displace housing or persons, or divide an existing community.</p> <p>[Sources: County of San Bernardino 2007 General Plan, amended April 24, 2014.]</p>
Employment and Income Patterns	2	<p>The Project site is vacant and there are currently no employment or income-generating uses on-site. In addition to temporary construction-related employment, the proposed development includes a Daycare Center and a community services building (totaling 6,300 sf) that would provide</p>

Socioeconomic	Code	Source or Documentation
		<p>employment opportunities to Project and local residents. The County of San Bernardino Department of Workforce Development would be involved with coordinating the Project's temporary construction and permanent operational employment opportunities with area residents.</p> <p>The Project site is located close to OmniTrans facilities (with the nearest bus stop located 0.1-mile southeast of the site), and the existing nearby public transit on Valley Blvd. would provide connections to local and regional employment centers. The Project is a 112-unit multi-family affordable housing development for low and very low-income households. The site would be developed under the Tax Credit Allocation Committee (TCAC) Program, ensuring qualifying applicants are approved between 30 and 60 percent of the AMI.</p>

Community Facilities and Services	Code	Source or Documentation
Educational Facilities	1	<p>The Project area is served by the Colton Joint Unified School District (CJUSD). The Project area is within the boundaries of the following schools: Paul J. Rogers Elementary, located approximately one mile northwest of the site at 955 W Laurel St, Colton; Colton Middle School, located approximately 1.5 miles northeast of the site, at 670 Laurel St, Colton; and Colton High School, located approximately 0.5 miles west of the site at 777 West Valley Blvd, Colton. The Project does not propose new or altered, formal educational facilities, but does include a Daycare Center serving on-site and off-site daycare needs. Any employment generation from the daycare or maintenance and operations of the Project facilities would be negligible in this regard. Owen Chang, Director of Facilities, Planning and Construction for CJUSD was contacted the week of January 25, 2016 in an effort to obtain any applicable comments the district may have regarding current school capacities (specifically). No response on this topic was received as of the date of this writing. Should the three schools previously referenced have full capacity, then the district is required to place the students in other schools within the district. The 84 additional students that could potentially be generated by the Project would represent a negligible increase in student enrollment within CJUSD. As part of a separate information request in July of 2014, Owen Chang stated that the Project would be required to pay the appropriate Development Fees, as detailed below.</p> <p>The Project is subject to payment of Development Fees (\$3.20 per sf of residential development), which would reduce any potential impacts to school services and facilities, in accordance with the California Government Code Section</p>

Community Facilities and Services	Code	Source or Documentation
		<p>65996, which provides that payment of school impact fees is considered full and complete mitigation for impacts to school facilities.</p> <p>[Sources: Colton Joint Unified School District Website, School Locator, website: http://apps.schoolsitetlocator.com/?districtcode=73293#, accessed October 7, 2014; Preliminary Development Plan, AMCAL 2016]</p>
Commercial Facilities	1	<p>The Project site is currently designated for General Commercial uses, and is presently underutilized as vacant land. Currently, there are no employment or income-generating uses on-site. The Project would generate temporary employment during construction. Additionally, the Project would contain a daycare center that would provide employment opportunities to Project and local residents. The Project would not affect any existing commercial facilities, and would be consistent with the County's General Plan and Development Code, upon approval of a General Plan amendment from Single Residential (RS) and Commercial General (CG) to Special Development-Residential (SD-Res) and a Planned Development Permit. The County will review the application, which would ensure the application is consistent with the purpose and intent of the Development Code and the General Plan. Approval of the Planned Development Permit would ensure the Project would not result in substantially adverse impacts involving commercial facilities.</p> <p>[Sources: County of San Bernardino 2007 General Plan, Adopted in 2007, as amended in April of 2014.; County of San Bernardino 2007 Development Code, adopted March of 2007, as amended in August of 2014, website: www.sbcounty.gov/Uploads/lus/DevelopmentCode/DCWebsite.pdf#PAGE=97, accessed October 7, 2014.]</p>
Health Care	1	<p>There are several health care facilities within the vicinity of the Project site. The Kaiser Permanente Fontana Medical Center is located 5.8 miles west of the Project site, at 9961 Sierra Avenue, Fontana. This Kaiser facility offers emergency, urgent care, and pharmacy services. Arrowhead Regional Medical Center is located approximately 0.8 miles west of the Project site, at 400 Pepper Avenue, Colton. This Medical Center is a premier health care facility with 456 beds. The Arrowhead Regional Medical Center operates a 24-Hour Emergency Department, a Level II Trauma Center, three Family Health Centers and the only Burn Center in the region. Additionally, San Bernardino Community Hospital is located approximately 5.4 miles northeast of the site at 1805 Medical Center Drive, San Bernardino. This hospital maintains 343 beds, and offers general acute care.</p> <p>There are adequate health care facilities within the Project area to serve future residents at the site, and it is not</p>

Community Facilities and Services	Code	Source or Documentation
		<p>expected that the Project would result in adverse effects to these facilities.</p> <p>[Sources: Arrowhead Regional Medical Center, website: www.arrowheadmedcenter.org/, accessed: October 8, 2014; Kaiser Permanente Fontana Medical Center, website: http://health.kaiserpermanente.org/wps/portal/facility/100127, accessed October 8, 2014; San Bernardino Community Hospital, website: http://www.chsb.org/index.htm, accessed October 8, 2014.]</p>
Social Services	2	<p>A total of 112 affordable housing units are proposed for low and very-low income households. The Project proposes to integrate supportive services with the proposed permanent affordable housing. The LifeSTEPS program would provide social services on-site. LifeSTEPS provides services that meet all state and federal social service requirements for affordable housing communities through the provision of individual and community-wide programs. The Community Building, containing 2,300 sf, would support various social programs offered to the community. The Community Building would host events and classes as well as provide services related to the following: English as a second language; computers; resume assistance; after school program; personal finance; nutrition; mediation, volunteer programs, and case management. The various programs would be available for children and adults, as appropriate.</p> <p>Additionally, a daycare/learning center would be located on-site to serve residents and neighbors between the hours of 8:00 am and 6:00 pm. A 2,500 sf daycare center (up to 3,000 sf) building with 4,000 sf of open space would maintain at least 75 sf of open space per student. It is anticipated that the facility would have capacity for 4 employees and 40-50 students.</p> <p>[Sources: LifeSTEPS Programs and Services, website: www.lifestepsusa.org/, accessed October 20, 2014.]</p>
Solid Waste	4	<p>Republic Services Colton Disposal Division provides waste disposal and recycling services to the Project area. All of the waste generated in this area of San Bernardino County is disposed of at the landfill located at 2059 Steel Road in Colton. The facility is permitted to process 1,950 tons of solid waste, recyclables, and green waste per day. Anticipated closure dates for the landfill have not been determined. The Project proposes residential uses with a community building and daycare center. Only minor demolition is required; therefore, construction waste would be minimal. The only demolition required would be to remove the foundation of the previously demolished residence. As such, the Applicant would be required to obtain a demolition permit. The Project</p>

Community Facilities and Services	Code	Source or Documentation
		<p>would be required to prepare a Construction and Demolition Solid Waste Management Plan, which would be reviewed by the County's Solid Waste Management Division. The Waste Management Plan requires that the Project estimate the amount of waste to be disposed and diverted during construction, and demonstrate how much refuse was actually diverted and disposed of in Compliance with the California Green Building Code (CALGreen). CALGreen requires that all newly constructed buildings develop a waste management plan and divert a minimum of 50 percent of construction related waste. The Project would also be required to implement a recycling program for the future residents of the site. Because of the landfills' anticipated closure dates, and the mitigation measures proposed, the Project would not adversely impact these facilities. Mitigation Measure USS-1 is required.</p> <p>USS-1: Prior to issuance of the Grading or Building Permit, the Project shall prepare and submit for review to the County's Solid Waste Management Division a Construction and Demolition Solid Waste Management Plan. The Plan shall:</p> <ol style="list-style-type: none"> 1. Include measures to ensure that a minimum of 50 percent of the construction waste is diverted; 2. Estimate the amount of tonnage to be disposed and diverted during construction; and 3. Provide evidence of what tonnage was actually diverted and disposed of. Disposal and/or diversion receipts or certifications shall be provided to the County, as part of the Plan. <p>[Sources: CALGreen Residential Mandatory Measures, 2013 CALGreen Code, January 1, 2014, website: www.hcd.ca.gov/codes/calgreen/2013%20CALGreen%20Residential%20Mandatory%20Measures_4-30-13.pdf, accessed October 8, 2014; Material Recovery Facilities and Transfer Stations, MG Disposal, website www.mgdisposal.net/index.aspx?site=mg&page_handler=inland_regional, accessed October 8, 2014; CALRecycle, Facility/Site Summary Details: Inland Regional MRF & TS, website www.calrecycle.ca.gov/SWFacilities/Directory/36-AA-0412/Detail/, accessed: October 8, 2014.]</p>
Waste Water	3	<p>The Project proposes residential uses and associated features that would generate wastewater, creating a demand for wastewater conveyance and treatment. The City of Colton owns, operates, and maintains a wastewater treatment system that also services the City of Grand Terrace and unincorporated County areas. A regional tertiary treatment plant also treats the effluent from the wastewater treatment plant and returns the water to the Santa Ana River. The treatment facility treats effluent in compliance with Regional</p>

Community Facilities and Services	Code	Source or Documentation
		<p>Water Quality Control Board regulations. The total population discharging to the facility is estimated at 665,867. Average daily flows at the facility are 5.6 million gallons per day (gpd). The Project site would establish a 400-foot extension to the north along Cypress Avenue from the main in West Valley Boulevard. The Project site would require an 8-inch PVC sewer main on-site, a 10-inch PVC sewer main along the northerly driveway, and a 10-inch PVC sewer main off-site on Cypress Avenue.</p> <p>Based on the per capita waste water generation factor within the Colton Hub City Center Specific Plan of 300 gallons per dwelling unit per day, the Project would generate approximately 33,600 gallons per day (assuming the development of 112 dwelling units on the site). This increase in waste water generation represents approximately 0.6 percent of the average daily flows treated by the treatment plant. The Project would be required to provide payment to offset any incremental increase in demand for waste water conveyance and treatment. Furthermore, the Project would be required to obtain “Will-Serve” documentation from the service provider, which would verify adequate service capability of the applicable facilities.</p> <p>[Sources: City of Colton, Water/Wastewater, Website: http://www.ci.colton.ca.us/index.aspx?nid=180, accessed: October 7, 2014; City of Colton, Sewer System Management Plan, website: www.ci.colton.ca.us/DocumentCenter/View/1666, accessed: October 7, 2014; 2010 San Bernardino Valley Regional Urban Water Management Plan, website: www.ci.san-bernardino.ca.us/civicax/filebank/blobdload.aspx?blobid=14232, accessed December 16, 2014.]</p>
Storm Water	4	<p>The Project site consists of approximately 6 acres of undeveloped land. Thus, the majority of the site is currently permeable, a condition that would be altered as part of Project implementation. After Project construction, approximately 73 percent of the site would be covered with impermeable surfaces, such as buildings, roadways (asphalt), sidewalks, etc. Therefore, the Project would alter the existing drainage pattern on the site through the establishment of additional impervious surfaces that would result in increased runoff amounts. However, the Project proposes an on-site storm water collection system that would ensure that Project-generated incremental flows are detained on-site during storm peak periods. Drainage would be collected in the northwest corner of the site and beneath the gated entrance area across from the exterior guest parking. Tributary storm water runoff from the Project site will not adversely affect persons or properties on-site and off-site. Upstream site runoff currently flows through the Project site to the curb and</p>

Community Facilities and Services	Code	Source or Documentation
		<p>gutter of Cypress Avenue, while on-site runoff shall be intercepted and treated by Treatment Control Low Impact Development (LID) best management practices (BMPs) installed within the site before joining the off-site flow and discharging to curb and gutter of Cypress Avenue, and to downstream public drainage facilities.</p> <p>Vegetated or grassy swales are proposed throughout the landscaping and planting areas of the Project site. The design of vegetated or grassy swales promotes the conveyance of stormwater at a slower, controlled rate and acts as a filter medium removing pollutants (especially bacteria and pathogens) and allowing minimal stormwater infiltration. The buildings' downspouts will be directed to outlet to the nearby or adjacent vegetated or grassy swales. The runoff on grassy swales will be intercepted by numerous grated drop inlets or area drains and then conveyed via interconnected storm drain pipes and outlet to the selected underground storage LID BMP for treatment control, infiltration and detention routing purposes.</p> <p>Therefore, the Project would not create or contribute runoff water that would exceed the capacity of existing or planned storm water drainage systems. The Project would be required to comply with the Development Code, and pay drainage fees to contribute to the costs of constructing planned drainage facilities.</p> <p>The Project has the potential to degrade water quality in the area through erosion and or siltation during construction. The Project is required to obtain coverage under the General Permit for Discharges of Storm Water Associated with Construction Activity. Therefore, the Applicant shall file the RPDs, which include an NOI and a SWPPP, among other documents. The SWPPP must include the BMPs the discharger would use to protect storm water runoff and the placement of those BMPs, among other requirements. The Project is also required to comply with Development Code Section 85.11.030, Soil Erosion Pollution Prevention Plan and Inspection Required.</p> <p>The Municipal Storm Water Permitting Program regulates storm water discharges from municipal separate storm sewer systems (MS4s). The County's incorporated cities and unincorporated areas discharge pollutants from their MS4s. The County's discharges are regulated under the County-wide waste discharge requirements contained in Order No. R8-2010-0036, and is applicable to the Project area. The Permit Order requires all new development projects covered by the Order to incorporate Low Impact Development (LID) Best Management Practices as much as possible.</p> <p>As discussed, the majority of the site would be covered with impervious surfaces. Because of the size of the Project, a</p>

Community Facilities and Services	Code	Source or Documentation
		<p>Water Quality Management Plan (WQMP) has been compiled prior to the issuance of permits. The WQMP includes a combination of site design/ LID BMPS (where feasible), source control, and/or treatment control BMPS, including regional treatment systems to address all of the pollutants and hydrologic conditions of concern. Additionally, the WQMP complies with all County regulatory requirements including the San Bernardino County Storm Water Program Technical Guidance Document for Water Quality Management Plans. Thus, the Project would not produce substantial amount of additional polluted storm water.</p> <p>Potential Project impacts associated with storm water volumes and quality would not be adverse through compliance with NPDES, County Development code, and Technical Guidance Document requirements.</p> <p>HYD-1: Prior to issuance of Grading or Building Permit, the Project shall obtain coverage under the General Permit for Discharges of Storm Water Associated with Construction Activity Construction General Permit Order 2009-0009-DWQ, which includes filing a Notice of Intent (NOI) and preparation of a Storm Water Pollution Prevention Plan (SWPPP), and shall provide evidence to the County of compliance with Development Code Section 85.11.030, which requires preparation of Soil Erosion Pollution Prevention Plan and inspection.</p> <p>[Sources: Preliminary Drainage Study for Las Terrazas, United Civil, Inc. 2014; CalEPA, Santa Ana Regional Water Quality Control Board, Laws and Regulations, website: http://www.waterboards.ca.gov/laws_regulations/, accessed October 7, 2014; County of San Bernardino 2007 Development Code, adopted March of 2007, as amended in August of 2014, website: www.sbcounty.gov/Uploads/lus/DevelopmentCode/DCWebsite.pdf#PAGE=97, accessed October 7, 2014; State of California Santa Ana Regional Water Quality Control Board Website, San Bernardino County Stormwater Program Technical Guidance Document for Water Quality Management Plans, website: www.waterboards.ca.gov/santaana/water_issues/programs/stormwater/docs/sbpermit/wqmp/TechnicalGuidanceDocumentWQMP7-29-11.pdf, accessed: October 7, 2014.]</p>
Water Supply	1	<p>The Project site is located within the Colton Public Utilities service area. The water main in the easement property belongs to Terrace Water Company; however, the City of Colton Public Utilities has agreed to provide water service to the site (see attachment I). The City of Colton 2010 Urban Water Management Plan (UWMP) was prepared to provide water supply planning for the area over a 20-year period year (through 2035) and identify/quantify water supplies for</p>

Community Facilities and Services	Code	Source or Documentation
		<p>existing and future demands. FWC's water supply sources include water produced from groundwater extracted from the San Bernardino Basin Area (Bunker Hill Basin portion), the Rialto-Colton Basin, and the Riverside Basin (Riverside North Basin portion). Project implementation would result in population growth, with a resultant increase in water demand. FWC includes the water demands for lower income households in its UWMP and has capacity to provide potable water to its service area into the foreseeable future. Additionally, the Project includes design features that would reduce the Project's water demands. The Project would comply with Title 24 requirements, as well as the California Green Building Code standards. Drought tolerant landscaping, drip irrigation, and low impact development would also be incorporated into the Project design. The Project's water demand would not substantially deplete groundwater supplies or interfere substantially with groundwater recharge.</p> <p>[Sources: City of Colton Website, Water Boundary Map, website: www.ci.colton.ca.us/DocumentCenter/View/909, accessed October 13, 2014; US EPA Water Management Division Website, Region IX – Sole Source Aquifer Map, website: www.epa.gov/region9/water/groundwater/ssa.html, accessed October 13, 2014; 2010 San Bernardino Valley Urban Water Management Plan, City of Colton, website: www.ci.san-bernardino.ca.us/civicax/filebank/blobdload.aspx?blobid=14232, accessed October 13, 2014.]</p>
Public Safety		
Police	1	<p><i>Police</i></p> <p>The Project site is located within the jurisdiction of the San Bernardino County Sheriff-Coroner Department. The Central Station, located at 655 East Third Street, San Bernardino, 7.2 miles away from the site, would provide police services to the site. Project implementation would result in increased demands for police services due to an increase in population in the vicinity. The Project would provide fencing and gates that would enhance security within the residential development. Security lighting would also be installed as part of the Project. According to the County of San Bernardino Sheriff's Department CAD Incident Summary Report (2016) there were 27 calls for service in the unincorporated area of Colton along Valley Boulevard, which were mostly related to traffic stops or nuisance. Thus, under existing conditions, it is not considered a high crime area. Several County Police Stations were contacted (via phone and email) throughout the week of January 22, 2016 in order to obtain current response time information and projected response time information with implementation of the Project. However, the Police Department did not identify any concerns regarding the</p>

Community Facilities and Services	Code	Source or Documentation
		<p>Project during FCS' consultation period. Thus, the Project is not expected to result in unacceptable service ratios or response times. The Police Department has sufficient capacity to serve the Project along with other existing and planned projects in the area. Construction of new police facilities or expansion of existing facilities would not be required.</p> <p>[Sources: San Bernardino County Sheriff-Coroner Department Website, Patrol Divisions, website: http://cms.sbcounty.gov/sheriff/PatrolStations/Central.aspx, accessed October 7, 2014.]</p>
Fire	1	<p><i>Fire</i></p> <p>The site would be served by the Valley Division (Division 1) of the San Bernardino County Fire Department (SBCFD), which currently serves the western half of the San Bernardino Valley. Because of the Valley Division's erratic distribution throughout multiple jurisdictions, the SBCFD maintains mutual aid agreements with local cities to ensure adequate fire protection services. The Valley Division consists of two battalions, North Valley and South Valley, with 250 fire suppression personnel amongst 15 fire stations. The closest fire station to the Project site is Station 23 (Grand Terrace), located at 22582 City Center Ct., Grand Terrace, approximately 4.3 miles south of the Project site. The Station is staffed daily with 1 Captain, 1 Engineer/Paramedic, 1 Limited Term Firefighter, and a Paid-Call Firefighter Program to support staffing.</p> <p>The Project site is not located within an area prone to wildland brush fires, as determined by the Fire Safety Overlay within the Hazard Overlay Map of the County's General Plan. Project implementation would produce a corresponding increase in demands for fire protection services. However, the Project contains adequate facilities on-site to allow for adequate access and use of emergency vehicles. Additionally, the Project would not result in unacceptable service ratios or response time changes from the current 6 minutes and 57 seconds response time. FCS contacted the Fire Department to confirm that response times would not be adversely impacted through implementation of the proposed Project. Dana Diantoni confirmed that the Fire Department would maintain current service ratios even with the addition of the Project. Construction of new fire protection or expansion of existing facilities would not be required.</p> <p>[Sources: County of San Bernardino 2007 Development Code, adopted March of 2007, as amended in August of 2014, website: www.sbcounty.gov/Uploads/lus/DevelopmentCode/DCWebsite.pdf#PAGE=97, accessed October 7, 2014; San Bernardino County Geologic Hazards Overlay Map, website: www.sbcounty.gov/Uploads/lus/GeoHazMaps/FH30C_201003</p>

Community Facilities and Services	Code	Source or Documentation
		09.pdf, accessed October 6, 2014; San Bernardino County Fire Department, website: www.sbcfire.org/fire_rescue/stations/default.htm , accessed October 8, 2014. Dana Diantoni, personal correspondence. January 27, 2016.]
Emergency Medical	1	<p><i>Emergency Medical</i></p> <p>The Project site is located within an established urban area and there are several health care facilities within the vicinity of the Project site. The Kaiser Permanente Fontana Medical Center is located 5.8 miles west of the Project site, at 9961 Sierra Avenue, Fontana. This Kaiser facility offers emergency, urgent care, and pharmacy services. Arrowhead Regional Medical Center is located approximately 0.8 miles west of the Project site, at 400 Pepper Avenue, Colton. This Medical Center is a premier health care facility with 456 beds. The Arrowhead Regional Medical Center operates a 24-Hour Emergency Department, a Level II Trauma Center, three Family Health Centers and the only Burn Center in the region. Additionally, San Bernardino Community Hospital is located approximately 5.4 miles northeast of the site at 1805 Medical Center Drive, San Bernardino. This hospital maintains 343 beds, and offers general acute care. Therefore, the Project would not result in the need for additional or altered medical service ratios.</p> <p>[Sources: Arrowhead Regional Medical Center, website: www.arrowheadmedcenter.org/, accessed October 8, 2014; Kaiser Permanente Fontana Medical Center, website: http://health.kaiserpermanente.org/wps/portal/facility/100127, accessed October 8, 2014; San Bernardino Community Hospital, website: www.chsb.org/index.htm, accessed October 8, 2014.]</p>
Open Space and Recreation		
Open Space	2	<p>Project implementation would result in population growth, with a resultant increase in demand for open spaces. The Project proposes usable common open spaces for active and passive recreational activities, including community gardens, tot lots, barbeque areas, a pool, a sports court/recreation area, and landscaped areas. The County would review the Project to verify compliance with the Development Code's purpose and intent relative to open spaces, thereby ensuring adequate common and private open spaces would be provided within the development.</p> <p>[Sources: County of San Bernardino 2007 Development Code, amended August 21, 2014.]</p>

Community Facilities and Services	Code	Source or Documentation
Recreation	2	<p>The City of Colton's Parks Division manages parks within the city limits. Local recreation facilities include Fleming Park, located approximately 1.0 mile east of the Project site, and Elizabeth Davis Park, located approximately 0.8 miles north of the Project site. Veterans Park is located approximately 1.4 miles southeast of the Project site. Additionally, the San Bernardino National Forest is located approximately 25 miles northeast of the Project site. Project implementation would result in population growth, with a resultant increase in demands for recreational facilities. The Project proposes active and passive recreational amenities, including a tot lots, gardens, a pool, a sports court/recreation area, and barbeque areas that would be accessible to all residents. The County would review the Project to verify compliance with the Development Code's purpose and intent relative to on-site amenities and open spaces, thereby ensuring that adequate recreational amenities would be provided within the development. Compliance with Code requirements would ensure that the Project would not result in unacceptable parkland to population ratios. Construction of off-site recreational facilities or expansion of existing facilities would not be required. Additionally, given the provision of on-site recreation facilities, Project implementation would not increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated.</p> <p>[Sources: City of Colton, Parks Division website, www.ci.colton.ca.us/index.aspx?NID=431, accessed November 5, 2014; United States Forest Service, Data, Maps, and Publications website: www.fs.fed.us/maps/, accessed November 5, 2014; and County of San Bernardino 2007 Development Code amended August 21, 2014.]</p>
Cultural Facilities	2	<p>Local existing library facilities include the Colton Public Library-Main Branch, located at 656 North 9th Street Colton, approximately 1.6 miles east of the Project site, the Luque Branch Library, located at 294 East O Street Colton, approximately 1.7 miles southeast of the Project site, the Advance to Literacy Center/ Homework Assistance Center located in the city's historic Carnegie Library at 380 North La Cadena Drive Colton, approximately 1.2 miles east of the Project site, the Bloomington Branch Library, located at 993 West Valley Blvd, approximately 2.7 miles west of the Project site, and the Rialto Library, located at 251 West 1st Street, approximately 4.0 miles northwest of the Project site. Project implementation would result in population growth, with a resultant increase in demands for cultural facilities. As a part of the Bloomington Affordable Housing Community Project, the Bloomington Library will be relocating to a new 6,500 sq. ft. facility sometime in the next two years. In contemplation of this move, the Bloomington Library will have an increase of approximately 4,500 sq. ft. from</p>

Community Facilities and Services	Code	Source or Documentation
		its present 2,000 sq. ft. facility. This increase in size would accommodate the resulting population increase from the Project and meet community needs. [Sources: San Bernardino County Library, Library Locations website: www.sbclib.org/LibraryLocations.aspx , accessed November 18, 2014; : Personal communication with Raughley, Steven, Library Services Manager, San Bernardino County Library, email on December 15, 2014.]
Transportation	1	<p>The Project is forecast to generate approximately 918 daily vehicle trips, which include approximately 93 AM peak hour trips and 106 PM peak hour trips. The effect of these trips on the surrounding roadway network was analyzed for both existing conditions, forecast year 2015 conditions, and forecast year 2035 conditions. The forecast year 2015 and forecast year 2035 analysis included traffic associated with ambient growth, in addition to a range of cumulative projects identified by County of San Bernardino staff. Based on applicable agency thresholds of significance, the addition of Project-generated trips at the surrounding roadway network was determined to result in no adverse traffic impacts under any of the analysis scenarios. The proposed Project would be located on a major thoroughfare (Valley Boulevard) and is served by OmniTrans bus stops located within 0.1-mile of the site. The project would also establish a bus stop shelter at the nearest bus stop on Valley Boulevard. Additionally, the Project would also include bicycle racks on-site to encourage alternative forms of transportation, and would include a sidewalk along the Valley Boulevard frontage. The Project would not conflict with adopted policies, plans, or programs related to public transit, bicycle, or pedestrian travel. Mitigation Measure TRA-1 is required.</p> <p>TRA-1:</p> <ol style="list-style-type: none"> 1) Install a "STOP" sign and stop bar at the Project driveway on Valley Boulevard. 2) Valley Boulevard shall be restriped along the Project frontage to provide a two-way-left-turn-lane. The existing eastbound left-turn lane at the intersection of Cypress Avenue/Valley Boulevard shall be restriped to provide 60 feet of storage with a 90 foot transition (refer to Figure 9-1).

Natural Features	Code	Source or Documentation
Water Resources	1	The City of Colton's Public Utilities water supply comes entirely from deep water wells. Colton's existing potable water system facilities consist of 15 wells, 5 main booster pumping plants, 9 water storage reservoirs, 2 pressure reducing facilities, and over 120 miles of water transmission

Natural Features	Code	Source or Documentation
		<p>and distribution pipelines. Project implementation would result in population growth, with a resultant increase in water demand. The City of Colton includes projected water demand for lower income households in its UWMP and has capacity to provide potable water to its service area for the foreseeable future. Additionally, the Project includes design features that would reduce the Project's water demands. The Project would comply with Title 24 requirements, as well as the California Green Building Code standards. Drought tolerant landscaping and low impact development would also be incorporated into the Project design. The Project's water demand would not substantially deplete groundwater supplies or interfere substantially with groundwater recharge. Additionally, the Project would not result in alteration of the course of a stream or river in a manner that could potentially result in substantial erosion or siltation on- or off-site, or result in downstream flooding. There are no sole source aquifers or other natural water features located on the Project site or in its vicinity.</p> <p>[Sources: City of Colton Water Boundary Map, website: www.ci.colton.ca.us/DocumentCenter/View/909, accessed October 13, 2014; US EPA Region IX – Sole Source Aquifer Map, website: www.epa.gov/region9/water/groundwater/ssa.html, accessed October 13, 2014; 2010 San Bernardino Valley Urban Water Management Plan, City of Colton, website: www.ci.sanbernardino.ca.us/civicax/filebank/blobdload.aspx?blobid=14232, accessed October 13, 2014.]</p>
Surface Water	4	<p>There are no surface water features located on the Project site or in its vicinity. The Project would be required to implement BMPs to minimize the potential to contribute to storm water pollution during both the construction and post construction phases. The Project would implement site-specific requirements as outlined in the Project's SWPPP and WQMP and/or as required by the County, in compliance with NPDES requirements. Mitigation Measure HYD-1 would be required to ensure compliance with standard requirements.</p> <p>HYD-1: Prior to issuance of Grading or Building Permit, the Project shall obtain coverage under the General Permit for Discharges of Storm Water Associated with Construction Activity Construction General Permit Order 2009-0009-DWQ, which includes filing a Notice of Intent (NOI) and preparation of a Storm Water Pollution Prevention Plan (SWPPP), and shall provide evidence to the County of compliance with Development Code Section 85.11.030, which requires preparation of Soil Erosion Pollution Prevention Plan and inspection.</p>

Natural Features	Code	Source or Documentation
		[Sources: County of San Bernardino 2007 Development Code, Amended December 27, 2012; Santa Ana Regional Water Quality Control Board (RWQCB), San Bernardino County Municipal NPDES Storm Water Permit, website: www.waterboards.ca.gov/rwqcb8/board_decisions/adoptedorders/orders/2010/10036SBCMS4Permit012910.pdf , accessed October 30, 2014; and Santa Ana RWQCB San Bernardino County Stormwater Program Technical Guidance Document for Water Quality Management Plans, website: http://www.waterboards.ca.gov/rwqcb8/water_issues/programs/stormwater/docs/sbpermit/wqmp/TechnicalGuidanceDocumentWQMP7-29-11.pdf , accessed October 30, 2014.]
Unique Natural Features and Agricultural Lands	1	<p>No unique natural features, rock outcroppings, or mapped agricultural lands are located on the Project site or in its vicinity. There are a few trees scattered mostly in the southeast portion of the Project site.</p> <p>[Sources: Burrowing Owl Habitat Assessment (Glenn Lukos Associates, 2013) provided as Attachment C; San Bernardino County Land Use Plan General Plan Open Space Element Valley and Mountain Areas Open Space Resource Overlay Map, website: http://cms.sbcounty.gov/Portals/5/Planning/ZoningOverlaymaps/OpenSpaceValleyMtn.pdf, accessed October 6, 2014; and California Department of Conservation, 2010, San Bernardino County Important Farmland Map, Sheet 2 of 2.]</p>
Vegetation and Wildlife	1	<p>Habitat Assessments for the Burrowing Owl (<i>Athene cunicularia</i>) and the Delhi Sands flower-loving fly (<i>Rhaphiomidas terminatus abdominalis</i>, “DSF”), were conducted to document baseline on-site conditions and identify sensitive habitats and/or species potentially occurring within the Project boundaries within and adjacent to the site. According to the County’s Biotic Resources Overlay Map – Valley/Mountain Area, the Project site is mapped as containing burrowing owl habitat. The burrowing owl is listed as endangered by the California Department of Fish and Wildlife (CDFW). No burrows or man-made structures capable of supporting burrowing owls were detected on-site; therefore, the Project site does not currently support suitable habitat. The Project site also does not support native vegetation communities. The site is characterized by “ruderal” vegetation typical of disturbed ground such as vacant lots. Burrowing owls are presumed absent from the site. Focused surveys and a pre-construction burrowing owl survey are not required because suitable habitats do not occur on the Project site.</p> <p>Typical DSFL habitat components such as California buckwheat, vinegar weed, and telegraph weed are entirely absent and as such, the Project site exhibits no species typically utilized by the DSFL. Finally, because the site is fully</p>

Natural Features	Code	Source or Documentation
		<p>surrounded by development, supports a predominance of nonnative weedy species, and supports no native habitat of any sort, the site exhibits no potential for supporting any other special-status species and development of the site exhibits no potential for adverse impacts on any sensitive biological resources.</p> <p>The County's Open Space Overlay Map depicts wildlife corridors, major open space policy areas, and Areas of Critical Environmental Concern. As shown, the Project site is not within a mapped Open Space (OS) Overlay District. Additionally, no wildlife movement corridor was identified on or adjacent to the site through the Habitat Assessment. The Biotic Resources Overlay Map depicts the County's biological resources and indicates the Project site is not within a mapped Biotic Resources (BR) Overlay District. Development of the site would have no significant effect on any endangered species or sensitive habitats, including riparian and wetlands.</p> <p>[Sources: Habitat Assessment for Burrowing Owl (Glenn Lukos Associates 2013) and Habitat Assessment for Delhi Sands flower-loving fly (Glenn Lukos Associates 2013) provided as Attachment C; San Bernardino County Land Use Plan General Plan Open Space Element Valley and Mountain Areas Open Space Resources Overlay Map, website: http://cms.sbcounty.gov/Portals/5/Planning/ZoningOverlaymaps/OpenSpaceValleyMtn.pdf, accessed October 2, 2014; San Bernardino County Valley/Mountain Region Biotic Resources Overlay Map, website: www.sbcounty.gov/Uploads/lus/BioMaps/vly_mtn_all_biotic_resources_map_final.pdf, accessed October 2, 2014; and U.S. Department of Fish and Wildlife Service Delhi Sands Flower-Loving Fly 5-Year Review: Summary and Evaluation, website: www.fws.gov/carlsbad/SpeciesStatusList/5YR/20080331_5YR_DSF.pdf, accessed October 2, 2014.]</p>
Other Factors	Code	Source or Documentation
Flood Insurance	1	<p>Flood Insurance is not required under the National Flood Insurance Program (NFIP) because the Project is not located in a Special Flood Hazard Area (SFHA).</p> <p>[Sources: Federal Emergency Management Agency, FEMA Flood Insurance Rate Map (FIRM) Community Panel Number 06071C8679H, Map Revised November 15, 2010, website: www.fema.gov/hazard/map/firm.shtm, accessed October 6, 2014; San Bernardino County Land Use Plan General Plan Hazard Overlay Map, website: www.sbcounty.gov/uploads/lus/hazmaps/fh29b_20100309.pdf, accessed October 6, 2014.]</p>
Note:		

Natural Features	Code	Source or Documentation
The Responsible Entity must additionally document compliance with 24 CFR §58.6 in the ERR, particularly with the Flood Insurance requirements of the Flood Disaster Protection Act and the Buyer Disclosure requirements of the HUD Airport Runway Clear Zone/Clear Zone regulation at 24 CFR 51 Subpart D.		

Summary of Findings and Conclusions

Based on the above information, the proposed Project as designed with mitigation incorporated would not result in a significant impact on the quality of the human environment.

ALTERNATIVES TO THE PROPOSED ACTION

Alternatives and Project Modifications Considered [24 CFR 58.40(e), Ref. 40 CFR 1508.9]

1. Fewer residential units at a lower density could be developed at this site. A reduced density Project could consist of detached single-family residential units. Because the northwest portion of the site is designated Single Residential (RS), detached residential uses would be permitted. The remainder of the site would require a zone change from CG (General Commercial) to RS. Lower density residential development would reduce traffic volumes, with resultant reductions in air pollutant and greenhouse gas emissions, and noise impacts, although these impacts would not be considered significant at the currently proposed density. Additionally, there would be potential to reduce demands for energy and potable water use, although this would be dependent upon the size and types of units. However, a reduced density project would contribute fewer units to the County's affordable housing stock, as compared to the proposed development. Furthermore, detached single-family units may not be as affordable to very low-income families as apartment dwellings, and would likely not provide any one-bedroom units, which would not extend housing to as many diverse family sizes as would occur under the proposed Project. Detached single-family units would also not be the most efficient use of the site footprint. The Project's purpose and need would not be achieved with this scenario.
2. The Project site could be developed with commercial uses, as permitted by the site's General Commercial (CG) designation. Assuming the maximum allowable floor area ratio of 0.5:1, approximately 522,720 sf of non-residential uses could be developed on the 6-acre Project site. Commercial development could increase traffic volumes, with resultant increases in air pollutants and greenhouse gas emissions, and noise impacts, which could be greater than those anticipated with the Project. The impacts caused by a commercial use would potentially be incompatible with the existing adjacent residential uses. Additionally, there would be potential to increase demands for energy and potable water. The degree of environmental impacts associated with commercial development of the Project site would be dependent upon the types and intensities of commercial uses proposed. However, a commercial project would not provide an intergeneration affordable housing project or contribute units to the County's affordable housing stock, as compared to the proposed development. Additionally, the community benefits resulting from Project implementation, including the proposed day care and other community services would not be provided. The Project's purpose and need would not be achieved with this scenario.
3. More units at a higher density could be developed at this site through the use of density bonuses for affordable housing or by maximizing the density available pursuant to Development Code Chapter 83.03, Affordable Housing Incentives – Density Bonus. The Project could be economically feasible at a higher density if sufficient public funds are available to provide adequate subsidy to maintain affordability. Because the site is designated General Commercial (CG), residential uses would only be permitted with the approval of a Planned Development Permit, pursuant to County of San Bernardino

Development Code requirements and standards (Chapters 84.18 and 85.10). Higher density residential development would increase traffic volumes, with resultant increases in air pollutant and greenhouse gas emissions, and noise impacts, which would be greater than the Project's impacts. Additionally, higher density residential uses would require increased building heights and footprints, with resultant decreases in on-site private/public open spaces and amenities available to residents. Higher density residential uses could be incompatible with the adjacent single family neighborhood to the north. Higher density development would also increase demands for potable water and energy. The degree of compatibility and urban impacts associated with a higher density residential development on the Project site would be dependent upon the development density, site plan, and architectural features. A higher density residential development would provide an intergeneration affordable housing project and contribute units to the County's affordable housing stock, as would the proposed development. The Project and County goals and objectives would be achieved with this scenario. However, because of the potential for increased impacts, it would not be environmentally superior to the proposed Project.

No Action Alternative [24 CFR 58.40(e)]

The Project site is currently a vacant field that consists of mostly unpaved, unvegetated, vacant land; limited vegetation consisting of shrubs and grasses is located at the parcel edges. The site does not possess any unique natural features that would give it value in its current state. Taking no action to develop the site would leave an under-utilized property in mid-block along a major highway, defeating the intent of the County's General Plan and the site's General Commercial (CS) and Single Family-Residential (RS) designation/zoning. No action would also result in the loss of potential affordable housing units for low income families at a site that is ideally located for such a use (i.e., close to parks, health care, social services, schools, libraries, public transit, commercial retail, and job centers). No action would reduce air quality impacts generated by site development, but the reduction would be de minimis. The benefits of developing the site as proposed far outweigh any potential reduction in potential environmental impacts that might result from a decision not to develop.

CEQA CHECKLIST

Evaluation Format

The following analysis is prepared in compliance with the California Environmental Quality Act (CEQA) pursuant to Public Resources Code Section 21000, et seq. and the CEQA Guidelines (California Code of Regulations Section 15000, et seq.). Specifically, the preparation of an Initial Study is guided by CEQA Guidelines Section 15063. The Project is evaluated based upon its effect on seventeen (17) major categories of environmental factors. Each factor is reviewed by responding to a series of questions regarding the Project's impact on each element of the overall factor. The CEQA Checklist provides a formatted analysis that provides a determination of the Project's effect on the factor and its elements. The Project's effect is categorized into one of the following four categories of possible determinations:

Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
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Substantiation is then provided to justify each determination. One of the four following conclusions is then provided as a summary of the analysis for each of the major environmental factors:

1. No Impact: No impacts are identified or anticipated and no mitigation measures are required.
2. Less Than Significant Impact: No significant adverse impacts are identified or anticipated and no mitigation measures are required.
3. Less than Significant Impact With Mitigation Incorporated: Possible significant adverse impacts have been identified or anticipated and the following mitigation measures are required as a condition of Project approval to reduce these impacts to a level below significant. The required mitigation measures are: (List of mitigation measures)
4. Potentially Significant Impact: Significant adverse impacts have been identified or anticipated. An Environmental Impact Report (EIR) is required to evaluate these impacts, which are (List of the impacts requiring analysis within the EIR).

At the end of the analysis, the required mitigation measures are restated and categorized as being either self-monitoring or requiring a Mitigation Monitoring and Reporting Program.

Environmental Factors Potentially Affected					
The environmental factors checked below would be potentially affected by this Project, involving at least one impact that is a “Potentially Significant Impact” or “Less Than Significant With Mitigation Incorporated” as indicated by the checklist on the following pages.					
<input type="checkbox"/>	Aesthetics	<input type="checkbox"/>	Agriculture and Forestry Resources	<input checked="" type="checkbox"/>	Air Quality
<input type="checkbox"/>	Biological Resources	<input checked="" type="checkbox"/>	Cultural Resources	<input checked="" type="checkbox"/>	Geology/Soils
<input type="checkbox"/>	Greenhouse Gas Emissions	<input checked="" type="checkbox"/>	Hazards/Hazardous Materials	<input checked="" type="checkbox"/>	Hydrology/Water Quality
<input type="checkbox"/>	Land Use/Planning	<input type="checkbox"/>	Mineral Resources	<input checked="" type="checkbox"/>	Noise
<input type="checkbox"/>	Population/Housing	<input type="checkbox"/>	Public Services	<input type="checkbox"/>	Recreation
<input checked="" type="checkbox"/>	Transportation/Traffic	<input checked="" type="checkbox"/>	Utilities/Services Systems	<input checked="" type="checkbox"/>	Mandatory Findings of Significance

Determination (To be completed by the Lead Agency)

On the basis of this initial evaluation, the following finding is made:

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

Signature: Prepared by Aron Liang, Senior Planner

Date

Signature: Prepared by David Prusch
Supervising Planner
County of San Bernardino Land Use Services Department

Date

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
I. Aesthetics <i>Would the Project:</i>				
a) Have a substantial adverse effect on a scenic vista?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic building within a state scenic highway?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially degrade the existing visual character or quality of the site and its surroundings?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SUBSTANTIATION (Check ☐ if Project is located within the view-shed of any Scenic Route listed in the General Plan):

According to the Valley and Mountain Areas Open Space Resource Overlay Map, the Project site is not within a mapped Open Space (OS) Overlay District. There are no major open space areas or County designated scenic routes located in its vicinity.

- I.a) No Impact.** Refer to the Environmental Design section of the Environmental Assessment Checklist above.
- I.b) No Impact.** Refer to the *Historic Preservation* section of the Statutory Checklist and *Unique Natural Features and Agricultural Lands* section of the Environmental Assessment Checklist above.
- I.c) Less Than Significant Impact.** Refer to the *Environmental Design* section of the Environmental Assessment Checklist above.
- I.d) Less Than Significant Impact.** Refer to the *Hazards and Nuisances including Site Safety, Conformance with Comprehensive Plans and Zoning, and Compatibility and Urban Impact* sections of the Environmental Assessment Checklist above.

Mitigation Measures:

No significant adverse impact is anticipated; therefore, no mitigation is required.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
II. Agriculture and Forestry Resources <i>In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the Project:</i>				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Result in the loss of forest land or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SUBSTANTIATION (Check ☐ if Project is located in the Important Farmlands Overlay):

The Project site is not within a mapped Additional Agriculture (AA) or Agricultural Preserve (AP) Overlay District, as depicted on the Valley and Mountain Areas Open Space Resource Overlay Map. According to the Land Use Zoning Districts Map, the Project site's land use designation/zoning district is Service Commercial (CS).

II.a-b) No impact. Refer to the *Farmland Protection Policy Act* section of the Statutory Checklist above.

II.c) No Impact. Refer to the *Vegetation and Wildlife* section of the Environmental Assessment Checklist above.

II.d-e) No impact. There is no forest land associated with the Project site. Also refer to the *Farmland Protection Policy Act* section of the Statutory Checklist above.

Mitigation Measures:

No significant adverse impact is anticipated; therefore, no mitigation is required.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
III. Air Quality <i>Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations.</i> <i>Would the Project:</i>				
a) Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions, which exceed quantitative thresholds for ozone precursors)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Create objectionable odors affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SUBSTANTIATION	(Discuss conformity with the South Coast Air Quality Management Plan, if applicable):
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The air quality assessment conducted for the Project is provided as Attachment D.

IIla) Less Than Significant Impact. The Project is located within the South Coast Air Basin (SCAB), which is governed by the SCAQMD. On December 7, 2012, the SCAQMD Governing Board approved the 2012 Air Quality Management Plan (2012 AQMP), which outlines its strategies for meeting the National Ambient Air Quality Standards (NAAQS) for fine particulate matter (PM_{2.5}) and ozone (O₃). According to the SCAQMD's 2012 AQMP, two main criteria must be addressed.

Criterion 1

With respect to the first criterion, SCAQMD methodologies require that an air quality analysis for a project include forecasts of Project emissions in relation to contributing to air quality violations and delay of attainment.

a) Would the Project result in an increase in the frequency or severity of existing air quality violations?

Since the consistency criteria identified under the first criterion pertains to pollutant concentrations, rather than to total regional emissions, an analysis of a project's pollutant emissions relative to localized pollutant concentrations is used as the basis for evaluating project consistency. As discussed in Section III.d below, localized concentrations of carbon monoxide (CO), nitrogen oxides (NO_x), and fugitive dust (PM₁₀ and PM_{2.5}) would be less than significant during Project operations. Therefore, the Project would not result in an increase in the frequency or severity of existing air quality violations. Because reactive organic gases (ROGs) are not a criteria pollutant, there is no ambient standard or localized threshold for ROGs. Due to the role ROG plays in ozone formation, it is classified as a precursor pollutant and only a regional emissions threshold has been established.

b) Would the Project cause or contribute to new air quality violations?

As discussed in Section III.b below, Project operations would result in emissions that would be below the SCAQMD construction and operational thresholds. Therefore, the Project would not have the potential to cause or affect a violation of the ambient air quality standards.

c) Would the Project delay timely attainment of air quality standards or the interim emissions reductions specified in the AQMP?

The Project would result in less than significant impacts with regard to localized concentrations during Project construction and operations. As such, the Project would not delay the timely attainment of air quality standards or 2012 AQMP emissions reductions.

Criterion 2

With respect to the second criterion for determining consistency with SCAQMD and Southern California Association of Government's (SCAG) air quality policies, it is important to recognize that air quality planning within the SCAB focuses on attainment of ambient air quality standards at the earliest feasible date. Projections for achieving air quality goals are based on assumptions regarding population, housing, and growth trends. Thus, the SCAQMD's second criterion for determining project consistency focuses on whether or not the Project exceeds the assumptions utilized in preparing the forecasts presented in the 2012 AQMP. Determining whether or not a Project exceeds the assumptions reflected in the 2012 AQMP involves the evaluation of the three criteria outlined below. The following discussion provides an analysis of each of these criteria.

a) Would the Project be consistent with the population, housing, and employment growth projections utilized in the preparation of the AQMP?

In the case of the 2012 AQMP, three sources of data form the basis for the projections of air pollutant emissions: the County's General Plan, SCAG's Growth Management Chapter of the Regional Comprehensive Plan (RCP), and SCAG's 2012-2035 Regional Transportation

Plan/Sustainable Communities Strategy (RTP/SCS). The proposed multi-family residential development is not permitted within the General Commercial or Single Residential zones. Therefore, the Project would require approval of a General Plan Amendment and Planned Development Permit, which would be approved contingent upon the Project satisfying each of the necessary findings. The proposed development, as conditioned, would be compatible with the existing and planned land use character of the surrounding area. Additionally, the Planned Development Permit would be issued contingent upon the Project satisfying the applicable development and design standards (Code Chapter 84.18) that address density and potential land use compatibility issues. The Project site could currently be developed with more intense uses under the existing General Plan and zoning designations; assuming the maximum allowable floor area ratio of 0.5:1, approximately 522,720 sf of non-residential uses could be developed on the Project site based on the current General Commercial designation. Therefore, the proposed Project represents a less intense use than was envisioned in the General Plan, RCP and AQMP. In addition, the proposed General Plan Amendment is intended to achieve a single land use designation that best represents the development and land use activities contemplated by the proposed Project. When a project itself entails amendments to the general plan designations or zoning, inconsistency with the existing designations or zoning is an element of the Project itself, which then necessitates a legislative policy decision of the agency and does not signify a potential environmental effect. Therefore, upon approval by the County, the Project will be considered consistent with the General Plan, and with the types, intensity, and patterns of land use envisioned for the site vicinity in the RCP. The population, housing, and employment forecasts, which are adopted by SCAG's Regional Council, are based on the local plans and policies applicable to the County. Additionally, as the SCAQMD has incorporated these same projections into the 2012 AQMP, it can be concluded that the Project would be consistent with the projections.

b) Would the Project implement all feasible air quality mitigation measures?

Compliance with all feasible emission reduction measures identified by the SCAQMD would be required as identified in Section III.b. As such, the Project would meet this 2012 AQMP consistency criterion.

c) Would the Project be consistent with the land use planning strategies set forth in the AQMP?

The Project would serve to implement various County and SCAG policies. The Project would not displace housing or persons, or divide an existing community. Additionally, the County's review would also verify the Project's compatibility with surrounding land uses and that its proposed use and design (i.e., visual character, scale, lighting, landscaping, etc.) do not depart significantly from the surrounding land uses and their design.

In conclusion, the determination of 2012 AQMP consistency is primarily concerned with a project's long-term influence on air quality in the SCAB. The Project would not result in a long term impact on the region's ability to meet State and Federal air quality standards. Also, the Project would be consistent with the goals and policies of the AQMP for control of

fugitive dust. As discussed above, the Project would also be consistent with SCAQMD and SCAG's goals and policies and is considered consistent with the 2012 AQMP.

IIIb) Less Than Significant With Mitigation Incorporated.

Short-Term Emissions

Construction of the Project site would generate short-term air quality impacts. Construction equipment would include tractors, dozers, graders, water trucks, excavators, cranes, forklifts, pavers, rollers, cement mixers, and loaders. Exhaust emission factors for typical diesel-powered heavy equipment are based on the California Emissions Estimator Model (CalEEMod) program defaults. Variables factored into estimating the total construction emissions include the level of activity, length of construction period, number of pieces and types of equipment in use, site characteristics, weather conditions, number of construction personnel, and the amount of materials to be transported on- or off-site. The analysis of daily construction emissions has been prepared utilizing the CalEEMod computer model. Refer to Attachment D, Air Quality and Greenhouse Gas Assessment, for the CalEEMod modeling outputs and results. Table 3, Estimated Construction Emissions, presents the anticipated daily short-term construction emissions.

Fugitive Dust Emissions

Construction activities are a source of fugitive dust emissions that may have a substantial, temporary impact on local air quality. In addition, fugitive dust may be a nuisance to those living and working in the Project area. Fugitive dust emissions are associated with land clearing, ground excavation, cut-and-fill, and truck travel on unpaved roadways (including demolition as well as construction activities). Fugitive dust emissions vary substantially from day to day, depending on the level of activity, specific operations, and weather conditions. Fugitive dust from grading, excavation and construction is expected to be short-term and would cease upon Project completion. Additionally, most of this material is inert silicates, rather than the complex organic particulates released from combustion sources, which are more harmful to health.

Dust (larger than 10 microns) generated by such activities usually becomes more of a local nuisance than a serious health problem. Of particular health concern is the amount of PM₁₀ (particulate matter smaller than 10 microns) generated as a part of fugitive dust emissions. PM₁₀ poses a serious health hazard alone or in combination with other pollutants. Fine Particulate Matter (PM_{2.5}) is mostly produced by mechanical processes. These include automobile tire wear, industrial processes such as cutting and grinding, and re-suspension of particles from the ground or road surfaces by wind and human activities such as construction or agriculture. PM_{2.5} is mostly derived from combustion sources, such as automobiles, trucks, and other vehicle exhaust, as well as from stationary sources. These particles are either directly emitted or are formed in the atmosphere from the combustion of gases such as NO_x and sulfur oxides (SO_x) combining with ammonia. PM_{2.5} components

from material in the earth's crust, such as dust, are also present, with the amount varying in different locations.

Mitigation Measure AQ-1 would implement dust control techniques (i.e., watering of active sites three times daily), limitations on construction hours, and adherence to SCAQMD Rule 403 (which requires watering of inactive and perimeter areas, track out requirements, etc.), to reduce PM₁₀ and PM_{2.5} concentrations. As depicted in Table 3, total PM₁₀ and PM_{2.5} emissions would not exceed the SCAQMD thresholds during construction. Therefore, impacts would be less than significant.

Table 3: Estimated Construction Emissions

Emission Source	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summer, lbs/day						
<i>Site Preparation/Utilities</i>						
Fugitive Dust	—	—	—	—	2.41	1.29
Offroad Diesel	3.83	40.42	26.67	0.03	2.33	2.14
Worker Travel	0.07	0.09	1.07	0.002	0.17	0.05
TOTAL	3.90	40.51	27.74	0.03	4.91	3.49
Regional Significance Criteria	75	100	550	150	150	55
Localized Significance Criteria	N/A	302	2,396	N/A	44	10
<i>Significant?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>
<i>Paving</i>						
Asphalt Offgassing	0.00	—	—	—	—	—
Offroad Diesel	2.32	25.18	14.98	0.02	1.41	1.30
Onroad Diesel	0.09	0.98	1.08	0.002	0.09	0.03
Worker Travel	0.07	0.09	1.07	0.002	0.17	0.05
TOTAL	2.48	26.25	17.13	0.02	1.67	1.38
Significance Criteria	75	100	550	150	150	55
Localized Significance Criteria	N/A	302	2,396	N/A	44	10
<i>Significant?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>
<i>Building Construction</i>						
Building Offroad Diesel	3.66	30.03	18.74	0.03	2.12	1.99
Building Vendor Trips	0.12	1.28	1.41	0.003	0.16	0.06
Building Worker Travel	0.38	0.47	5.87	0.01	0.97	0.04
TOTAL	4.16	31.78	26.02	0.04	3.25	2.09
Significance Criteria	75	100	550	150	150	55
Localized Significance Criteria	N/A	302	2,396	N/A	44	10
<i>Significant?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>
<i>Architectural Coatings Application</i>						
Architectural Coatings Offgassing	14.97	—	—	—	—	—

Emission Source	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Architectural Coatings	0.41	2.57	1.90	0.003	0.22	0.22
Offroad Diesel						
Architectural Coatings	0.07	0.09	1.15	0.002	0.18	0.05
Worker Travel						
TOTAL	15.45	2.66	3.05	0.005	0.40	0.27
Significance Criteria	75	100	550	150	150	55
Localized Significance Criteria	N/A	302	2,396	N/A	44	10
<i>Significant?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>
MAXIMUM SIMULTANEOUS CONSTRUCTION EMISSIONS	19.61	40.50	29.08	0.06	4.91	3.49
Significance Criteria	75	100	550	150	150	55
Localized Significance Criteria	N/A	302	2,396	N/A	44	10
<i>Significant?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>

Construction Equipment and Worker Vehicle Exhaust

Exhaust emissions from construction activities include emissions associated with the transport of machinery and supplies to and from the Project site, emissions produced on-site as the equipment is used, and emissions from trucks transporting materials to/from the site. As presented in Table 3, construction equipment and worker vehicle exhaust emissions would be below the established SCAQMD thresholds. Therefore, air quality impacts from equipment and vehicle exhaust emission would be less than significant.

ROG Emissions

In addition to gaseous and particulate emissions, the application of asphalt and surface coatings creates ROG emissions, which are O₃ precursors. In accordance with the methodology prescribed by the SCAQMD, the ROG emissions associated with paving and architectural coating have been quantified with the CalEEMod model. Based on the modeling, the proposed Project would not result in an exceedance of ROG emissions and therefore would be considered less than significant.

Asbestos

Asbestos is a term used for several types of naturally occurring fibrous minerals that are a human health hazard when airborne. The most common type of asbestos is chrysotile, but other types such as tremolite and actinolite are also found in California. Asbestos is classified as a known human carcinogen by state, federal, and international agencies and

was identified as a toxic air contaminant by the California Air Resources Board (CARB) in 1986.

Asbestos can be released from serpentinite and ultramafic rocks when the rock is broken or crushed. At the point of release, the asbestos fibers may become airborne, causing air quality and human health hazards. These rocks have been commonly used for unpaved gravel roads, landscaping, fill projects, and other improvement projects in some localities. Asbestos may be released to the atmosphere due to vehicular traffic on unpaved roads, during grading for development projects, and at quarry operations. All of these activities may have the effect of releasing potentially harmful asbestos into the air. Natural weathering and erosion processes can act on asbestos bearing rock and make it easier for asbestos fibers to become airborne if such rock is disturbed. According to the Department of Conservation Division of Mines and Geology, A General Location Guide for Ultramafic Rocks in California – Areas More Likely to Contain Naturally Occurring Asbestos Report (August 2000), serpentinite and ultramafic rocks are not known to occur within the Project area. Thus, there would be no impact in this regard.

Total Daily Construction Emissions

In accordance with the SCAQMD Guidelines, CalEEMod was utilized to model construction emissions for ROG, NO_x, CO, SO_x, PM₁₀, and PM_{2.5}. The CalEEMod model allows the user to input mitigation measures such as watering the construction area to limit fugitive dust. Mitigation measures that were input into the CalEEMod model allow for certain reduction credits and result in a decrease of pollutant emissions. Reduction credits are based upon studies developed by CARB, SCAQMD, and other air quality management districts throughout California, and were programmed within the CalEEMod model. As indicated in Table 3, impacts would be less than significant for all criteria pollutants during construction. Implementation of standard SCAQMD measures (required by Mitigation Measure AQ-1) would further reduce these emissions. Thus, construction related air emissions would be less than significant.

Long-Term Emissions

Note: The long-term operational air quality analysis within this section is based upon the development of 100 multi-family apartment units as part of the proposed Project. Since completion of the air quality analysis, the number of dwelling units was subsequently increased to 112 (as reflected within this environmental document). Thus, the operational air quality analysis assumes twelve apartment units short of what would be constructed by the Project. However, this change is insufficient to affect the conclusions or mitigation measure affected by this increase in dwelling units.

Mobile Source Emissions

Mobile sources are emissions from motor vehicles, including tailpipe and evaporative emissions. Depending upon the pollutant being discussed, the potential air quality impact may be of either regional or local concern. For example, ROG, NO_x, SO_x, PM₁₀, and PM_{2.5} are all pollutants of regional concern (NO_x and ROG react with sunlight to form O₃

[photochemical smog], and wind currents readily transport SO_x, PM₁₀, and PM_{2.5}). However, CO tends to be a localized pollutant, dispersing rapidly at the source.

According to the Traffic Impact Analysis, the Project would generate approximately 918 daily vehicle trips. Table 4, Estimated Operational Emissions, presents the anticipated mobile source emissions.

As shown in Table 4, unmitigated emissions generated by vehicle traffic associated with the Project would not exceed established SCAQMD thresholds. Impacts from mobile source air emissions would be less than significant.

Table 4: Estimated Operational Emissions

Emission Source	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summer, lbs/day						
Area Sources	2.88	0.11	9.37	0.00	0.05	0.05
Energy Use	0.05	0.42	0.18	0.003	0.03	0.03
Vehicular Emissions	3.51	9.41	39.24	0.09	6.21	1.75
TOTAL	6.44	9.94	48.79	0.09	6.29	1.83
Significance Criteria	55	55	550	150	150	55
TOTAL ON-SITE EMISSIONS	2.93	0.53	9.56	0.00	0.08	0.08
Localized Significance Criteria	N/A	302	2,396	N/A	11	3
Significant?	No	No	No	No	No	No
Winter, lbs/day						
Area Sources	2.88	0.11	9.37	0.00	0.05	0.05
Energy Use	0.05	0.42	0.18	0.003	0.03	0.03
Vehicular Emissions	3.64	9.90	38.75	0.09	6.21	1.75
TOTAL	6.57	10.43	48.31	0.09	6.29	1.83
Significance Criteria	55	55	550	150	150	55
TOTAL ON-SITE EMISSIONS	2.93	0.53	9.56	0.00	0.08	0.08
Localized Significance Criteria	N/A	302	2,396	N/A	11	3
Significant?	No	No	No	No	No	No

Area Source Emissions

Area source emissions would be generated due to the Project's demand for natural gas. The primary use of natural gas producing area source emissions by the Project would be for consumer products, architectural coating, and landscaping. As shown in Table 4, the

Project's area source emissions would not exceed SCAQMD thresholds for ROG, NO_x, CO, SO_x, PM₁₀, or PM_{2.5}.

Energy Source Emissions

Energy source emissions would be generated as a result of the Project's electricity and natural gas (non-hearth) usage. The primary use of electricity and natural gas by the Project would be for space heating and cooling, water heating, ventilation, lighting, appliances, and electronics. As shown in Table 5, the Project's energy source emissions would not exceed SCAQMD thresholds for ROG, NO_x, CO, SO_x, PM₁₀, or PM_{2.5}.

Federal Conformity Analysis

According to the U.S. Department of Housing and Urban Development (HUD) guidelines, the following threshold is used to determine if a project meets the General Conformity requirements of the Clean Air Act:

The Clean Air Act (42 U.S.C. 7401 et seq.) prohibits federal assistance to projects that are not in conformance with the SIP. New construction and conversion, which are located in "non-attainment" or "maintenance" areas as determined by the EPA may need to be modified or mitigation measures developed and implemented to conform to the SIP.

The first step to determine if a project conforms to the State Implementation Plan (SIP) is to identify whether the Project is located in a "non-attainment" or "maintenance" area. The Project site is located within the South Coast Air Basin (SCAB) which is classified as an extreme nonattainment area for the 8-hour NAAQS for ozone, and a nonattainment area for the NAAQS for PM_{2.5}. The SCAB is also designated as a maintenance area for the NAAQS for CO and PM₁₀. The Los Angeles County portion of the SCAB has recently been classified as a nonattainment area for the NAAQS for NO₂ and lead. The SCAB is also considered a nonattainment area for the CAAQS for ozone, PM_{2.5}, and PM₁₀. The area is considered unclassified or attainment for all other NAAQS and CAAQS for the other criteria pollutants. Because the Project is located within a nonattainment area, the next step is to determine if the Project is consistent with an Air Quality Management Plan that is designed to bring the SCAB into attainment for standards regulating these pollutants.

The 2012 Air Quality Management Plan (2012 AQMP) proposes policies and measures to achieve federal and state standards for improved air quality in the SCAB. The 2012 AQMP relies on a regional and multi-level partnership of governmental agencies at the federal, state, regional, and local level. These agencies (U.S. Environmental Protection Agency [EPA], CARB, local governments, SCAG, and the SCAQMD) are the primary agencies that implement the 2012 AQMP programs. The 2012 AQMP incorporates the latest scientific and technical information and planning assumptions, including the 2012 Regional Transportation Plan/Sustainable Communities Strategy, updated emission inventory methodologies for various source categories, and SCAG's latest growth forecasts. The 2012 AQMP addresses several state and federal planning requirements, incorporating new scientific information, primarily in the form of updated emissions inventories, ambient measurements, and new

meteorological air quality models. The 2012 AQMP highlights the reductions and the interagency planning necessary to identify additional strategies, especially in the area of mobile sources, to meet all federal criteria pollutant standards within the timeframes allowed under federal Clean Air Act. The primary task of the 2012 AQMP is to bring the Basin into attainment with federal health-based standards. Specifically, the 2012 AQMP demonstrates:

- Attainment of the 24-hour $PM_{2.5}$ standard of 35 micrograms per cubic meter ($\mu g/m^3$) by 2014.
- Measures and actions to fulfill 8-hour ozone SIP commitments approved by the EPA to achieve emission reductions from advanced technologies.
- Attainment of the 1-hour ozone standard by 2022.

Regarding PM_{10} , CARB approved the PM_{10} Redesignation Request and Maintenance Plan (PM_{10} Plan) at a public meeting on March 25, 2010. As noted in the PM_{10} Plan, an area can be redesignated as attainment if, among other requirements, the EPA determines that the NAAQS have been attained. The NAAQS allows for one exceedance of the 24-hour average PM_{10} standard per year averaged over a three consecutive calendar year period measured at each monitoring site within an area based on quality assured Federal Reference Method (FRM) air quality monitoring data. Per the criteria specified in the NAAQS, the SCAB has been in compliance with the 24-hour PM_{10} standard since 2006. It should be noted that the analysis and projections within the PM_{10} Plan are consistent with those in the 2012 AQMP.

As noted in Section III.a, the Project is consistent with the 2012 AQMP's assumptions, growth patterns, and requirements. Further, the Project would not exceed any of the SCAQMD's localized or regional thresholds of significance and would incorporate standard SCAQMD rules and regulations (i.e., Rule 403) to minimize particulate matter emissions. Accordingly, the Project would be consistent with the requirements and assumptions of the SIP, and impacts would be less than significant in this regard.

- III.c) Less Than Significant Impact.** The Project area is designated as a nonattainment area for the 8-hour NAAQS for ozone, and a nonattainment area for the NAAQS for $PM_{2.5}$. The SCAB is also designated as a maintenance area for the NAAQS for CO and PM_{10} . Germane to this non-attainment status, the Project-specific evaluation of emissions demonstrates that the Project would not exceed any applicable thresholds, which are designed to assist the region in attaining the applicable state and national ambient air quality standards. The Project would be required to comply with SCAQMD's Rule 403 (fugitive dust control) during construction, and with all other adopted AQMP emissions control measures and the Air Quality dust control plan required as a mitigation measure. Per SCAQMD rules and mandates, as well as the CEQA requirement that significant impacts be mitigated to the extent feasible, these same requirements would be similarly imposed on all projects Basin-wide, which would include all related projects. As such, the Project's cumulative impacts with respect to criteria pollutant emissions would be less than significant.

III.d) Less Than Significant Impact With Mitigation Incorporated. Sensitive receptors are defined as facilities or land uses that include members of the population that are particularly sensitive to the effects of air pollutants, such as children, the elderly, and people with illnesses. Examples of these sensitive receptors are schools (Preschool-12th Grade), hospitals, resident care facilities, or day-care centers, or other facilities that may house individuals with health conditions that would be adversely impacted by changes in air quality. Residential land uses may also be considered sensitive receptors. CARB has identified the following groups of individuals as the most likely to be affected by air pollution: the elderly over 65, children under 14, athletes, and persons with cardiovascular and chronic respiratory diseases such as asthma, emphysema, and bronchitis.

Toxic Air Contaminant Impacts

The residential use proposed for the Project would not be a source of toxic air contaminant (TAC) impacts. However, the Project is located north of the Interstate 10 Freeway, and north of a Union Pacific rail line and Colton Rail Yard to the southwest. South of the freeway is the CalPortland Quarry and cement facility. Both trucks traveling on the freeway and locomotives traveling on the Union Pacific rail line are a source of diesel particulate matter emissions, which is categorized as a toxic air contaminant and carcinogenic substance by the state of California. In addition, the CalPortland operation is a source of toxic air contaminants, including organic compounds and metals.

The rail line is used exclusively for freight. It was assumed that freight traffic would result in two daily trips on the line. Train locomotive diesel particulate matter emissions were calculated based on U.S. EPA's locomotive emission factors (U.S. EPA 2009). For the purpose of representing a scenario based on residential exposure, it was assumed, as a worst case, that residents at the Project could be exposed to rail emissions for a period of 30 years. To evaluate an average exposure, the 9-year exposure scenario for both children and adults was used. A summary of the ADT for the segment of Interstate 10 between Pepper Avenue and Mount Vernon Avenue in Colton were obtained from the Caltrans website (Caltrans 2013), and are shown in Table 5.

Table 5: SR-125 Traffic Projections—Average Daily Trips

Total Traffic, ADT	Total Truck Traffic, ADT	2-Axle Trucks, ADT	3-Axle Trucks, ADT	4+-Axle Trucks, ADT
194,000	19,400	4,753	1,746	12,895

Mobile source emission factors were modeled using the Emission Factors (EMFAC2014) Model (ARB 2014). The analysis utilized emissions for the South Coast Air Basin, for medium duty trucks to represent 2-axle trucks (MDV), medium-heavy trucks for 3-axle trucks (T6), and heavy-heavy trucks for 4-axle trucks (T7). Two exposure periods were evaluated per OEHHA guidance: 9 years, which represents the average duration at a single residence in the United States, and 30 years, which represents a lifetime residential exposure, assuming a

resident would remain at the same location for 30 years, 24 hours/day, 350 days/year. Table 6 depicts average emissions associated with traffic on the I-10 segment that were estimated by averaging over the 9-year period and 30-year period for which the HRA calculations were conducted.

Table 6: Emission Estimates–Interstate 10 Segment Traffic

Scenario	2-Axle Truck Diesel Particulate Emissions, lbs/year per source	3-Axle Truck Diesel Particulate Emissions, lbs/year per source	4+-Axle Truck Diesel Particulate Emissions, lbs/year per source	Total Diesel Particulate Emissions, lbs/year per source
30-year exposure	0.155	0.049	0.644	0.848

Cancer

Table 7 presents a summary of the excess cancer risks calculated for the Project based on the 30-year exposure scenario considering both the rail line emissions and emissions from the Interstate 10 freeway. The results of the health risk calculations indicate that the risks are driven by exposure to diesel particulate matter from the Interstate 10 freeway.

Table 7: Health Risk Assessment Results–Excess Cancer Risk

30-year Exposure Scenario
67.9 in one million

Impacts to sensitive receptors were evaluated based on the Project’s potential to emit toxic air contaminants that would expose sensitive receptors to substantial pollutant concentrations, and on the potential for toxic air contaminants from nearby sources to affect the Project. The Project is not a source of toxic emissions and impacts from the Project to nearby sensitive receptors are therefore less than significant.

Impacts associated with nearby sources on the Project are above the SCAQMD’s significance threshold of 10 in a million. However, it should be noted that this significance threshold is generally applied to impacts from projects that emit TACs on nearby sensitive receptors, rather than to projects that would experience a cumulative risk from background sources such as the I-10 freeway and rail operations. Mitigation Measure MM-AQ1 and MM-AQ2 will be implemented to reduce risks to residents in the development to below the SCAQMD’s threshold of 10 in a million. Additionally, it should be noted that the project is located significantly east of the rail operations at the Colton Rail Yard, and wind conditions are primarily from the southwest, thereby directing/carrying potential pollutants from the rail operations to (generally) northwest of the proposed project site. Refer to Attachment D for a diagram of the wind conditions. Generally, impacts from the railyard operations would diminish as time passes, due to increasingly stringent regulations on diesel powered

equipment. Lastly, the project is located more than (approximately) 6,000 feet from the key railyard areas, thereby substantially reducing any potential impacts.

Existing research indicates that Mitigation Measure AQ2 would be sufficient to reduce impacts to less than significant levels. The set-back of buildings from high traffic roadways remains the most certain approach for preventing the residual health risk from traffic pollution exposures for those living close to the roadways, because it distances them from the highest pollutant concentrations (ARB 2012). The daycare center is located nearest the freeway, but would not be habitable, in that no individuals (including children) would be actually living there. In regards to Mitigation Measure AQ1, for most residential applications near busy roadways, high efficiency (MERV 13 to 16, or higher) pleated particle filters would generally be considered the most effective approach to filtration because they can remove the very small particles emitted by motor vehicles without emitting ozone, formaldehyde, or other harmful byproducts. Based on a limited number of studies, such high efficiency filtration has been shown to reduce indoor PM2.5 and ultrafine particle levels by up to 90% relative to incoming outdoor levels when doors and windows are kept mostly closed. MM-AQ2 requires that buildings furthest south (most affected by PM2.5) utilize non operable windows (with exception of emergency release). Furthermore, AQ2 also includes requirements to ensure that filters are maintained and replaced on a regular basis, in accordance with manufacturer's recommendations. Thus, impacts are less than significant with the incorporation of mitigation.

Potential Health Risks at Outdoor Areas

A technical memorandum was prepared by Eilar and Associates dated January 27, 2016, that provided an evaluation of the health risks for outdoor recreational areas proposed for the Project. The risks were calculated using the same methodologies as contained in the October 8, 2015 Revised Air Quality and Greenhouse Gas Assessment. The technical memorandum provides two sets of cancer risk results: one based on the risk assumptions for residential exposures and a second for recreational exposures. The residential risks were based on an exposure duration of 24 hours per day, 350 days per year, and for 30 years. The recreational risks were based on an exposure duration of 4 hours per day for 250 days per year. Results indicate that impacts relating to health risks for outdoor recreational areas would result in levels below the SCAQMD's threshold of 10 in one million. Cancer risks at outdoor areas are estimated to be approximately 3.67 in one million to a maximum of 6.6 in one million (tot lot outside day care center). Thus, impacts are less than significant and no mitigation measures are required in this regard.

- III.e) Less than Significant Impact.** During construction, diesel equipment operating at the site may generate some nuisance odors; however, due to the distance of sensitive receptors to the Project site and the temporary nature of construction, odors associated with Project construction would not be significant.

Land uses associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting activities, refineries, landfills, dairies, and fiberglass molding operations. These land uses are not proposed for the Project. Nonetheless, Mitigation Measure AQ-3 is required to ensure impacts relating to odors are less than significant. Odor impacts would not be significant.

Mitigation Measures:

AQ-1 Dust Control Plan. Prior to Grading Permit or Building Permit issuance, the “developer” shall prepare, submit for review, and obtain approval from County Planning of both a Dust Control Plan (DCP) consistent with SCAQMD guidelines and a signed letter agreeing to include in any construction contracts/subcontracts a requirement that Project contractors adhere to the DCP requirements. The DCP shall include the following requirements:

- a) Exposed soil shall be kept continually moist to reduce fugitive dust during all grading and construction activities, through application of water sprayed a minimum of three times each day during dry weather. Watering, with complete coverage of disturbed areas, shall occur at least three times a day, preferably in the mid-morning, afternoon, and after work is done for the day.
- b) The contractor shall ensure that traffic speeds on unpaved roads and the Project site areas are reduced to 15 miles per hour or less to reduce PM₁₀ and PM_{2.5} fugitive dust haul road emissions.
- c) Any portion of the site to be graded shall be pre-watered to a depth of three feet prior to the onset of grading activities.
- d) The contractor shall ensure that during high wind conditions (i.e., wind speeds exceeding 25 mph), areas with disturbed soil shall be watered hourly and activities on unpaved surfaces shall cease until wind speeds no longer exceed 25 mph.
- e) Any area that would remain undeveloped for a period of more than 30 days shall be stabilized using either chemical stabilizers and/or a desert wildflower mix hydroseed on the affected portion of the site.
- f) The contractor shall ensure that storage piles that are to be left in place for more than three working days shall be sprayed with a non-toxic soil binder, covered with plastic or revegetated.
- g) The contractor shall ensure that imported fill and exported excess cut shall be adequately watered prior to transport, covered during transport, and watered prior to unloading.
- h) The contractor shall ensure that storm water control systems shall be installed to prevent off-site mud deposition.
- i) All trucks hauling dirt away from the site shall be covered.
- j) The contractor shall ensure that construction vehicle tires shall be washed, prior to leaving the Project site.

- k) The contractor shall ensure that rumble plates shall be installed at construction exits from dirt driveways.
- l) The contractor shall ensure that paved access driveways and streets shall be washed and swept daily when there are visible signs of dirt track-out.
- m) Street sweeping shall be conducted daily when visible soil accumulations occur along site access roadways to remove dirt dropped or tracked-out by construction vehicles. Site access driveways and adjacent streets shall be washed daily, if there are visible signs of any dirt track-out at the conclusion of any workday and after street sweeping.
- n) The contractor shall post the phone number of the SCAQMD for complaints regarding excessive fugitive dust generation.

AQ-2

HVAC Requirements. The buildings will be equipped with a central heating, ventilation, and air conditioning (HVAC) system that includes high efficiency filters for particulates (Minimum Efficiency Reporting Value [MERV] 16). Any windows within a 500' distance to I-10 and facing the freeway are required to be inoperable, except as required for emergency egress. The project shall include tree plantings between residential dwellings and the freeway. To ensure long-term maintenance and replacement of the MERV filters in the individual units, the following shall occur:

- a) Developer, sale, and/or rental representative shall provide notification to all affected tenants/residents of the potential health risk for affected units.
- b) For rental units, the owner/property manager shall maintain and replace MERV filters in accordance with the manufacture's recommendations. The property owner shall keep a maintenance log schedule with proof of the filter replacements. Such log shall be available for inspection by the County of San Bernardino Building and Safety Department. The property owner shall inform renters of increased risk of exposure to diesel particulates when windows are open.
- c) Outdoor active-use public recreational areas, community center, and child care center associated with development project shall be located as far north in the project site plan as possible to distance these areas from the effects on Interstate 10 and the rail line.

AQ-3

Odors Reporting. Prior to site disturbance and grading activities, the contractor shall provide a cell phone number, assigned to a superintendent on the job, to members of the public residing abutting the project site along the north and east property boundaries and to members of the public residing on the east side of Cypress Avenue, between Valley Boulevard and Jackson Street for reporting odors associated with the project during site disturbance and or grading/construction activities.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
IV. Biological Resources <i>Would the Project:</i>				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of wildlife nursery sites?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SUBSTANTIATION (Check if Project is located in the Biological Resources Overlay or contains habitat for any species listed in the California Natural Diversity Database ☐):

The Project site is not within an Open Space (OS) Overlay District, as depicted on the Valley and Mountain Areas Open Space Resource Overlay Map, or a Biotic Resources (BR) Overlay District, as depicted on the Biotic Resources Overlay Map. Habitat Assessment for Burrowing Owl (Glenn Lukos Associates 2013) and Habitat Assessment for Delhi Sands flower-loving fly (Glenn Lukos Associates 2013) is provided in Attachment C.

- IV.a-b) No impact.** Refer to the *Endangered Species Act* section of the Statutory Checklist above.
- IV.c) No Impact.** Refer to the *Wetlands Protection* section of the Statutory Checklist above.
- IV.d) No impact.** Refer to the *Endangered Species Act* section of the Statutory Checklist above.
- IV.e) No Impact.** There are no local policies or ordinances protecting biological resources that are applicable to the Project site.
- IV.f) No Impact.** The Project area is not located within an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan. There would be no take of critical habitat, thus, no land use conflict with existing management plans would occur.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
V. Cultural Resources <i>Would the Project:</i>				
a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Disturb any human remains, including those interred outside of formal cemeteries?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SUBSTANTIATION

(Check if the Project is located in the Cultural ☐ or Paleontologic ☐ Resources overlays or cite results of cultural resource review):

The Project site is not within a mapped Cultural Resources Preservation (CP) Overlay District or Paleontologic Resources (PR) Overlay District, as depicted on the Cultural Resources Sensitivity Overlay Map (San Bernardino County 2014). Project-specific Paleontological Assessment (Eilar Associates, Inc. 2013), a Historical Resources Review (San Bernardino County Museum 2012), and a Cultural Resources Assessment (Eilar Associates, Inc. 2013) are provided in Attachment B.

Management Summary

In accordance with Section 106 of the National Historic Preservation Act (NHPA), a Phase I Cultural Resources Assessment was prepared by Eilar Associates, Inc., and submitted on March 29, 2013. The purpose of this assessment is to identify the presence or absence of potentially significant cultural resources within the project area and, if impacted by the proposed development, propose recommendations for mitigation. Completion of this investigation fulfilled the requirements associated with the California Environmental Quality Act (CEQA) as well as Section 106. The Phase I Cultural Resources Assessment report follows the California Office of Historic Preservation (OHP) procedures for cultural resource surveys and standards of reporting. The 2013 Eilar Associates, Inc. report can be found in its entirety in Attachment B.

On February 1, 2012, Laura S. White, MA, RPA of Eilar Associates, Inc. conducted a records search at the Archaeological Information Center (AIC) located at San Bernardino County Museum. The records search included the project area and a 1-mile search radius beyond the proposed project boundaries. Additionally, the National Register of Historic Places (NRHP), California Historical Landmarks (CHL), California Points of Historical Interest (CPHI), and the Office of Historic

Preservation's Directory of Properties (DOP) were reviewed for the purpose of identifying any historic properties.

The results indicated that no prehistoric or historic resources are on file with the AIC as having been previously recorded within the project area. However, there were 12 resources recorded within the 1-mile search radius. These include two prehistoric resources, both small lithic scatters, and ten historic resources, most of which are linear segments of roadway, waterway, and electrical transmission lines. In addition, 20 cultural resource studies or surveys are on file with the AIC as having been conducted within the search radius. None of these reports address the candidate location, indicating that the project area has not been previously surveyed for cultural resources. Approximately 35% surrounding 1-mile search radius has been previously investigated.

Historic map and aerial photography research conducted by Eilar Associates, Inc. indicated that the project area was unoccupied and utilized for agricultural purposes (fields and orchards) until 1939 when a single family residence was constructed on the property. This structure was demolished in 2008 and no traces of its or its building foundations were encountered during the pedestrian survey. An additional residence was constructed in 1950, which is still present within the project area today. This structure, located at 291 N. Cypress Avenue, was evaluated for eligibility against the criteria for inclusion of the NRHP and the CRHR and was determined not to be eligible for either register. The resource was recorded on the appropriate Department of Parks and Recreation (DPR) forms and submitted to the California Historical Resource Information System (CHRIS). No additional structures or historic-age features, and no prehistoric resources of any kind, were observed during the course of the pedestrian surveys which occurred on February 3, 2012. A more recent survey, conducted on February 18, 2013, addressed the addition of newly acquired acreage and also yielded no observed resources.

On January 16, 2012, Eilar Associates, Inc. sent a letter to the Native American Heritage Commission (NAHC) in an effort to determine whether any sacred sites are listed on its Sacred Lands File for the project area. The response from NAHC, received on January 18, 2012, noted that a search of the Sacred Lands File (SLF) failed to indicate the presence of Native American cultural resources in the immediate project area. A list of eight Native American tribal members who may have additional knowledge of the project area was included with the results. These tribal members were sent letters by mail on February 23, 2012, asking for any additional information they might have concerning the project area. A response from the Soboba Band of Luiseno Indians was received on February 7, 2012, indicating that since the project area lies outside of their traditional use area, they defer to the San Manuel Band of Mission Indians for input. No additional responses were received prior to the date of submission of the Phase I Cultural Resources Assessment.

A paleontological literature review and field reconnaissance was conducted by Eilar Associates, Inc., in February of 2013 and concluded that no recorded fossil localities, whether published or unpublished, have been mapped within the project area. The surface sediments within this project area have no potential to yield paleontological resources and none were observed during the course of the pedestrian surveys. However, there is potential to encounter Pleistocene fossils in the older soils underlying the immediate topsoil of the project area. If construction-related excavations,

trenching, or other forms of ground disturbance exceed ten feet below the surface, these possibly sensitive sediments may be breached. If the planned construction of the site will not result in deep excavations beyond 10 feet, there is no need for additional paleontological mitigation measures. However, if proposed developments will require deeper excavations, a qualified paleontologist should be contracted to prepare a monitoring schedule and monitoring plan, as needed.

Sensitivity and Impact Analysis

V.a) Cause a substantial adverse change in the significance of a historical resource: Less than significant with mitigation incorporated.

Refer to the above management summary for details. Based on the analysis of the records search results, the pedestrian survey, and the historic building evaluation, the proposed project area has been determined to have a low to moderate sensitivity for unique or significant historic resources. As the structure on site was not considered to be eligible for the NRHR or the CRHR, its demolition prior to project development would not be considered a significant impact to historic resources. However, it is always possible that earthmoving activities may disturb previously unrecorded resources. Mitigations measures for inadvertent historic and prehistoric finds (CUL-1), detailed below, should be observed.

V.b) Cause a substantial adverse change in the significance of an archaeological resource: Less than significant with mitigation incorporated.

Refer to the above management summary for details. Based on the analysis of the records search results, the NAHC Sacred Lands File search, additional Native American tribal member outreach attempts, and the pedestrian survey, the proposed project area has been determined to have a low sensitivity for prehistoric resources. No additional work, nor monitoring for cultural resources during construction, was recommended within the Phase I Cultural Resources Assessment. However, it is always possible that earthmoving activities may disturb previously unrecorded resources. Mitigations measures for inadvertent historic and prehistoric finds (CUL-1), detailed below, should be observed.

Additionally, the County of San Bernardino has conducted appropriate tribal outreach pursuant to AB52, SB18. The County requested that the Native American Heritage Commission (NAHC) send a list of local tribal parties who should be consulted pursuant to SB18 and AB52. On January 6, 2016, certified USPS letters detailing the project and its location were sent to all listed Native American representatives. No responses have been received as of the date of this report. In accordance with AB52, the County of San Bernardino began consultations on December 16, 2015 by sending outreach letters to those tribes which have provided written notice of wanting to consult on the presence of Tribal Cultural Resources (TRC) within the County. On January 19, 2016, the County received an email from the Soboba Tribe deferring to the San Manuel Band of Mission Indians. Thus, the cultural study was sent to the San Manuel Band seeking consultation. The County followed up on January 29, 2016 and February 1, 2016 with a voice mail and email (respectively) seeking additional information. On February 2, 2016, the County received a response from San Manuel Band of Mission Indians stating that they had reviewed the cultural resources report and do not have any

concerns. The representative stated that they have no further comments except that if tribal cultural resources are identified during project construction, to contact their office for consultation.

V.c) Directly or indirectly destroy a unique paleontological resource: Less than significant with mitigation incorporated.

Refer to the above management summary for details. Based on the results of the paleontological literature review and field reconnaissance, the project area has been determined to have a low sensitivity to contain fossilized materials at depths shallower than 10 feet, but to have a moderate sensitivity to encounter fossilized materials at depths greater than 10 feet below surface. If the proposed improvements are expected to exceed 10 feet in depth, a qualified paleontologist should be retained prior to the start of grading. The paleontologist will prepare a Mitigation Monitoring Plan (MMP) or Paleontological Resources Impact Management Plan (PRIMP), as needed. Within this document, the paleontologist will detail a sufficient monitoring schedule, any additional necessary mitigation measures, sampling requirements, salvage procedures, and identify a suitable scientific repository for any recovered materials. If ground-disturbing activities are not intended to exceed 10 feet in depth, no additional actions are currently suggested. However, it may still be possible to encounter fossilized materials at shallower depths. Mitigations measures for inadvertent paleontological finds (CUL-2), detailed below, should be observed.

V.d) Disturb any human remains, including those interred outside of formal cemeteries: Less than significant with mitigation incorporated.

Refer to the above management summary for details. Based on the analysis of the records search results, the NAHC Sacred Lands File search, additional Native American tribal member outreach attempts, and the pedestrian survey, the proposed project area has been determined to have a low sensitivity for containing buried human remains. However, it is always possible that earthmoving activities may disturb previously unrecorded resources. Mitigations measures for inadvertent discovery of human remains (CUL-3), detailed below, should be observed.

Mitigation Measures:

CUL-1 In the event that buried cultural resources are discovered during construction, operations shall stop in the immediate vicinity of the find and a qualified archaeologist shall be consulted to determine whether the resource requires further study. The qualified archaeologist shall make recommendations to the Lead Agency on the measures that shall be implemented to protect the discovered resources, including but not limited to excavation of the finds and evaluation of the finds in accordance with Section 15064.5 of the CEQA Guidelines. Potentially significant cultural resources consist of but are not limited to stone, bone, fossils, wood, or shell artifacts or features, including hearths, structural remains, or historic dumpsites. Any previously undiscovered resources found during construction within the project area should be recorded on appropriate DPR forms and evaluated for significance in terms of CEQA criteria.

If the resources are determined to be unique historic resources as defined under Section 15064.5 of the CEQA Guidelines, mitigation measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds.

No further grading shall occur in the area of the discovery until the Lead Agency approves the measures to protect these resources. Any archaeological artifacts recovered as a result of mitigation shall be donated to a qualified scientific institution approved by the Lead Agency where they would be afforded long-term preservation to allow future scientific study.

CUL-2 If the subsurface excavations for this project are proposed to exceed depths of 10 feet below surface, a qualified County-approved paleontological monitor should be retained to observe such excavations, which may breach the older underlying sediments and have a moderate potential to produce fossilized materials. In this situation, a detailed Mitigation Monitoring Plan (MMP) or Paleontological Resource Impact Management Plan (PRIMP) should be prepared in order to set forth the observation, collection, and reporting duties of the paleontological monitor. Additional mitigation measures and procedures will be outlined in the MMP or PRIMP as needed.

CUL-3 If human remains are encountered, State Health and Safety Code Section 7050.5 states that work shall stop immediately and that no further disturbance shall occur in the vicinity until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. The County Coroner must be notified of the find immediately. If the remains are determined to be prehistoric, the Coroner will notify the Native American Heritage Commission (NAHC), which will determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 24 hours of notification by the NAHC. The MLD may recommend scientific removal and nondestructive analysis of human remains and items associated with Native American burials. Contact the County Coroner at 175 South Lena Road, San Bernardino, CA 92415-0037 or (909) 387-2543.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
VI. Geology and Soils <i>Would the Project:</i>				
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ii) Strong seismic ground shaking?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
iii) Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iv) Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the Project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SUBSTANTIATION (Check ☐ if Project is located in the Geologic Hazards Overlay District):

The Project site is not within a mapped Geological Hazard (GH) Overlay District, as depicted on the Geologic Hazard Overlay Map.

V.ia.i) No Impact. Refer to the *Hazards and Nuisances including Site Safety* section of the Environmental Assessment Checklist above.

- V.ia.ii) Less Than Significant Impact With Mitigation Incorporated.** Refer to the *Hazards and Nuisances including Site Safety* section of the Environmental Assessment Checklist above. Mitigation Measure GEO-1 is required.
- V.ia.iii) No Impact.** Refer to the *Soil Suitability* section of the Environmental Assessment Checklist above.
- V.ia.iv) No Impact.** Refer to the *Soil Suitability* section of the Environmental Assessment Checklist above.
- V.Ib) Less Than Significant With Mitigation Incorporated.** Refer to the *Erosion and Storm Water* sections of the Environmental Assessment Checklist above. Mitigation Measure HYD-1 is required.
- V.Ic) No Impact.** Refer to the *Slope* section of the Environmental Assessment Checklist above.
- V.Id) No Impact.** Refer to the *Soil Suitability* section of the Environmental Assessment Checklist above.
- V.Ie) Less Than Significant Impact.** Refer to the *Soil Suitability* and *Waste Water* sections of the Environmental Assessment Checklist above.

Mitigation Measures:

- HYD-1** Prior to issuance of Grading or Building Permit, the Project shall obtain coverage under the General Permit for Discharges of Storm Water Associated with Construction Activity Construction General Permit Order 2009-0009-DWQ, which includes filing a Notice of Intent (NOI) and preparation of a Storm Water Pollution Prevention Plan (SWPPP), and shall provide evidence to the County of compliance with Development Code Section 85.11.030, which requires preparation of Soil Erosion Pollution Prevention Plan and inspection.
- GEO-1** Once project grading plans are prepared and available, the project geotechnical consultant shall review the grading plans relative to their recommendations in the Updated Geotechnical Investigation dated September 5, 2015 prepared by Geocon West, Inc. The geotechnical consultant shall prepare a Grading Plan Review Report, which shall be submitted the County for review and approval prior to grading permit issuance.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
VII. Greenhouse Gas Emissions <i>Would the Project:</i>				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SUBSTANTIATION:

Air quality analysis associated with the greenhouse gas emissions analysis is provided as Attachment D.

V.IIa) Less Than Significant Impact. According to the ARB's Scoping Plan, AB 32's goal of reducing GHGs to 1990 levels by 2020 would amount to an approximate 28.35% reduction in emissions below "business as usual" levels, accounting for growth in the state of California. "Business as usual" is defined as the emissions that would have occurred in the absence of reductions mandated under AB 32. Based on the latest guidelines and baseline emission calculations, for energy efficiency, "business as usual" is considered to be the equivalent of being as energy efficient as Title 24 requires as of 2005. The potential for significant impacts to global climate change for the Project were therefore evaluated on the basis of the Project's consistency with the goals of AB 32 to reduce GHG emissions to 1990 levels by 2020, and to implement those programs that will be required under AB 32 that are applicable to the Project.

The County of San Bernardino has published its Greenhouse Gas Emissions Development Review Processes (DRP)². The DRP was developed to support the County's GHG emission reduction plan by identifying strategies for reducing GHG emissions from development projects within the County. The DRP identifies a uniform set of performance standards applicable to all development projects including those whose GHG emissions are less than a 3,000 MT CO₂e threshold that the DRP indicates is an appropriate greenhouse gas threshold. As noted in the DRP, with the application of the GHG performance standards, projects that are exempt from CEQA and small projects that do not exceed 3,000 MT CO₂e PER YEAR will be considered to be consistent with the Plan and determined to have a less than significant individual and cumulative impact for GHG emissions.

² County of San Bernardino 2015. Greenhouse Gas Emissions Development Review Processes.
<http://www.sbcounty.gov/Uploads/lus/GreenhouseGas/FinalGHG.pdf>.

The GHG-reducing performance standards were developed by the County to improve the energy efficiency, water conservation, vehicle trip reduction potential, and other GHG reducing impacts from all new development approved within the unincorporated portions of San Bernardino County. As such, the following Performance Standards establish the minimum level of compliance that a development must meet to assist in meeting the 2020 GHG reduction target identified in the County GHG Emissions Reduction Plan. These Performance Standards apply to all Projects, including those that are exempt under CEQA, and will be included as Conditions of Approval for development projects.

The Performance Standards used for residential projects in the county are provided below and are required to be included as part of the project's Conditions of Approval.

RESIDENTIAL PROJECTS

1. GHG – Operational Standards. The developer shall implement the following as greenhouse gas (GHG) mitigation during the operation of the approved project:
 - a) Waste Stream Reduction. The “developer” shall provide to all tenants and project employees County-approved informational materials about methods and need to reduce the solid waste stream and listing available recycling services.
 - b) Vehicle Trip Reduction. The “developer” shall provide to all tenants and homeowners County- approved informational materials about the need to reduce vehicle trips and the program elements this project is implementing. Such elements may include: participation in established ride-sharing programs, creating a new ride-share employee vanpool, and/or providing a web site or message board for coordinating rides.
 - c) Provide Educational Materials. The developer shall provide to all tenants and employees education materials and about reducing waste and available recycling services. The education materials shall be submitted to County Planning for review and approval.
 - d) Landscape Equipment. The developer shall require in the landscape maintenance contract and/or in onsite procedures that a minimum of 20% of the landscape maintenance equipment shall be electric-powered.
2. GHG – Construction Standards. The developer shall submit for review and obtain approval from County Planning of a signed letter agreeing to include as a condition of all construction contracts/subcontracts requirements to reduce impacts to GHG and submitting documentation of compliance. The developer/construction contractors shall do the following:
 - a) Implement both the approved Coating Restriction Plans.
 - b) Select construction equipment based on low-emissions factors and high-energy efficiency. All diesel/gasoline-powered construction equipment shall be replaced, where possible, with equivalent electric or CNG equipment.

- c) Grading plans shall include the following statements:
 - “All construction equipment engines shall be properly tuned and maintained in accordance with the manufacturers specifications prior to arriving on site and throughout construction duration.”
 - “All construction equipment (including electric generators) shall be shut off by work crews when not in use and shall not idle for more than 5 minutes.”
 - d) Schedule construction traffic ingress/egress to not interfere with peak-hour traffic and to minimize traffic obstructions. Queuing of trucks on and off site shall be firmly discouraged and not scheduled. A flagperson shall be retained to maintain efficient traffic flow and safety adjacent to existing roadways.
 - e) Recycle and reuse construction and demolition waste (e.g. soil, vegetation, concrete, lumber, metal, and cardboard) per County Solid Waste procedures.
 - f) The construction contractor shall support and encourage ridesharing and transit incentives for the construction crew and educate all construction workers about the required waste reduction and the availability of recycling services.
3. GHG – Design Standards. The developer shall submit for review and obtain approval from County Planning that the following measures have been incorporated into the design of the project. These are to reduce potential project impacts on greenhouse gases (GHGs): Proper installation of the approved design features and equipment shall be confirmed by County Building and Safety prior to final inspection of each structure.
- a) Meet Title 24 Energy Efficiency requirements implemented July 1, 2014 The Developer shall document that the design of the proposed structures meets the current Title 24 energy-efficiency requirements. County Planning shall coordinate this review with the County Building and Safety. Any combination of the following design features may be used to fulfill this requirement, provided that the total increase in efficiency meets or exceeds the cumulative goal (100%+ of Title 24) for the entire project (Title 24, Part 6 of the California Code of Regulations; Energy Efficiency Standards for Residential and Non Residential Buildings, as amended January 24, 2013; Cool Roof Coatings performance standards as amended January 24, 2013):
 - Incorporate dual paned or other energy efficient windows,
 - Incorporate energy efficient space heating and cooling equipment,
 - Incorporate energy efficient light fixtures, photocells, and motion detectors,
 - Incorporate energy efficient appliances,
 - energy efficient domestic hot water systems,
 - Incorporate solar panels into the electrical system,

- Incorporate cool roofs/light colored roofing,
 - Incorporate other measures that will increase energy efficiency.
 - Increase insulation to reduce heat transfer and thermal bridging.
 - Limit air leakage throughout the structure and within the heating and cooling distribution system to minimize energy consumption.
- b) Plumbing. All plumbing shall incorporate the following:
- All showerheads, lavatory faucets, and sink faucets shall comply with the California Energy Conservation flow rate standards.
 - Low flush toilets shall be installed where applicable as specified in California State Health and Safety Code Section 17921.3.
 - All hot water piping and storage tanks shall be insulated. Energy efficient boilers shall be used.
 - If possible, utilize grey water systems and dual plumbing for recycled water.
- c) Lighting. Lighting design for building interiors shall support the use of:
- Compact fluorescent light bulbs or equivalently efficient lighting.
 - Natural day lighting through site orientation and the use of reflected light.
 - Skylight/roof window systems.
 - Light colored building materials and finishes shall be used to reflect natural and artificial light with greater efficiency and less glare.
 - A multi-zone programmable dimming system shall be used to control lighting to maximize the energy efficiency of lighting requirements at various times of the day.
 - The developer shall ensure that a minimum of 2.5 percent of the project's electricity needs is provided by on-site solar panels.
- d) Building Design. Building design and construction shall incorporate the following elements:
- Orient building locations to best utilize natural cooling/heating with respect to the sun and prevailing winds/natural convection to take advantage of shade, day lighting and natural cooling opportunities.

- Utilize natural, low maintenance building materials that do not require finishes and regular maintenance.
 - Roofing materials shall have a solar reflectance index of 78 or greater.
 - All supply duct work shall be sealed and leak-tested. Oval or round ducts shall be used for at least 75 percent of the supply duct work, excluding risers.
 - Energy Star or equivalent equipment shall be installed.
 - A building automation system including outdoor temperature/humidity sensors will control public area heating, vent, and air conditioning units
- e) Landscaping. The developer shall submit for review and obtain approval from County Planning of landscape and irrigation plans that are designed to include drought tolerant and smog tolerant trees, shrubs, and groundcover to ensure the long-term viability and to conserve water and energy. The landscape plans shall include shade trees around main buildings, particularly along southern and western elevations, where practical.
- f) The developer shall submit irrigation plans that are designed, so that all common area irrigation areas shall be capable of being operated by a computerized irrigation system, which includes either an on-site weather station, ET gauge or ETbased controller capable of reading current weather data and making automatic adjustments to independent run times for each irrigation valve based on changes in temperature, solar radiation, relative humidity, rain and wind. In addition, the computerized irrigation system shall be equipped with flow sensing capabilities, thus automatically shutting down the irrigation system in the event of a mainline break or broken head. These features will assist in conserving water, eliminating the potential of slope failure due to mainline breaks and eliminating over-watering and flooding due to pipe and/or head breaks.
- g) Recycling. Exterior storage areas for recyclables and green waste shall be provided. Adequate recycling containers shall be located in public areas. Construction and operation waste shall be collected for reuse and recycling.
- h) Transportation Demand Management (TDM) Program. The project shall include adequate bicycle parking near building entrances to promote cyclist safety, security, and convenience. If available, mass transit facilities shall be provided (e.g. bus stop bench/shelter). The developer shall publish ride-sharing information for ride-sharing vehicles and provide a website or message board for coordinating rides. The Program shall ensure that appropriate bus route information is available to tenants and homeowners.

4. GHG – Installation/Implementation Standards. The developer shall submit for review and obtain approval from County Planning of evidence that all applicable GHG performance standards have been installed, implemented properly and that specified performance objectives are being met to the satisfaction of County Planning and County Building and Safety. These installations/ procedures include the following:
 - a) Design features and/or equipment that cumulatively increases the overall compliance of the project to exceed Title 24 minimum standards by five percent.
 - b) All interior building lighting shall support the use of fluorescent light bulbs or equivalent energy-efficient lighting.
 - c) Installation of both the identified mandatory and optional design features or equipment that have been constructed and incorporated into the facility/structure.

Based on the results of the CalEEMod Model, the Project would generate a total of 423 metric tons of CO₂e emissions during construction. The SCAQMD recommends amortizing construction emissions over a period of 30 years to estimate the contribution of construction emissions to operational emissions over the Project lifetime. Amortized over 30 years, the construction of the Project will generate 20 metric tons of CO₂e on an annualized basis.

Based on the results of the CalEEMod Model, the Project would generate a total of 1,393 metric tons of CO₂e emissions for operations. Adding the amortized construction emissions results in an estimate of 1,407 metric tons of CO₂e emissions for both construction and operation. This level is below the County of San Bernardino's greenhouse gas threshold of 3,000 metric tons of CO₂e emissions. The Project's GHG emissions would therefore be less than significant after compliance with the application of the County of San Bernardino Performance Standards identified above.

V.IIb) Less Than Significant Impact. Based on the Project's level of greenhouse emissions that are less than the 3,000 MTCO₂e thresholds, the Project is not anticipated to conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases. The ARB's Scoping Plan is described in Section V.IIa above. The Project is consistent with the Scoping Plan and potential impacts would be less than significant.

Mitigation Measures:

No significant adverse impact is anticipated; therefore, no mitigation is required.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
VIII. Hazards and Hazardous Materials <i>Would the Project:</i>				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) For a Project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project result in a safety hazard for people residing or working in the Project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) For a project within the vicinity of a private airstrip, would the Project result in a safety hazard for people residing or working in the Project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SUBSTANTIATION:

As shown on the Hazard Overlay Map, the Project site is not within a mapped Hazardous Waste (HW) Overlay District, Airport Safety (AR) Overlay District, or Fire Safety Overlay District. The following Hazardous Substances Assessments (see Attachment E) were conducted for the Project site: Phase I Environmental Site Assessment (Anderson Environmental 2013); Pre-Demolition Asbestos Assessment Report (Anderson Environmental 2013); Pre-demolition Lead-based Paint Inspection Report (Anderson Environmental 2013); Lead Compliance Work-Plan (Andersen Environmental 2013); Phase II Environmental Site Assessment (Rincon Consultants 2016); and Asbestos Abatement Work-Plan (Andersen Environmental 2013); Draft Removal Action Workplan (Rincon Consultants, Inc. 2016).

V.IIIa) Less Than Significant Impact. Exposure of the public or the environment to hazardous materials could occur through the following: improper handling or use of hazardous materials or hazardous wastes particularly by untrained personnel; transportation accident; environmentally unsound disposal methods; and/or fire, explosion, or other emergencies. The severity of potential effects varies with the activity conducted, the concentration and type of hazardous material or wastes present, and the proximity of sensitive receptors.

The Project is a multi-family development that would involve residential uses. Activities that would occur at the residential units (e.g., building and landscape maintenance) would involve the use of limited quantities of hazardous materials. Cleaning and degreasing solvents, fertilizers, pesticides, and other materials used in the regular maintenance of buildings and landscaping would be utilized by the proposed residential use. Thus, the Project would increase in the use of household cleaning products and other materials routinely used in building maintenance.

The proposed development would also involve daycare and community center uses (classrooms, an office, and social services). A limited amount of hazardous materials would be used and stored on-site for use in grounds and building maintenance. These materials would consist of liquid and spay paints, lubricants, sealants, glues, grease, fertilizers, pesticides, herbicides and miscellaneous chemical cleaning products and would all be stored in secured maintenance buildings or closets. The storage of all hazardous materials would be in accordance with applicable requirements and all appropriate employees will be trained to properly contain spills of hazardous materials and to clean up and dispose of hazardous materials. Proper storage and proper training of maintenance employees will reduce the potential for significant impacts to a less than significant level. Also, operation of these uses would not require the handling of hazardous or other materials that would result in the production of large amounts of hazardous waste. Therefore, Project implementation would create a less than significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials.

V.IIIb) Less Than Significant With Mitigation Incorporated. Refer to the *Toxic or Hazardous Substances* section of the Statutory Checklist, *Siting of HUD-Assisted Projects Near*

Hazardous Operations section of the Statutory Checklist, and *Hazards and Nuisances including Site Safety* section of the Environmental Assessment Checklist above.

V.IIIC) Less Than Significant Impact. There are no existing schools within 0.25 mile of the Project site. The Project does not propose new or altered, formal educational facilities, but does include a Daycare Center serving on-site and off-site childcare daycare needs. A limited amount of hazardous materials would be used and stored on-site for use in grounds and building maintenance. These materials would consist of liquid and spray paints, lubricants, sealants, glues, grease, fertilizers, pesticides, herbicides and miscellaneous chemical cleaning products and would all be stored in secured maintenance buildings or closets. The storage of all hazardous materials would be in accordance with applicable requirements and all appropriate employees will be trained to properly contain spills of hazardous materials and to clean up and dispose of hazardous materials. Proper storage and proper training of maintenance employees will reduce the potential for significant impacts to a less than significant level.

V.IIID) No Impact. Refer to the *Toxic or Hazardous Substances* section of the Statutory Checklist, *Siting of HUD-Assisted Projects Near Hazardous Operations* section of the Statutory Checklist, and *Hazards and Nuisances including Site Safety* section of the Environmental Assessment Checklist above.

V.IIIE-f) No Impact. Refer to the Airport Clear Zones and Accident Potential Zones section of the Statutory checklist above.

V.IIIG) Less than Significant Impact. The emergency only access to/from the Project site that will be provided via one gated driveway along Cypress Avenue, located directly opposite H Street, would not be interrupted during the construction phase, since all improvements would occur entirely within the property limits. The San Bernardino County Fire Department would review the proposed Site Plan to verify compliance with minimum standards for emergency access. Therefore, Project implementation would not impair or physically interfere with an adopted emergency response plan or emergency evacuation plan.

V.IIIH) Less than Significant Impact. Refer to the *Hazards and Nuisances including Site Safety* and *Public Safety–Fire* sections of the Environmental Assessment above.

Mitigation Measures:

HAZ-1 Prior to the issuance of a grading permit, the Project Applicant shall provide documentation to the County of San Bernardino indicating DTSC approval of a plan containing all corrective measures required for the Project to remove contaminated soil.

Prior to the issuance of an occupancy permit, the Applicant shall implement all feasible corrective measures and establish any ongoing measures required (i.e. monitoring) to demonstrate that on-site soils are within residential California Human Health Screening Levels for constituents of concern.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
IX. Hydrology and Water Quality <i>Would the Project:</i>				
a) Violate any water quality standards or waste discharge requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Substantially alter the existing drainage pattern of area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) Otherwise substantially degrade water quality?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
j) Inundation by seiche, tsunami, or mudflow?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SUBSTANTIATION (Check ☐ if Project is located in the Flood Hazard Overlay District):

- IX.a) Less Than Significant impact.** Refer to the *Erosion* and *Storm Water* sections of the Environmental Assessment Checklist above.
- IX.b) Less Than Significant Impact.** Refer to the *Sole Source Aquifers* section of the Statutory Checklist and *Water Supply* section of the Environmental Assessment Checklist above.
- IX.c) Less Than Significant With Mitigation Incorporated.** Refer to the *Erosion* and *Storm Water* sections of the Environmental Assessment Checklist above.
- IX.d) Less Than Significant Impact.** Refer to the *Storm Water* section of the Environmental Assessment Checklist above.
- IX.e) Less Than Significant Impact.** Refer to the *Storm Water* section of the Environmental Assessment Checklist above.
- IX.f) Less Than Significant With Mitigation Incorporated.** Refer to the *Erosion* and *Storm Water* sections of the Environmental Assessment Checklist above.
- IX.g-h) No Impact.** The Project site is not located within a floodplain; refer to the *Floodplain Management* section of the Statutory Checklist and *Hazards and Nuisances including Site Safety* section of the Environmental Assessment Checklist above.
- IX.i) No Impact.** Refer to the *Floodplain Management* section of the Statutory Checklist above.
- IX.j) No Impact.** A seiche is an oscillation of a body of water in an enclosed or semi-enclosed basin, such as a reservoir, harbor, lake, or storage tank. A tsunami is a great sea wave, commonly referred to as a tidal wave, produced by a significant undersea disturbance such as tectonic displacement of a sea floor associated with large, shallow earthquakes. Mudflows result from the downslope movement of soil and/or rock under the influence of gravity.

The Project site is located over 40 miles from the Pacific Ocean and is a sufficient distance so as not to be subject to tsunami impacts. The Project site is not in the vicinity of a reservoir, harbor, lake, or storage tank capable of creating a seiche. In addition, there are no sources of potential mudflow capable of inundating the Project site due to the developed nature of the area and flat topography. Therefore, no impacts would occur in this regard.

Mitigation Measures:

- HYD-1** Prior to issuance of Grading or Building Permit, the Project shall obtain coverage under the General Permit for Discharges of Storm Water Associated with Construction Activity Construction General Permit Order 2009-0009-DWQ, which includes filing a Notice of Intent (NOI) and preparation of a Storm Water Pollution Prevention Plan (SWPPP), and shall provide evidence to the County of compliance with Development Code Section 85.11.030, which requires preparation of Soil Erosion Pollution Prevention Plan and inspection.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
X. Land Use and Planning <i>Would the Project:</i>				
a) Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the Project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Conflict with any applicable habitat conservation plan or natural communities conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SUBSTANTIATION:

X.a) Less Than Significant Impact. Refer to the *Compatibility and Urban Impact* section of the Environmental Assessment Checklist above.

X.b) Less Than Significant Impact. Refer to the *Conformance with Comprehensive Plans and Zoning* and *Compatibility and Urban Impact* sections of the Environmental Assessment Checklist above.

X.c) No Impact. Refer to Response IV.f on *Biological Resources* above.

Mitigation Measures:

No significant adverse impact is anticipated; therefore, no mitigation is required.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
XI. Mineral Resources <i>Would the Project:</i>				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SUBSTANTIATION: (Check ☐ if Project is located within the Mineral Resource Zone Overlay):

As shown on the Land Use Plan, the Project site is not within a mapped Mineral Resource (MR) Overlay District.

XI.a) No Impact. The Project would not result in the loss of availability of a known mineral resource that will be of value to the region and the residents of the state, because there are no identified important mineral resources on the Project site. Additionally, mineral extraction would be incompatible with existing and planned land uses in the area.

XI.b) No Impact. The Project would not result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan, because there are no identified locally important mineral resources on the Project site.

Mitigation Measures:

No significant adverse impact is anticipated; therefore, no mitigation is required.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
XII. Noise <i>Would the Project result in:</i>				
a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) A substantial permanent increase in ambient noise levels in the Project vicinity above levels existing without the Project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) A substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) For a Project within the vicinity of a private airstrip, would the Project expose people residing or working in the Project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SUBSTANTIATION

(Check ☐ if the Project is located in the Noise Hazard Overlay District or is subject to severe noise levels according to the General Plan Noise Element):

The Project site is not located in a Noise Hazard (NH) Overlay District, as depicted on the Hazard Overlay Maps, and is not subject to severe noise levels according to the County General Plan Noise Element. The noise data and assumptions associated with this analysis are provided as Attachment F.

Sound is mechanical energy transmitted by pressure waves in a compressible medium such as air, and is characterized by both its amplitude and frequency (or pitch). The human ear does not hear all frequencies equally. In particular, the ear de-emphasizes low and very high frequencies. To better approximate the sensitivity of human hearing, the A-weighted decibel scale (dBA) has been developed. On this scale, the human range of hearing extends from approximately three dBA to around 140 dBA.

There are a number of metrics used to characterize community noise exposure, which fluctuate constantly over time. One such metric, the equivalent sound level (L_{eq}), represents a constant sound

that, over the specified period, has the same sound energy as the time varying sound. Noise exposure over a longer period of time is often evaluated based on the Day-Night Sound Level (L_{dn}). This is a measure of 24-hour noise levels that incorporates a 10-dBA penalty for sounds occurring between 10:00 PM and 7:00 AM. The penalty is intended to reflect the increased human sensitivity to noises occurring during nighttime hours, particularly at times when people are sleeping and there are lower ambient noise conditions. Typical L_{dn} noise levels for light and medium density residential areas range from 55 dBA to 65 dBA.

REGULATORY FRAMEWORK

Federal

U.S. Department of Housing and Urban Development

The U.S. Department of Housing and Urban Development (HUD) has identified exterior noise standards for new housing construction; refer to Table 8, *HUD Site Acceptability Standards*. As indicated in Table 8, sites with sound levels of 65 CNEL and below are “acceptable” and are allowable. Construction of new noise sensitive uses is prohibited generally for projects with “unacceptable” noise exposures and is discouraged for projects with “normally unacceptable” noise exposure.

Table 8: HUD Site Acceptability Standards

Approval	L_{dn} or CNEL (dBA) ²	Requirements
Acceptable ¹	≤ 65 ³	None.
Normally Unacceptable	65 – 75	Special Approvals ⁴ Environmental Review ⁵ Attenuation ⁶
Unacceptable	> 75	Special Approvals ⁴ Environmental Review ⁵ Attenuation ⁶

Notes:

¹ The noise environment inside a building is considered acceptable if: (i) The noise environment external to the building complies with these standards, and (ii) the building is constructed in a manner common to the area or, if of uncommon construction, has at least the equivalent noise attenuation characteristics.

² Where the building location is determined, the standards shall apply at a location 6.5 feet from the building housing noise sensitive activities in the direction of the predominant noise source. Where the building location is undetermined, the standards shall apply 6.5 feet from the building setback line nearest to the predominant noise source. However, where quiet outdoor space is desired at a site, distances should be measured from important noise sources to the outdoor area in question. (It is assumed that quiet outdoor space includes single-family private yards and multi-family patios or balconies that are greater than six feet in depth).

³ Acceptable threshold may be shifted to 70 dBA in special circumstances pursuant to Section 51.105 (a).

⁴ See Section 51.104(b) (Special Requirements) for requirements.

⁵ See Section 51.104(b) (Special Requirements) for requirements.

⁶ Five (5.0) dBA additional attenuation required for sites above 65 dB but not exceeding 70 dBA, and 10 dBA additional attenuation required for sites above 70 dBA but not exceeding 75 dB; see Section 51.104(a).

⁷ Attenuation measures can be submitted to the Assistant Secretary for CPD for approval on a case-by-case basis.

Source: Title 24 (HUD), Part 51 (Environmental Criteria and Standards), Subpart B (Noise Abatement and Control), Section 51.103 (Criteria and Standards).

County of San Bernardino

The County has adopted a noise ordinance with various noise standards based on the persistence of source-generated noise levels above a baseline noise standard. The County standards are summarized in Table 9, *San Bernardino County Noise Standards for Stationary Sources*, and Table 10, *San Bernardino County Noise Standards for Adjacent Mobile Noise Sources*.

Table 9: San Bernardino County Noise Standards for Stationary Sources

Affected Land Uses (Receiving Noise)	7:00 AM–10:00 PM L_{eq}	10:00 PM–7:00 AM L_{eq}
Residential	55 dB(A)	45 dB(A)
Professional Services	55 dB(A)	55 dB(A)
Other Commercial	60 dB(A)	60 dB(A)
Industrial	70 dB(A)	70 dB(A)

L_{eq} = (Equivalent Energy Level). The sound level corresponding to a steady-state sound level containing the same total energy as a time varying signal over a given sample period, typically 1, 8 or 24 hours.
 dB(A) = (A-weighted Sound Pressure Level). The sound pressure level, in decibels, as measured on a sound level meter using the A-weighting filter network. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound, placing greater emphasis on those frequencies within the sensitivity range of the human ear.
 L_{dn} = (Day-Night Noise Level). The average equivalent A-weighted sound level during a 24-hour day obtained by adding 10 decibels to the hourly noise levels measured during the night (from 10 pm to 7 am). In this way L_{dn} takes into account the lower tolerance of people for noise during nighttime periods.
 Source: County of San Bernardino, Code of Ordinances Section 83.01.080 Noise, 2007.

Table 10: San Bernardino County Noise Standards for Adjacent Mobile Noise Sources

Land Uses		L_{dn} (or CNEL) dB	
Categories	Uses	Interior ¹	Exterior ²
Residential	Single-family, Duplex Units	45	65 ³
	Mobile Home	45	65 ³
Commercial	Hotel, Motel, Transient Lodging	45	65 ³
	Commercial Retail, Bank and Restaurants	50	NA
	Office building, research and development, professional offices	45	65
	Amphitheater, Hall, Auditorium, Theater	45	NA
Institutional	Hospital, nursing home, school classroom, religious institution, library	45	65
Open Space	Park	NA	65

Land Uses		L _{dn} (or CNEL) dB	
Categories	Uses	Interior ¹	Exterior ²
<p>Notes:</p> <p>¹ Interior living environment excluding bathrooms, kitchens, toilets, closets, and corridors.</p> <p>² Outdoor environment limited to private yards of single-family dwellings, multi-family private patios or balconies, mobile home parks, hospital/office building patios, park picnic areas, school playgrounds and hotel and motel recreation areas.</p> <p>³ An exterior noise level of up to 65 dB L_{dn} (or CNEL) will be allowed, provided exterior noise levels have been substantially mitigated through a reasonable application of the best available noise reduction technology, and interior noise exposures does not exceed 45 dB L_{dn} (or CNEL) with windows and doors closed. Requiring that windows and doors remain closed will necessitate the use of air conditioning or mechanical ventilation.</p> <p>CNEL = (Community Noise Equivalent Level). The average equivalent A-weighted sound level during a 24-hour day, obtained after addition of approximately five decibels to sound levels in the evening from 7 p.m. to 10 a.m. and 10 decibels to sound levels in the night before 7 a.m. and after 10 p.m.</p> <p>Source: County of San Bernardino, Code of Ordinances Section 83.01.080 Noise 2007.</p>			

The limits outlined above are adjusted as follows for short-term noise events:

- The noise standard plus 5 dBA for a cumulative period of more than 15 minutes in any hour.
- The noise standard plus 10 dBA for a cumulative period of more than 5 minutes in any hour.
- The noise standard plus 15 dBA for a cumulative period of more than one minute in any hour.
- The noise standard plus 20 dBA for any period of time.

If the noise consists entirely of impact noise or simple tone noise, the allowable level would be reduced by 5 dBA.

The most stringent noise standards are associated with residential land uses. As shown in Table 10, the San Bernardino County General Plan limits exterior noise levels to 60 dBA CNEL and interior noise levels to 45 dBA CNEL. The General Plan allows exterior noise levels up to 65 dBA CNEL at residences where noise levels have been substantially mitigated using reasonable application of the best available noise reduction technology and interior noise levels do not exceed 45 dBA CNEL.

Vibration sources are regulated under Development Code Section 83.01.090, which sets the vibration limit at that which cannot be felt without the aid of instruments at or beyond the property line, and that which does not produce a particle velocity greater than or equal to 0.2 inches per second at the property line. Construction vibration is exempt from this limit between the hours of 7:00 AM and 7:00 PM, except Sundays and federal holidays and motor vehicles are exempt when not under the control of the subject use.

EXISTING CONDITIONS

Stationary Sources

The County Development Code states that noise levels from stationary sources shall not exceed 55 dBA between the hours of 7 a.m. and 10 p.m. and 45 dBA between the hours of 10 p.m. and 7 a.m. at residential properties, or 60 dBA at any time of day at commercial properties, such as the adjacent storage unit. Noise from HVAC units to be installed at the Project should meet these guidelines.

Noise Measurements

The primary noise sources in the vicinity of the Project site include railway traffic and automobile and truck traffic noise from Interstate 10 (I-10), Valley Boulevard, and Cypress Avenue. The overall noise environment at the Project site is influenced by railway traffic traveling on a train track system traveling east-west to the south of the Project site. Traffic volumes for the roadway sections near the Project site are shown in Table 11.

Table 11: Overall Roadway Traffic Information

Roadway Name	Speed Limit (mph)	Vehicle Mix (%)		Current ADT	Future ADT (2035)
		Medium Trucks	Heavy Trucks		
Interstate 10	65	2.45%	7.55%	194,000	250,000
Valley Boulevard	45	2.0%	1.0%	7,200	9,325
Cypress Avenue	25	2.0%	1.0%	1,210	1,824

An on-site inspection and traffic noise measurement were made on the afternoon of Wednesday, January 18, 2012. The weather conditions were as follows: clear skies, moderate humidity, and temperature in the mid-70s with little to no measurable wind. A “one-hour” equivalent measurement was made approximately 30 feet from the centerline of Valley Boulevard, at the eastern property line bordering the vacant lot. The microphone was placed at approximately five feet above the existing Project site grade.

Traffic volumes for Valley Boulevard were recorded for automobiles, medium-size trucks, and large trucks during the measurement period. After a continuous 15-minute sound level measurement, no changes in the L_{eq} were observable and results were recorded. The measured noise level of 76.4 dBA L_{eq} at 30 feet from the centerline of Valley Boulevard was compared to the calculated (modeled) noise level of 75.6 dBA L_{eq} , for the same weather conditions and traffic flow. No adjustment was deemed necessary to model future noise levels for this location due to the small discrepancy between the measured and calculated levels. The Traffic Noise Model is assumed to be representative of actual traffic noise that is experienced on-site. This information is presented in Table 12.

Table 12: Calculated versus Measured Traffic Noise Data

Calibration Receiver Position	Calculated	Measured	Difference	Correction
30' from Valley Blvd CL	75.6 dBA L_{eq}	76.4 dBA L_{eq}	0.8 dB	None applied

X.IIa) Less than significant impact with mitigation incorporated.

Short-Term Construction

The County of San Bernardino Development Code states that temporary construction noise is exempt from the normal noise level limits determined within the code, provided temporary construction activity only takes place between the hours of 7 a.m. to 7 p.m., except Sundays and federal holidays. For this reason, a detailed analysis of temporary construction noise has not been provided. As a general good practice, for any project in which construction activity will take place near occupied residential properties, the following recommendations should be adhered to whenever possible:

1. Turn off equipment when not in use.
2. Equipment used in construction should be maintained in proper operating condition, and all loads should be properly secured, to prevent rattling and banging.
3. Use equipment with effective mufflers.
4. Minimize the use of backup alarms.
5. Equipment staging areas should be placed at locations away from noise-sensitive (occupied) receivers.

Operational Noise Sources

Exterior

Off-Site Mobile Noise

Future development generated by the Project would result in additional traffic on adjacent roadways, thereby increasing vehicular noise in the vicinity of existing and proposed land uses. According to the Traffic Impact Analysis, the Project would generate approximately 918 daily vehicle trips.

Noise Impacts to Outdoor Use Areas

The County of San Bernardino Development Code states that exterior noise levels at outdoor use areas of residential property should typically not exceed 60 CNEL; however, noise levels of 65 CNEL at outdoor use areas shall be allowed if exterior noise levels have been substantially mitigated and interior noise levels do not exceed 45 CNEL.

The four areas analyzed as outdoor-use spaces were the community garden, the tot lot, the pool area, and the daycare open space. These areas were analyzed for future traffic noise levels, future railway noise levels, and combined traffic and railway noise levels as shown in Table 13.

Table 13: Unmitigated Future Combined Noise Levels at Proposed Outdoor Use Areas

Receiver	Description	Traffic Noise Level (CNEL)	Railway Noise Level (CNEL)	Combined Noise Level (CNEL)
R1	Community Garden	54.7	61.2	62.1
R2	Community Garden	58.2	63.3	64.5
R3	Tot lot	58.8	61.6	63.4
R4	Pool	54.2	58.1	59.6
R5	Daycare Open Space	70.1	67.6	72.0

As shown in Table 13, the noise impacts at the daycare open space are anticipated to exceed the County of San Bernardino standard of 65 CNEL. Another condition was analyzed with an eight-foot sound barrier around the perimeter of the daycare open space area. The results of this analysis can be seen below in Table 14.

Table 14: Mitigated Future Combined Noise Levels at Proposed Outdoor Use Areas

Receiver	Description	Traffic Noise Level (CNEL)	Railway Noise Level (CNEL)	Combined Noise Level (CNEL)
R1	Community Garden	55.0	61.2	62.1
R2	Community Garden	58.2	63.1	64.3
R3	Tot lot	55.2	60.6	61.7
R4	Pool	51.9	57.2	58.3
R5	Daycare Open Space	60.7	62.6	64.8

Noise at these receivers is anticipated to be attenuated to 65 CNEL or less by the proposed residential buildings and the eight-foot high noise barrier surrounding the perimeter of the daycare open space.

Noise Impacts at Building Facades

Noise impacts at building facades were calculated including the shielding of the proposed buildings, as well as the buildings at the adjacent storage facility. Calculations show that future noise levels at proposed building facades will range from 50.0 CNEL at the north facade facing the Community Building to 78.9 CNEL at the south facade of Building E, the

southernmost residential building. Due to high noise levels on-site, an exterior to interior analysis should be performed when building plans become available, prior to the issuance of building permits (see Mitigation Measure NOI-1).

Exterior

On-Site Mechanical Equipment Noise

Rather than being placed directly above individual apartment units, the HVAC equipment will be located on the roof over corridors. This placement increases the distance between the equipment and the residential unit itself, thereby reducing the airborne noise impact as well as any vibration transmitted from the unit. For this reason, noise from HVAC equipment is not expected to impact the overall interior noise within on-site units, nor is HVAC vibration anticipated to be an issue.

Unit-to-Unit Noise Transmission

Another source of noise that may affect residential units in multi-family buildings is unit-to-unit noise transmission. The 2007 California State Building Code requires that the Sound Transmission Class (STC) rating of common wall assemblies separating residential units have a minimum laboratory rating of STC 50. The same STC requirement applies for floor/ceiling assemblies, and an added requirement dictates that the Impact Insulation Class (IIC) rating of the floor/ceiling assembly is a minimum laboratory rating of IIC 50. Regardless of floor finish, according to INSUL, the STC rating of this assembly is estimated to be approximately STC 62. This is expected to meet the California State Building Code STC requirement.

Project-Related Noise Impacts on Surrounding Property Lines

As proposed HVAC units are likely to be operational during nighttime hours, 45 dBA will be considered the noise limit at surrounding residential property lines. This Project includes the installation of HVAC units for residential units as well as the community center and office. Noise created by HVAC units was evaluated at neighboring property lines to determine if a significant impact would occur at any of these surrounding locations. As depicted in Table 15, no additional mitigation is deemed necessary to attenuate noise levels from HVAC units at surrounding properties, as noise levels would not exceed limits set by the County of San Bernardino.

Table 15: Worst-Case HVAC Noise Levels at Surrounding Property Lines

Receiver	Description	Noise Level (dBA)
R1	North Property Line	41.0
R2	East Property Line	33.1
R3	East Property Line	40.9
R4	South Property Line	41.5
R5	West Property Line	42.5
R6	West Property Line	38.8

Project Generated Noise for Outdoor Use Areas

Eilar Associates, Inc. prepared a letter report (dated January 28, 2016) analyzing noise related to activities at outdoor use areas including the tot lots, pool area, and the courtyard.

The only sources of noise anticipated to be present at the outdoor use areas will be human voices. Based on the letter report (2016), at a distance of 3.28 feet, an average male will generate a noise level of 75 dBA when speaking with a loud voice, and 65 dBA when speaking with a raised voice. A female will generate a noise level of 71 dBA when speaking with a loud voice, and 62 dBA when speaking with a raised voice. It should be noted that these noise measurements assume constant speech, and do not account for averaging of sound levels with periods of lower noise levels, such as during pauses or breathing. As no noise measurements are available for children, it was assumed that children have a similar voice characteristic as that of women.

As previously discussed, the County of San Bernardino Development Code states that noise levels from stationary sources shall not exceed 55 dBA between the hours of 7 a.m. and 10 p.m. and 45 dBA between the hours of 10 p.m. and 7 a.m. at residential properties. All receivers assessed in this analysis are residential properties. As there will be relatively little activity at the project related outdoor use areas during the nighttime hours, the daytime limit of 55 dBA was considered as the applicable noise limit for this analysis

Worst-case assumptions were made for the number individuals occupying each gathering area. Each individual was calculated as speaking for 100 percent of every hour, and is therefore extremely conservative.

Table 1. Calculated Noise Impacts from Outdoor Use Areas			
Receiver Number	Approximate Distance to Pool Area (feet)	Noise Limit (dBA)	Exterior Noise Impact (dBA)
R-1 North Property Line	435	55	42
R-2 East Property Line	85	55	54
R-3 East Property Line (Across Cypress Ave)	235	55	50

As shown above, even considering highly conservative assumptions of usage within proposed outdoor areas on the project site, noise impacts from the activity at outdoor use areas on the property are anticipated to remain in compliance with the County of San Bernardino daytime noise limits at all surrounding properties with the project as currently designed. Thus, no mitigation measures are warranted in this regard.

Project-Generated Vehicle Traffic Noise

The traffic impact analysis for the proposed Project was evaluated to determine Project - generated traffic noise impacts at neighboring receivers. The two intersections evaluated in

depth were Cypress Avenue and Valley Boulevard, and Cypress Avenue and H Street. Existing AM/PM peak hour traffic volumes were first compared to the year 2017 cumulative AM/PM peak hour traffic volumes without the influence of the Project to determine the increase in the noise environment. Next, the existing AM/PM peak hour traffic volumes were compared to the year 2017 cumulative AM/PM peak hour traffic volumes with the influence of Project traffic to determine the increase in the noise environment. Finally, these two figures were subtracted to determine the impact caused by the proposed Project itself.

After analyzing the three intersections in question, it has been determined that the maximum increase in the noise environment will be 1.2 dB. This increase is considered to be insignificant, as an increase of 3 dB is widely accepted as “barely perceptible” increase. Project-generated traffic noise will have an insignificant impact on surrounding properties.

With the proposed building structures in place and an eight-foot noise barrier around the Daycare Open Space, constructed as recommended, all designated outdoor use areas are anticipated to meet the 65 CNEL noise limit. Due to high exterior noise levels at building facades, an exterior-to-interior noise analysis is required by the California Building Code, prior to approval of building permits, to determine building features necessary to reduce interior noise levels to 45 CNEL or less in residential spaces, as required by the State of California and the County of San Bernardino. This analysis should be conducted when building plans become available.

Project-generated noise impacts to surrounding properties are expected to be insignificant. Noise levels from ground-mounted air conditioning equipment will not exceed the applicable noise limits set by the County at any surrounding property lines, in compliance with the County of San Bernardino Development Code. Project-generated noise from outdoor areas would be less than significant. Project-generated traffic noise will have an insignificant impact on surrounding properties. Temporary noise impacts from construction on-site are expected to be controllable by standard construction noise control methods including adhering to permissible hours of operation, maintaining equipment in proper operating condition, and placing staging areas at farthest locations from noise sensitive receivers.

- XIIb) Less than significant impact.** Project construction can generate varying degrees of groundborne vibration, depending on the construction procedure and the construction equipment used. Operation of construction equipment generates vibrations that spread through the ground and diminish in amplitude with distance from the source. The effect on buildings located in the vicinity of the construction site often varies depending on soil type, ground strata, and construction characteristics of the receiver building(s). The results from vibration can range from no perceptible effects at the lowest vibration levels, to low rumbling sounds and perceptible vibration at moderate levels, to slight damage at the highest levels. Groundborne vibrations from construction activities rarely reach levels that damage structures.

The types of construction vibration impact include human annoyance and building damage. Human annoyance occurs when construction vibration rises significantly above the threshold of human perception for extended periods of time. Building damage can be cosmetic or structural. Ordinary buildings that are not particularly fragile would not experience any cosmetic damage (e.g., plaster cracks) at distances beyond 30 feet. This distance can vary substantially depending on the soil composition and underground geological layer between vibration source and receiver. In addition, not all buildings respond similarly to vibration generated by construction equipment. The vibration produced by construction equipment is presented in Table 16.

Table 16: Typical Vibration Levels for Construction Equipment

Equipment	Approximate peak particle velocity at 25 feet (inches/second)
Large bulldozer	0.089
Loaded trucks	0.076
Small bulldozer	0.003

Notes:

¹ Federal Transit Administration, Transit Noise and Vibration Impact Assessment Guidelines, May 2006. Table 12-2.

² Calculated using the following formula:

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

where

PPV (equip) = the peak particle velocity in inch per second of the equipment adjusted for the distance PPV (ref) = the reference vibration level in inch per second from Table 12-2 of the FTA Transit Noise and Vibration Impact Assessment Guidelines

D = the distance from the equipment to the receiver

Source: Federal Transit Administration, Transit Noise and Vibration Impact Assessment Guidelines, May 2006.

The nearest structures to the Project site are the residential uses located to the north and east as well as the commercial storage use to the west. Groundborne vibration decreases rapidly with distance. As indicated in Table 17, based on the Federal Transit Administration (FTA) data, vibration velocities from typical heavy construction equipment operation that would be used during Project construction range from 0.003 to 0.089 inch-per-second peak particle velocity (PPV) at 25 feet from the source of activity. For the proposed development, groundborne vibration would be generated primarily during grading activities. As construction activities would be limited and would not be concentrated within 25 feet of the nearby structures for an extended period of time, vibration impacts would be less than significant.

XIIc) Less than significant impact. Refer to the “Long-Term Operational Impacts” discussion under Section XIIa) above.

XIId) Less Than Significant Impact with Mitigation Incorporated. Refer to the “Short-Term Impacts” discussion under Section XIIa) above.

XIle-f) No Impact. Refer to the *Noise Abatement and Control* section of the Statutory Checklist above.

Mitigation Measures:

- NOI-1** Prior to the issuance of building permits, the Project applicant shall conduct an exterior-to-interior noise analysis based on building plans and include any building features necessary to achieve an interior noise level of 45 CNEL or less within residential spaces.
- NOI-2** Implement standard construction noise controls including:
- Adhere to permissible hours of operation consistent with County requirements;
 - Maintain equipment in proper operating conditions, including mufflers; and
 - Place staging areas at farthest locations from noise sensitive receivers.
 - The contractor shall place all stationary construction equipment so that emitted noise is directed away from the noise sensitive receptors nearest the project site.
- NOI-3** The construction contractor shall locate equipment staging in areas that will create greatest distance between construction-related noise sources and noise sensitive receptors nearest the project site during all project construction activities.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
XIII. Population and Housing <i>Would the Project:</i>				
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SUBSTANTIATION:

X.IIIa) Less Than Significant Impact. Refer to the *Demographic Character Changes* section of the Environmental Assessment Checklist above.

X.IIIb-c) No Impact. Refer to the *Displacement* section of the Environmental Assessment Checklist above.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
XIV. Public Services <i>Would the Project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:</i>				
a) Fire protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Police protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SUBSTANTIATION:

XIVa-1) Less Than Significant Impact. Refer to the *Public Safety–Fire* section of the Environmental Assessment Checklist above.

XIVa-2) Less Than Significant Impact. Refer to the *Public Safety–Police* section of the Environmental Assessment Checklist above.

XIVa-3) Less Than Significant Impact. Refer to the *Educational Facilities* section of the Environmental Assessment Checklist above.

XIVa-4) Less Than Significant Impact. Refer to the *Open Space and Recreation* sections of the Environmental Assessment Checklist above.

XIVa-5) Less Than Significant Impact. Refer to the *Cultural Facilities* section of the Environmental Assessment Checklist above.

Mitigation Measures:

No significant adverse impact is anticipated; therefore, no mitigation is required.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
XV. Recreation				
a) Would the Project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Does the Project include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SUBSTANTIATION:

XVa-b) Less Than Significant Impact. Refer to the *Open Space and Recreation* sections of the Environmental Assessment Checklist above.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
XVI. Transportation/Traffic <i>Would the Project:</i>				
a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Result in inadequate emergency access?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SUBSTANTIATION:

The following environmental evaluation is based on the Traffic Impact Analysis prepared by Linscott Law and Greenspan (2015), which is included as Appendix G of this Initial Study.

XVIa) Less Than Significant Impact. The trip generation potential of the Project was estimated using the average rates for ITE Land Use 220: Apartments trip rates, ITE Land Use 495: Recreational Community Center rates and ITE Land Use 565: Day Care Center trip rates published in the *Trip Generation*, 9th Edition, Institute of Transportation Engineers. Table 17

below, depicts the trip generation rates used to forecast proposed trips and summarizes the Project's daily, AM peak hour, and PM peak hour trip generation potential.

Table 17: Project Trip Generation

ITE Land Use Code/Project Description	Daily 2-Way	AM Peak Hour Volumes			PM Peak Hour Volumes		
		Enter	Exit	Total	Enter	Exit	Total
Generation Factors							
220: Apartments (TE/DU)	6.65	0.10	0.41	0.51	0.40	0.22	0.62
495: Recreational Community Center (TE/1,000 sf)	33.8	1.35	0.70	2.05	1.34	1.40	2.74
565: Day Care Center (TE/Student)	4.38	0.42	0.38	0.80	0.38	0.43	0.81
Project Generation Forecast							
Las Terrazas – Apartments (100 DU)	665	10	41	51	40	22	62
Las Terrazas – Neighborhood Service Building (1,000 sf)	34	1	1	2	1	2	3
Las Terrazas – Day Care Center (50 Students)	219	21	19	40	19	22	41
Traffic Generation Forecast	918	32	61	93	60	46	106

The Project would generate up to 918 daily trips during a typical weekday, including up to 93 trips in the AM peak hour (32 inbound and 61 outbound) and up to 106 trips in the PM peak hour (60 inbound and 46 outbound).

Four intersections were studied in the Traffic Impact Analysis (LL&G 2013; Appendix H): Cypress Avenue at H Street (County of San Bernardino), Pepper Avenue at Valley Boulevard (City of Colton/County of San Bernardino), Cypress Avenue at Valley Boulevard (County of San Bernardino), and Rancho Avenue at Valley Boulevard (City of Colton).

Based on the County of San Bernardino and City of Colton guidelines, level of service (LOS) C is the minimum acceptable level of service that should be maintained during peak commute hours. Volume/capacity calculations were performed at the four (4) key intersections for existing, existing plus Project, year 2015 cumulative without Project, year 2015 cumulative plus Project conditions, year 2035 cumulative without Project, and year 2035 cumulative plus Project conditions. All four study intersections are operating at LOS C or better during the weekday AM and PM peak hours under existing traffic conditions. As shown in Table 18, under existing plus traffic Project conditions, Project-related traffic will not significantly impact any of the four key study intersections. Thus, no traffic mitigation measures are

required or recommended for the study intersections under the existing with Project conditions.

Table 18: Existing Plus Project Peak Hour Intersection Capacity Analysis

Key Intersections	Time Period	(1) Existing Traffic Conditions			(2) Existing Plus Project Traffic Conditions			(3) Significant Impact
		Delay	V/C	LOS	Delay	V/C	LOS	Yes/No
Cypress Avenue at H Street	AM	8.9 s/v	—	A	9.0 s/v	—	A	No
	PM	8.6 s/v	—	A	8.7 s/v	—	A	No
Pepper Avenue at Valley Boulevard	AM	24.5 s/v	0.554	C	24.8 s/v	0.560	C	No
	PM	23.7 s/v	0.462	C	24.0 s/v	0.469	C	No
Cypress Avenue at Valley Boulevard	AM	10.3 s/v	—	B	10.5 s/v	—	B	No
	PM	11.9 s/v	—	B	12.1 s/v	—	B	No
Rancho Avenue at Valley Boulevard	AM	31.0 s/v	0.673	C	31.4 s/v	0.691	C	No
	PM	27.8 s/v	0.631	C	28.4 s/v	0.639	C	No
Notes: s/v = seconds per vehicle (delay)								

For the year 2015 cumulative without Project conditions, as shown in Table 19, all of the study intersections are expected to continue operating at LOS C or better during the weekday AM and PM peak hours with the addition of ambient traffic growth and traffic due to the related cumulative projects. As shown in Table 19, operating conditions of the street system under the year 2015 cumulative plus Project conditions are not expected to create any significant impacts at the four study intersections. Therefore, no traffic mitigation measures are required or recommended for the study intersections under the year 2015 cumulative plus Project conditions.

Table 19: Year 2015 Peak Hour Intersection Capacity Analysis

Key Intersections	Time Period	(1) Existing Traffic Conditions			(2) Year 2015 Cumulative Traffic Conditions			(3) Year 2015 Cumulative Plus Project Traffic Conditions			(4) Significant Impact
		Delay (s/v)	V/C	LOS	Delay (s/v)	V/C	LOS	Delay (s/v)	V/C	LOS	Yes/No
Cypress Avenue at H Street	AM	8.9	—	A	9.0	—	A	9.0	—	A	No
	PM	8.6	—	A	8.7	—	A	8.7	—	A	No
Pepper Avenue at Valley Boulevard	AM	24.5	0.554	C	24.9	0.587	C	25.2	0.593	C	No
	PM	23.7	0.462	C	24.0	0.500	C	24.3	0.504	C	No

Key Intersections	Time Period	(1) Existing Traffic Conditions			(2) Year 2015 Cumulative Traffic Conditions			(3) Year 2015 Cumulative Plus Project Traffic Conditions			(4) Significant Impact
		Delay (s/v)	V/C	LOS	Delay (s/v)	V/C	LOS	Delay (s/v)	V/C	LOS	Yes/No
Cypress Avenue at Valley Boulevard	AM	10.3	—	B	10.4	—	B	10.6	—	B	No
	PM	11.9	—	B	12.3	—	B	12.4	—	B	No
Rancho Avenue at Valley Boulevard	AM	31.0	0.673	C	31.8	0.714	C	32.3	0.732	C	No
	PM	27.8	0.631	C	28.7	0.669	C	29.3	0.677	C	No

For the year 2035 cumulative without Project conditions, as shown in Table 20, all of the study intersections are expected to continue operating at LOS C or better during the weekday AM and PM peak hours with the addition of ambient traffic growth and traffic due to the related cumulative projects. As shown in Table 20, operating conditions of the street system under the year 2035 cumulative plus Project conditions are not expected to create any significant impacts at the four study intersections. Therefore, no traffic mitigation measures are required or recommended for the study intersections under the year 2035 cumulative plus Project conditions.

Table 20: Year 2035 Peak Hour Intersection Capacity Analysis

Key Intersections	Time Period	(1) Existing Traffic Conditions			(2) Year 2035 Cumulative Traffic Conditions			(3) Year 2035 Cumulative Plus Project Traffic Conditions			(4) Significant Impact
		Delay (s/v)	V/C	LOS	Delay (s/v)	V/C	LOS	Delay (s/v)	V/C	LOS	Yes/No
Cypress Avenue at H Street	AM	8.9	—	A	9.1	—	A	9.1	—	A	No
	PM	8.6	—	A	8.7	—	A	8.7	—	A	No
Pepper Avenue at Valley Boulevard	AM	24.5	0.554	C	25.8	0.659	C	26.1	0.665	C	No
	PM	23.7	0.462	C	24.7	0.560	C	25.0	0.565	C	No
Cypress Avenue at Valley Boulevard	AM	10.3	—	B	11.1	—	B	11.3	—	B	No
	PM	11.9	—	B	13.6	—	B	13.8	—	B	No
Rancho Avenue at Valley Boulevard	AM	31.0	0.673	C	34.1	0.801	C	34.9	0.818	C	No
	PM	27.8	0.631	C	30.8	0.751	C	31.4	0.759	C	No

Based on the above analysis, the Project would not conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system. The Project would result in less than significant impacts on traffic/circulation and the surrounding roadway network.

XVIb) No Impact. The purpose of the Congestion Management Program (CMP) is to develop a coordinated approach to managing and decreasing traffic congestion by linking the various transportation, land use, and air quality planning programs throughout the County, consistent with that of the Southern California Association of Governments (SCAG). The CMP requires review of substantial individual projects, which might on their own impact the CMP transportation system. Specifically, the Congestion Management Program (CMP) Traffic Impact Analysis (TIA) measures impacts of a Project on the CMP Highway System (CMPHS).

Since the proposed Project does not generate 250 or more two-way peak hour trips, a San Bernardino County Congestion Management Program (CMP) traffic analysis is not required for the proposed Project. No impacts would occur in this regard.

XVIc) No Impact. The Project involves development of 112 multi-family homes for low- and very low-income households in the unincorporated portion of San Bernardino County. Due to the nature and scope of the proposed development, Project implementation would not result in a change in air traffic patterns that results in substantial safety risks.

XVI d) Less Than Significant Impact with Mitigation Incorporated. Access to the proposed Project site will be provided via one full access unsignalized driveway located along Valley Boulevard. A “Stop” sign and stop bar is proposed at the Project driveway on Valley Boulevard. It is proposed that Valley Boulevard be restriped along the Project frontage to provide a two-way-left-turn-lane. It is also recommended that the existing eastbound left-turn lane at the intersection of Cypress Avenue/Valley Boulevard be restriped to provide 60 feet of storage with a 90 foot transition. The signal and two-way-left-turn-lane on Valley Boulevard along with the restriping of Cypress Avenue/Valley Boulevard would be reviewed for consistency with County standards for intersections and driveways. Therefore, with implementation of the “Stop” sign at the main entry, Project implementation would not increase hazards due to a dangerous intersection. Refer to the *Compatibility and Urban Impact* section above for a discussion addressing land use compatibility.

XVIe) Less Than Significant Impact. Vehicular access to the proposed Project site will be provided via one full access unsignalized driveway located along Valley Boulevard. The proposed access point along Valley Boulevard will be gated; however the proposed gate will be located beyond the parking spaces allocated for the day care center and community service building. An emergency only access will be provided via one gated driveway along Cypress Avenue, located directly opposite H Street. The San Bernardino County Fire Department would review the proposed Site Plan to verify compliance with minimum standards for emergency access. Therefore, the Project would not result in inadequate emergency access.

XVIf) Less Than Significant Impact. Refer to the *Transportation* section of the Environmental Assessment Checklist above.

Mitigation Measure:

- TRA-1**
- 1) Install a “STOP” sign and stop pavement markings at the Project driveway on Valley Boulevard.
 - 2) Install a “STOP” sign and stop pavement markings at the project driveway on Cypress Avenue.
 - 3) Valley Boulevard shall be restriped along the Project frontage to provide a two-way-left-turn-lane. The existing eastbound left-turn lane at the intersection of Cypress Avenue/Valley Boulevard shall be restriped to provide 60 feet of storage with a 90 foot transition.
 - 4) The project shall pay the applicable fair share fees relating to the Regional Transportation Facilities Mitigation Plan for the Colton Subarea. Prior to the issuance of a building permit, the Applicant shall pay current fees in accordance with the Regional Transportation Fee website: http://www.sbcounty.gov/dpw/transportation/transporation_planning.asp.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
XVII. Utilities and Service Systems <i>Would the Project:</i>				
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Have sufficient water supplies available to serve the Project from existing entitlements and resources, or are new or expanded entitlements needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Result in a determination by the wastewater treatment provider which serves or may serve the Project that it has adequate capacity to serve the Project's projected demand in addition to the provider's existing commitments?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) Be served by a landfill with sufficient permitted capacity to accommodate the Project's solid waste disposal needs?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g) Comply with federal, state, and local statutes and regulations related to solid waste?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SUBSTANTIATION:

XVIIa) Less Than Significant Impact. As concluded in the *Waste Water* section of the Environmental Assessment Checklist above, the Project would generate waste water, creating a demand for waste water treatment. Waste water generated by the Project would be collected a City owned and operated wastewater collection, pumping, and treatment system. The Regional Water Quality Control Board, Santa Ana Region, issued a National Pollutant Discharge Elimination System (NPDES) permit, which includes the City as a Permittee. That NPDES permit implements federal and state law governing point source

discharges (a municipal or industrial discharge at a specific location or pipe) and nonpoint source discharges (diffuse runoff of water from adjacent land uses) to surface waters of the United States. Implementation of the Project would only nominally increase wastewater generation, thus, nominally increasing the demand for wastewater treatment; refer to Response 4.17.b. Therefore, given the nature and scope of the Project, Project implementation would not cause an exceedance of wastewater treatment requirements of the applicable Regional Water Quality Control Board.

XVIIb) Less Than Significant Impact. Refer to the *Waste Water* section of the Environmental Assessment Checklist above.

XVIIc) Less Than Significant Impact. Refer to the *Waste Water* and *Water Supply* sections of the Environmental Assessment Checklist above.

XVIId) Less Than Significant Impact. Refer to the *Water Supply* section of the Environmental Assessment Checklist above.

XVIIe) Less Than Significant Impact. Refer to the *Waste Water* section of the Environmental Assessment Checklist above.

XVIIIf) Less Than Significant Impact With Mitigation Incorporated. Refer to the *Solid Waste* section of the Environmental Assessment Checklist above.

XVIIg) Less Than Significant Impact With Mitigation Incorporated. Refer to the *Solid Waste* section of the Environmental Assessment Checklist above.

Mitigation Measures:

USS-1 Prior to issuance of the Grading or Building Permit, the Project shall prepare and submit for review to the County's Solid Waste Management Division a Construction and Demolition Solid Waste Management Plan. The Plan shall:

- Include measures to ensure that a minimum of 50 percent of the construction waste is diverted;
- Estimate the amount of tonnage to be disposed and diverted during construction; and
- Provide evidence of what tonnage was actually diverted and disposed of. Disposal and/or diversion receipts or certifications shall be provided to the County, as part of the Plan.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
XVIII. Mandatory Findings of Significance				
a) Does the Project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Does the Project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Does the Project have environmental effects, which will cause substantial adverse effects on human beings, either directly or indirectly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SUBSTANTIATION:

XVIIIa) Less Than Significant Impact. As concluded in the *Endangered Species Act* section above, no special-status plant/wildlife species or sensitive habitats were observed within the Project boundaries. Additionally, special-status plant/wildlife species and sensitive habitats do not have the potential to occur and are presumed absent from the Project site. Therefore, the Project does not have the potential to significantly degrade the overall quality of the region's environment, or substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population or drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal.

XVIIIb) Less Than Significant With Mitigation Incorporated. The Project does not have impacts that are individually limited, but cumulatively considerable. Special studies prepared to analyze Project impacts consider and evaluate existing and planned conditions of the surrounding area and the region. Existing and planned infrastructure in the surrounding area has considered planned build out of the area, including the Project site. Cumulative impacts

relating to health risks (see Appendix D) were found to be less than significant with implementation of mitigation.

XVIIIc) Less Than Significant Impact. The design of the Project, with application of County policies, standards, and design guidelines ensure that there would be no substantial adverse effects on human beings, either directly or indirectly. Impacts relating to health risks and noise (see Appendix F) were found to be less than significant with implementation of mitigation. Impacts of the proposed Project would be less than significant.

MITIGATION MEASURES RECOMMENDED [24 CFR 58.40(D), 40 CFR 1508.20]

(Recommend feasible ways in which the proposal or external factors relating to the proposal should be modified in order to eliminate or minimize adverse environmental impacts.)

AIR QUALITY

AQ-1 Dust Control Plan. Prior to Grading Permit or Building Permit issuance, the “developer” shall prepare, submit for review, and obtain approval from County Planning of both a Dust Control Plan (DCP) consistent with SCAQMD guidelines and a signed letter agreeing to include in any construction contracts/subcontracts a requirement that Project contractors adhere to the DCP requirements. The DCP shall include the following requirements:

- a) Exposed soil shall be kept continually moist to reduce fugitive dust during all grading and construction activities, through application of water sprayed a minimum of three times each day during dry weather. Watering, with complete coverage of disturbed areas, shall occur at least three times a day, preferably in the mid-morning, afternoon, and after work is done for the day.
- b) The contractor shall ensure that traffic speeds on unpaved roads and the Project site areas are reduced to 15 miles per hour or less to reduce PM₁₀ and PM_{2.5} fugitive dust haul road emissions.
- c) Any portion of the site to be graded shall be pre-watered to a depth of three feet prior to the onset of grading activities.
- d) The contractor shall ensure that during high wind conditions (i.e., wind speeds exceeding 25 mph), areas with disturbed soil shall be watered hourly and activities on unpaved surfaces shall cease until wind speeds no longer exceed 25 mph.
- e) Any area that would remain undeveloped for a period of more than 30 days shall be stabilized using either chemical stabilizers and/or a desert wildflower mix hydroseed on the affected portion of the site.
- f) The contractor shall ensure that storage piles that are to be left in place for more than three working days shall be sprayed with a non-toxic soil binder, covered with plastic or revegetated.
- g) The contractor shall ensure that imported fill and exported excess cut shall be adequately watered prior to transport, covered during transport, and watered prior to unloading.
- h) The contractor shall ensure that storm water control systems shall be installed to prevent off-site mud deposition.

- i) All trucks hauling dirt away from the site shall be covered.
- j) The contractor shall ensure that construction vehicle tires shall be washed, prior to leaving the Project site.
- k) The contractor shall ensure that rumble plates shall be installed at construction exits from dirt driveways.
- l) The contractor shall ensure that paved access driveways and streets shall be washed and swept daily when there are visible signs of dirt track-out.
- m) Street sweeping shall be conducted daily when visible soil accumulations occur along site access roadways to remove dirt dropped or tracked-out by construction vehicles. Site access driveways and adjacent streets shall be washed daily, if there are visible signs of any dirt track-out at the conclusion of any workday and after street sweeping.
- n) The contractor shall post the phone number of the SCAQMD for complaints regarding excessive fugitive dust generation.

AQ-2

HVAC Requirements. The buildings will be equipped with a central heating, ventilation, and air conditioning (HVAC) system that includes high efficiency filters for particulates (Minimum Efficiency Reporting Value [MERV] 16). Any windows within a 500' distance to I-10 and facing the freeway are required to be inoperable, except as required for emergency egress. The project shall include tree plantings between residential dwellings and the freeway. To ensure long-term maintenance and replacement of the MERV filters in the individual units, the following shall occur:

- a) Developer, sale, and/or rental representative shall provide notification to all affected tenants/residents of the potential health risk for affected units.
- b) For rental units, the owner/property manager shall maintain and replace MERV filters in accordance with the manufacture's recommendations. The property owner shall keep a maintenance log schedule with proof of the filter replacements. Such log shall be available for inspection by the County of San Bernardino Building and Safety Department. The property owner shall inform renters of increased risk of exposure to diesel particulates when windows are open.
- c) Outdoor active-use public recreational areas, community center, and child care center associated with development project shall be located as far north in the project site plan as possible to distance these areas from the effects on Interstate 10 and the rail line.

AQ-3

Odor Reporting. Prior to site disturbance and grading activities, the contractor shall provide a cell phone number, assigned to a superintendent on the job, to members of the public residing abutting the project site along the north and east property boundaries and to members of the public residing on the east side of Cypress

Avenue, between Valley Boulevard and Jackson Street for reporting odors associated with the project during site disturbance and or grading/construction activities.

CULTURAL RESOURCES

CUL-1 In the event that buried cultural resources are discovered during construction, operations shall stop in the immediate vicinity of the find and a qualified archaeologist shall be consulted to determine whether the resource requires further study. The qualified archaeologist shall make recommendations to the Lead Agency on the measures that shall be implemented to protect the discovered resources, including but not limited to excavation of the finds and evaluation of the finds in accordance with Section 15064.5 of the CEQA Guidelines. Potentially significant cultural resources consist of but are not limited to stone, bone, fossils, wood, or shell artifacts or features, including hearths, structural remains, or historic dumpsites. Any previously undiscovered resources found during construction within the project area should be recorded on appropriate DPR forms and evaluated for significance in terms of CEQA criteria.

If the resources are determined to be unique historic resources as defined under Section 15064.5 of the CEQA Guidelines, mitigation measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds.

No further grading shall occur in the area of the discovery until the Lead Agency approves the measures to protect these resources. Any archaeological artifacts recovered as a result of mitigation shall be donated to a qualified scientific institution approved by the Lead Agency where they would be afforded long-term preservation to allow future scientific study.

CUL-2 If the subsurface excavations for this project are proposed to exceed depths of 10 feet below surface, a qualified County-approved paleontological monitor should be retained to observe such excavations, which may breach the older underlying sediments and have a moderate potential to produce fossilized materials. In this situation, a detailed Mitigation Monitoring Plan (MMP) or Paleontological Resource Impact Management Plan (PRIMP) should be prepared in order to set forth the observation, collection, and reporting duties of the paleontological monitor. Additional mitigation measures and procedures will be outlined in the MMP or PRIMP as needed.

CUL-3 If human remains are encountered, State Health and Safety Code Section 7050.5 states that work shall stop immediately and that no further disturbance shall occur in the vicinity until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. The County Coroner

must be notified of the find immediately. If the remains are determined to be prehistoric, the Coroner will notify the Native American Heritage Commission (NAHC), which will determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 24 hours of notification by the NAHC. The MLD may recommend scientific removal and nondestructive analysis of human remains and items associated with Native American burials. Contact the County Coroner at 175 South Lena Road, San Bernardino, CA 92415-0037 or (909) 387-2543.

GEOLOGY AND SOILS

GEO-1 Once project grading plans are prepared and available, the project geotechnical consultant shall review the grading plans relative to their recommendations in the Updated Geotechnical Investigation dated September 5, 2015 prepared by Geocon West, Inc. The geotechnical consultant shall prepare a Grading Plan Review Report, which shall be submitted the County for review and approval prior to grading permit issuance.

HAZARDS AND HAZARDOUS MATERIALS

HAZ-1 Prior to the issuance of a grading permit, the Project Applicant shall provide documentation to the County of San Bernardino indicating DTSC approval of a plan containing all corrective measures required for the Project to remove contaminated soil.

Prior to the issuance of an occupancy permit, the Applicant shall implement all feasible corrective measures and establish any ongoing measures required (i.e. monitoring) to demonstrate that on-site soils are within residential California Human Health Screening Levels for constituents of concern.

HYDROLOGY AND WATER QUALITY

HYD-1 Prior to issuance of Grading or Building Permit, the Project shall obtain coverage under the General Permit for Discharges of Storm Water Associated with Construction Activity Construction General Permit Order 2009-0009-DWQ, which includes filing a Notice of Intent (NOI) and preparation of a Storm Water Pollution Prevention Plan (SWPPP), and shall provide evidence to the County of compliance with Development Code Section 85.11.030, which requires preparation of Soil Erosion Pollution Prevention Plan and inspection.

NOISE AND VIBRATION

NOI-1 Prior to the issuance of building permits, the Project applicant shall conduct an exterior-to-interior noise analysis based on building plans and include any building features necessary to achieve an interior noise level of 45 CNEL or less within residential spaces.

- NOI-2** Implement standard construction noise controls including:
- Adhere to permissible hours of operation consistent with County requirements;
 - Maintain equipment in proper operating conditions, including mufflers; and
 - Place staging areas at farthest locations from noise sensitive receivers.

- NOI-3** The construction contractor shall locate equipment staging in areas that will create greatest distance between construction-related noise sources and noise sensitive receptors nearest the project site during all project construction activities.

TRANSPORTATION AND TRAFFIC

- TRA-1** 1) Install a “STOP” sign and stop bar at the Project driveway on Valley Boulevard.
- 2) Valley Boulevard shall be restriped along the Project frontage to provide a two-way-left-turn-lane. The existing eastbound left-turn lane at the intersection of Cypress Avenue/Valley Boulevard shall be restriped to provide 60 feet of storage with a 90 foot transition (refer to *Figure 9-1*).

UTILITIES AND SERVICE SYSTEMS

- USS-1** Prior to issuance of the Grading or Building Permit, the Project shall prepare and submit for review to the County’s Solid Waste Management Division a Construction and Demolition Solid Waste Management Plan. The Plan shall:
- Include measures to ensure that a minimum of 50 percent of the construction waste is diverted;
 - Estimate the amount of tonnage to be disposed and diverted during construction; and
 - Provide evidence of what tonnage was actually diverted and disposed of. Disposal and/or diversion receipts or certifications shall be provided to the County, as part of the Plan.

ADDITIONAL STUDIES PERFORMED (ATTACH STUDIES OR SUMMARIES)

See attached additional studies:

1. Andersen Environmental. 2012. Environmental Sampling. January 20.
2. Andersen Environmental. 2013. Asbestos Abatement Work-Plan. March 11.
3. Andersen Environmental. 2013. Lead Compliance Work-Plan. March 11.
4. Andersen Environmental. 2013. Phase I ESA. March 14.
5. Andersen Environmental. 2013. Pre-Demolition Asbestos Assessment Report. February 13.
6. Andersen Environmental. 2013. Certificate of Final Inspection and Asbestos Clearance. April 24.
7. Andersen Environmental. 2013. Pre-Demolition Lead- Based Paint Inspection Report. February 18.
8. Andersen Environmental. 2012. Results of Environmental Sampling. January 20.
9. Andersen Environmental. 2013. Certificate of Final Inspection and Lead Clearance. April 24.
10. Eilar Associates, Inc. 2015. Acoustical Analysis Report. October 13.
11. Eilar Associates, Inc. 2013. Cultural Resources Assessment.
12. Eilar Associates, Inc. 2013. Paleontological Assessment.
13. Eilar Associates, Inc. 2015. Revised Air Quality and Greenhouse Gas Assessment. October 8.
14. Eilar Associates, Inc. 2016. Technical Memorandum. January 27.
15. Geocon West, Inc. 2013. Updated Geotechnical Investigation. February 20.
16. Glenn Lukos Associates. 2014. Habitat Assessment for Burrowing Owl. August 29.
17. Glenn Lukos Associates. 2014. Habitat Assessment for Delhi Sands flower-loving fly. September.
18. Linscott Law and Greenspan Engineers. 2015. Laz Terrazas Project Traffic Impact Analysis. March 12.
19. Rincon Consultants. 2014. Phase II Environmental Site Characterization Report. December 8.
20. Rincon Consultants. 2016. Additional Site Characterization Workplan. January 14.
21. Rincon Consultants. 2016. DRAFT Removal Action Workplan. January 27.
22. San Bernardino County Museum. 2012. Historical Resources Review.
23. Withee Malcolm Architects, LLP. 2016. Project Plans/Information, Las Terrazas at Colton CA, Unincorporated San Bernardino County. January.

LIST OF SOURCES, AGENCIES AND PERSONS CONSULTED

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4. California Air Resources Board. 2012. Website: http://www.arb.ca.gov/planning/sip/planarea/scabsip.htm#2012_plan. Accessed October 22, 2014
5. California Coastal Commission. 2012. South Coast District Office Jurisdictional Boundary – Coastal Zone Boundary. Website: <http://www.coastal.ca.gov/>. Accessed October 2, 2014.
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8. California Department of Conservation. 2013. San Bernardino County Williamson Act FY 2012/2013 Map, Sheet 2 of 2. Website: <ftp://ftp.consrv.ca.gov/pub/dlrp/wa/sanbernardinoso1213WA.pdf>. Accessed October 2, 2014.
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**Attachment A:
Project Plans and Information**

**Attachment B:
Cultural Resources**

**Attachment C:
Biological Resources**

C.1 - Habitat Assessment for Delhi Sands Flower-loving Fly

C.2 - Habitat Assessment for Burrowing Owl

**Attachment D:
Air Quality and Greenhouse Gases**

D.1 - Air Quality and Greenhouse Gas Report

D.2 - Technical Memorandum

D.3 - Air Quality-Greenhouse Gas-Health Risk Assessment Supporting Documentation

**Attachment E:
Hazardous Materials**

E.1 - General Hazardous Materials

E.2 - Lead

E.3 - Asbestos

**Attachment F:
Noise**

F.1 - Noise Report

F.2 - Recreational Areas

**Attachment G:
Traffic Impact Analysis**

**Attachment H:
Geology and Soils**

**Attachment I:
Hydrology**

I.1 - Drainage Study

I.2 - Sewer

I.3 - Water

I.4 - Water Quality Management Plan

EXHIBIT D

Mitigation Measures

Mitigation Monitoring and Reporting Program

Prepared for:
**U.S. Department of Housing
and Urban Development**
California State Office of Community Development
Environmental Branch

Project Identification:
Las Terrazas Mixed-Use Affordable Housing and Childcare Project
275 and 291 Cypress Avenue
Colton, CA, 92324

Responsible Entity:
County of San Bernardino
County of San Bernardino Economic Development Agency
385 North Arrowhead Ave, 3rd Floor
San Bernardino, CA 92415

April 2016

Table 1: Las Terrazas Mixed-Use Affordable Housing and Childcare Project Mitigation Monitoring and Reporting Program

Mitigation Measures	Method of Verification	Timing of Verification	Responsible for Verification	Verification of Completion	
				Date	Initial
<p>AQ-1: Dust Control Plan. Prior to Grading Permit or Building Permit issuance, the “developer” shall prepare, submit for review, and obtain approval from County Planning of both a Dust Control Plan (DCP) consistent with SCAQMD guidelines and a signed letter agreeing to include in any remediation or construction contracts/subcontracts a requirement that Project contractors adhere to the DCP requirements. The DCP shall include the following requirements:</p> <ul style="list-style-type: none"> a) Exposed soil shall be kept continually moist to reduce fugitive dust during all grading and construction activities, through application of water sprayed a minimum of three times each day during dry weather. Watering, with complete coverage of disturbed areas, shall occur at least three times a day, preferably in the mid-morning, afternoon, and after work is done for the day. b) The contractor shall ensure that traffic speeds on unpaved roads and the Project site areas are reduced to 15 miles per hour or less to reduce PM₁₀ and PM_{2.5} fugitive dust haul road emissions. c) Any portion of the site to be graded shall be pre-watered to a depth of three feet prior to the onset of grading activities. d) The contractor shall ensure that during high wind conditions (i.e., wind speeds exceeding 25 mph), areas with disturbed soil shall be watered hourly and activities on unpaved surfaces shall cease until wind speeds no longer exceed 25 mph. e) Any area that would remain undeveloped for a period of more than 30 days shall be stabilized using either chemical stabilizers and/or a desert wildflower mix hydroseed on the affected portion of the site. 	Notes on construction plans; site inspection; submittal of documentation (if applicable). The County Department of Public Works shall inspect the worksite regularly to ensure the construction mitigation measures are implemented.	Design/Preconstruction and Ongoing During Construction	County of San Bernardino		

Table 1 (cont.): Las Terrazas Mixed-Use Affordable Housing and Childcare Project Mitigation Monitoring and Reporting Program

Mitigation Measures	Method of Verification	Timing of Verification	Responsible for Verification	Verification of Completion	
				Date	Initial
<p>f) The contractor shall ensure that storage piles that are to be left in place for more than three working days shall be sprayed with a non-toxic soil binder, covered with plastic or revegetated.</p> <p>g) The contractor shall ensure that imported fill and exported excess cut shall be adequately watered prior to transport, covered during transport, and watered prior to unloading.</p> <p>h) The contractor shall ensure that storm water control systems shall be installed to prevent off-site mud deposition.</p> <p>i) All trucks hauling dirt away from the site shall be covered.</p> <p>j) The contractor shall ensure that construction vehicle tires shall be washed, prior to leaving the Project site.</p> <p>k) The contractor shall ensure that rumble plates shall be installed at construction exits from dirt driveways.</p> <p>l) The contractor shall ensure that paved access driveways and streets shall be washed and swept daily when there are visible signs of dirt track-out.</p> <p>m) Street sweeping shall be conducted daily when visible soil accumulations occur along site access roadways to remove dirt dropped or tracked-out by construction vehicles. Site access driveways and adjacent streets shall be washed daily, if there are visible signs of any dirt track-out at the conclusion of any workday and after street sweeping.</p> <p>n) The contractor shall post the phone number of the SCAQMD for complaints regarding excessive fugitive dust generation.</p>					

Table 1 (cont.): Las Terrazas Mixed-Use Affordable Housing and Childcare Project Mitigation Monitoring and Reporting Program

Mitigation Measures	Method of Verification	Timing of Verification	Responsible for Verification	Verification of Completion	
				Date	Initial
<p>AQ-2: HVAC Requirements. The buildings will be equipped with a central heating, ventilation, and air conditioning (HVAC) system that includes high efficiency filters for particulates (Minimum Efficiency Reporting Value [MERV] 16). Any windows within a 500' distance to I-10 and facing the freeway are required to be inoperable, except as required for emergency egress. The project shall include tree plantings between residential dwellings and the freeway. To ensure long-term maintenance and replacement of the MERV filters in the individual units, the following shall occur:</p> <ul style="list-style-type: none"> a) Developer, sale, and/or rental representative shall provide notification to all affected tenants/residents of the potential health risk for affected units. b) For rental units, the owner/property manager shall maintain and replace MERV filters in accordance with the manufacture's recommendations. The property owner shall keep a maintenance log schedule with proof of the filter replacements. Such log shall be available for inspection by the County of San Bernardino Building and Safety Department. The property owner shall inform renters of increased risk of exposure to diesel particulates when windows are open or the HVAC air flow is turned off. c) Outdoor active-use public recreational areas, community center, and child care center associated with development project shall be located as far north in the project site plan as possible to distance these areas from the effects on Interstate 10 and the rail line. 	Notes on construction plans; site inspection; submittal of documentation (if applicable).	Ongoing During Construction and Operation	County of San Bernardino		

Table 1 (cont.): Las Terrazas Mixed-Use Affordable Housing and Childcare Project Mitigation Monitoring and Reporting Program

Mitigation Measures	Method of Verification	Timing of Verification	Responsible for Verification	Verification of Completion	
				Date	Initial
AQ-3: Odors Reporting. Prior to site disturbance and grading activities, the contractor shall provide a cell phone number, assigned to a superintendent on the job, to members of the public residing abutting the project site along the north and east property boundaries and to members of the public residing on the east side of Cypress Avenue, between Valley Boulevard and Jackson Street for reporting odors associated with the project during site disturbance and or grading/construction activities.	Submittal of documentation	Design/ Preconstruction	County of San Bernardino		
CUL-1: In the event that buried cultural resources are discovered during remediation or construction, operations shall stop in the immediate vicinity of the find and a qualified archaeologist shall be consulted to determine whether the resource requires further study. The qualified archaeologist and shall make recommendations to the Lead Agency on the measures that shall be implemented to protect the discovered resources, including but not limited to excavation of the finds and evaluation of the finds in accordance with Section 15064.5 of the CEQA Guidelines. Potentially significant cultural resources consist of but are not limited to stone, bone, fossils, wood, or shell artifacts or features, including hearths, structural remains, or historic dumpsites. Any previously undiscovered resources found during construction within the project area should be recorded on appropriate DPR forms and evaluated for significance in terms of CEQA criteria. If the resources are determined to be unique historic resources as defined under Section 15064.5 of the CEQA Guidelines, mitigation measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds.	Notes on construction plans; site inspections; submittal of documentation (if applicable).	During Construction	County of San Bernardino		

Table 1 (cont.): Las Terrazas Mixed-Use Affordable Housing and Childcare Project Mitigation Monitoring and Reporting Program

Mitigation Measures	Method of Verification	Timing of Verification	Responsible for Verification	Verification of Completion	
				Date	Initial
No further grading shall occur in the area of the discovery until the Lead Agency approves the measures to protect these resources. Any archaeological artifacts recovered as a result of mitigation shall be donated to a qualified scientific institution approved by the Lead Agency where they would be afforded long-term preservation to allow future scientific study.					
CUL-2: If the subsurface excavations for this project are proposed to exceed depths of 10 feet below surface, a qualified County-approved paleontological monitor should be retained to observe such excavations, which may breach the older underlying sediments and have a moderate potential to produce fossilized materials. In this situation, a detailed Mitigation Monitoring Plan (MMP) or Paleontological Resource Impact Management Plan (PRIMP) should be prepared in order to set forth the observation, collection, and reporting duties of the paleontological monitor. Additional mitigation measures and procedures will be outlined in the MMP or PRIMP as needed.	Notes on construction plans; site inspections; submittal of documentation (if applicable).	During Construction	County of San Bernardino		
CUL-3: If human remains are encountered, State Health and Safety Code Section 7050.5 states that work shall stop immediately and that no further disturbance shall occur in the vicinity until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. The County Coroner must be notified of the find immediately. If the remains are determined to be prehistoric, the Coroner will notify the Native American Heritage Commission (NAHC), which will determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 24 hours of	Notes on construction plans; site inspections; submittal of documentation (if applicable).	During Construction	County of San Bernardino		

Table 1 (cont.): Las Terrazas Mixed-Use Affordable Housing and Childcare Project Mitigation Monitoring and Reporting Program

Mitigation Measures	Method of Verification	Timing of Verification	Responsible for Verification	Verification of Completion	
				Date	Initial
notification by the NAHC. The MLD may recommend scientific removal and nondestructive analysis of human remains and items associated with Native American burials. Contact the County Coroner at 175 South Lena Road, San Bernardino, CA 92415-0037 or (909) 387-2543.					
GEO-1: Once project grading plans are prepared and available, the project geotechnical consultant shall review the grading plans relative to their recommendations in the Updated Geotechnical Investigation dated September 5, 2015 prepared by Geocon West, Inc. The geotechnical consultant shall prepare a Grading Plan Review Report, which shall be submitted the County for review and approval prior to grading permit issuance.	Submittal and approval of Grading Plan Review Report.	Design/ Preconstruction	County of San Bernardino		
HAZ-1: Prior to the issuance of a grading permit, the Project Applicant shall provide documentation to the County of San Bernardino indicating DTSC approval of a plan containing all corrective measures required for the Project to remove contaminated soil. Prior to the issuance of an occupancy permit, the Applicant shall implement all feasible corrective measures and establish any ongoing measures required (i.e. monitoring) to demonstrate that on-site soils are within residential California Human Health Screening Levels for constituents of concern.	Submittal of plan and approval by DTSC. Ongoing monitoring during Operation.	Design/ Preconstruction, Prior to Operation, During Operation	County of San Bernardino; Department of Toxic Substance Control (DTSC)		
HYD-1: Prior to issuance of Grading or Building Permit, the Project shall obtain coverage under the General Permit for Discharges of Storm Water Associated with Construction Activity Construction General Permit Order 2009-0009-DWQ, which includes filing a Notice of Intent (NOI) and preparation of a Storm Water Pollution Prevention Plan (SWPPP), and shall provide evidence to the County of compliance with	Preparation and submittal of NOI, SWPPP, and Soil Erosion Pollution Prevention Plan.	Design/ Preconstruction	County of San Bernardino		

Table 1 (cont.): Las Terrazas Mixed-Use Affordable Housing and Childcare Project Mitigation Monitoring and Reporting Program

Mitigation Measures	Method of Verification	Timing of Verification	Responsible for Verification	Verification of Completion	
				Date	Initial
Development Code Section 85.11.030, which requires preparation of Soil Erosion Pollution Prevention Plan and inspection.					
NOI-1: Prior to the issuance of building permits, the Project applicant shall conduct an exterior-to-interior noise analysis based on building plans and include any building features necessary to achieve an interior noise level of 45 CNEL or less within residential spaces.	Notes on construction plans; site inspections; submittal of documentation (if applicable).	Design/ Preconstruction	County of San Bernardino		
NOI-2: Implement standard construction (and remediation) noise controls including: <ul style="list-style-type: none"> • Adhere to permissible hours of operation consistent with County requirements; • Maintain equipment in proper operating conditions, including mufflers; and • Place staging areas at farthest locations from noise sensitive receivers. 	Notes on construction plans; site inspections; submittal of documentation (if applicable).	Construction	County of San Bernardino		
NOI-3: The construction contractor shall locate equipment staging in areas that will create greatest distance between construction-related noise sources and noise sensitive receptors nearest the project site during all project construction activities.	Notes on construction plans; site inspections; submittal of documentation (if applicable). The County Department of Public Works shall inspect the worksite regularly to ensure the construction mitigation measures are implemented.	Construction	County of San Bernardino		

Table 1 (cont.): Las Terrazas Mixed-Use Affordable Housing and Childcare Project Mitigation Monitoring and Reporting Program

Mitigation Measures	Method of Verification	Timing of Verification	Responsible for Verification	Verification of Completion	
				Date	Initial
TRA-1: The Street improvement plans shall include: <ul style="list-style-type: none"> • Install a “STOP” sign and stop pavement markings at the project driveway on Valley Blvd. • Install a “STOP” sign and stop pavement markings at the project driveway on Cypress Avenue • Restripe Valley Blvd. along the project frontage to provide a two-way left turn lane and a 60 foot eastbound left turn pocket at its intersection with Cypress Avenue. 	Notes on construction plans; site inspections; submittal of documentation (if applicable).	Prior to Issuance of Building Permits, Prior to Issuance of Occupancy/Final Inspection	County of San Bernardino		
TRA-2: This project falls within the Regional Transportation Facilities Mitigation Plan for the Colton Subarea. This fee shall be paid by a cashier’s check to the Department of Public Works Business Office. The Plan fees shall be computed in accordance with the Plan fees in effect as of the date that the building plans are submitted and the building permit is applied for.	Notes on construction plans; site inspections; submittal of documentation (if applicable).	Prior to Issuance of Building Permits	County of San Bernardino		
USS-1: Prior to issuance of the Grading or Building Permit, the Project shall prepare and submit for review to the County’s Solid Waste Management Division a Construction and Demolition Solid Waste Management Plan. The Plan shall: <ul style="list-style-type: none"> • Include measures to ensure that a minimum of 50 percent of the construction waste is diverted; • Estimate the amount of tonnage to be disposed and diverted during construction; and • Provide evidence of what tonnage was actually diverted and disposed of. Disposal and/or diversion receipts or certifications shall be provided to the County, as part of the Plan. 	Notes on construction plans; site inspections; submittal of documentation (if applicable).	Design/ Preconstruction	County of San Bernardino		

EXHIBIT E

Comment Letters from Property Owners

From: Joyce Steele

Feb. 28, 2016

600 Jackson St.

Cofton, CA. 92324-1924

TO: JOSIE GONZALES,

San Bdn. Co. Super. 5th District

385 North Arrowhead Ave.

San Bdn., CA. 92415

**ATTN: ARON LIANG, Senior Planner
County of San Bdn.
Land Use Services Dept. .
385 N. Arrowhead Ave. 1st
San Bdn., CA. 92415-0187**

Dear Josie, AND ARON LIANG

My father bought this property in 1951. I have lived here off and on since then , but my parents and grand-parents ilved here until they passed away. I lived at 595 Cypress Ave. from 1978 until 1994 then moved here. My father passed in 1995. I Inheritated both pieces of property and now my son & grand children live at 595 Cypress Ave. The large lots give us so much priveacy and room so that we are not bothered by neighbors, yet we are always looking out for each other.

All of us in this area have lived here for 20 years or more. We have all seen how LOW INCOME HOUSEING AFFECTS THE NEIGHBORHOOD. The one on the northeast side of Mill St. & Rancho Ave. destroyed the little shopping center where Stater Bros. is located. Then the one across the street, on the west side of Ranch Ave. has added to the problems. This PROJECT; Las Terrazas Affordable Housing, Project No; P201500538 is so unfair to all of us hard working families, who pay our own taxes all of our lives, raise our own children without help from our GOVERNMENT WHO ISSUES MONEY TO LAZY PEOPLE THAT WON'T WORK AND SOME THAT ARE DRUGGIES WHO

**ROB THE NEIGHBORHOOD FOR THEIR HABIT AND END UP ON THE STREETS
OF THE NEIGHBORHOOD!!!!!! It's to bad you don't build housing for our
VETERANS INSTEAD. THEN WE COULD HELP THEM.**

**WHY DON'T YOU ALL, PUT YOURSELF IN OUR SHOES? HOW WOULD YOU
LIKE THIS IN YOUR BACK YARD?????**

Joyce Steele

*P.S. I don't have a computer that's
why I'm writing my complaint.*

Liang, Aron

From: Patricia Gonzales <pattig92324@gmail.com>
Sent: Monday, March 07, 2016 7:17 PM
To: Liang, Aron; Flores, Daniel (BOS); Supervisor Gonzales
Subject: Project Number: P201500538 Las Terrazas

March 7, 2016

RE: Las Terrazas Affordable Housing Project

Project Number: P201500538

SUBJ: Arguments Against Proposal

Dear Mr. Liang,

Please do not put unsuspecting people's lives unnecessarily at risk in the guise of affordable housing. Once again are poor people not deemed to be worthy of a safe place to live? Will you disclose the inherent danger of the rail road tracks and the Calnev pipeline right alongside their new residence? How can you with a clear conscious, propose to include a child care center in the midst, knowing the location is a disaster waiting to happen?

It is morally reprehensible to build more homes in this area especially supposedly to help low income families and the elderly. The property should be zoned for light industrial if at all and resold. There is plenty of land here in Colton that is better suited for this project than the site that has been proposed.

We have listed four extremely valid arguments against this proposal. The first two should stand alone on their own merit. However if you choose to ignore the evidence which is readily verifiable, then we must ask, "What really is the price of affordable housing?"

1. **Elevated Railroad Tracks:** Union Pacific railroad runs numerous trains, many carrying hazardous materials, on the tracks every single day. The noise and vibration alone will lead to tenant turnover even if they do not recognize the peril that could befall them if a derailment occurred.
2. **Calnev 14 inch High Pressure Gas Pipeline:** This is the same pipeline that ruptured and exploded on May 25, 1989 on Duffy Street in San Bernardino. The Pipeline parallels the tracks here in Colton right where you want to build.
3. **Location of Site:** Valley Blvd. and Cypress floods terribly and is closed to through traffic (including the Omintrans bus) during and a day or two after substantial rain.
4. **Elementary School:** Paul J. Rogers and US Grant are already overcrowded, where will you place the school children?

Sincerely,

Patricia and Gilroy Gonzales

Cc: SupervisorGonzales@sbcounty.gov , Aron.Liang@lus.sbcounty.gov , dflores@sbcounty.gov

March 8TH, 2016

Dear Aron Liang,
Re: Project N^o 1 P201500538
(The 112-unit affordable housing
project)

My name is Patrick Herman
Songales. I live at 395 Cypress
Ave. in Colton.

Long story as short as can be -
there is not one neighbor in this
area that would want to see this
low income structure be built.

Every single residence touching
that property line would lose
all privacy in their own back
yard. Both parents and children.
The thought of 2 and 3 story
apartment structures on the other
side of the fence is absolutely
horrible.

Hundreds of more people. The
tenants, their visitors. The
traffic passing through.
Others coming for the daycare
services (child)

AMCAL does not care about the impact it will bring to our area. There's only one thing on their mind. MONEY. Getting the contract, and getting paid.

Yosie Gonzales' only interest is generating more tax revenue.

We will accept single family homes to be built and sold.

Realistically, who in their right mind would choose to live next to an apartment complex, low-income housing, 3 stories high?

It is wrong to make us already living here suffer for the greed of others.

Sincerely,
Patrick H. Gonzales
Ph. (909) 825-1026

MR. RUBEN ROQUELAR
WROTE THIS LETTER BUT,
DIDNT HAVE TIME TO SIGN
IT

HE PAST AWAY 3-4-2016.
HIS NEIGHBORS FEEL
WE SHOULD MAIL IT IN
ON HIS BEHALF. THANK
YOU FOR YOUR CONSIDERATION
Jamaica, N.Y.

2016 MAR -9 AM 9:12

LAS TERRAZAS Affordable Housing Project

Q 4

Project No. P20L00538

?? Why Can't this county area get what Need, Not what they Don't Need??

① I Received another correspondence in Private Company Envelope
with San County stationery - Land use service department - Planning Division
who is working for who? Is this another Colony down fall!!

② Shouldn't this department be concentrating on services that this area
has been on previous election campaigns. These home owners have
been containing our yards soil and polluting the water with our septic
systems. The time that has been spent on paid headaches should have
been used to help the sewer service for this County area. It looks
like these new housing project will be getting sewer service before the
long old property owners. Is there going to be enough water available
from Terrace Water Co. At times due to repairs the water pressure is

minimum etc. ③ Why out of County Developers not County Developers
as developers come and make problems and leave mess. Look what happened
to City of Cotton downtown area. Potholes & potholes have not swallowed their
expectations they still have their busy downtowns. They know what happens
to the Developers from now. Cypress Ave cannot handle any added traffic
The number of vehicles that parents own that need to be parked in front of
their property and across the st. Reducing that leaves a space for
that traffic is school buses - taking trucks. There is still flooding at the
corner Cypress - Valley plus heavy traffic due to traffic problems on the
freeway - obtaining documents pertaining to project - table talk - cover up
on loop holes etc. Housing projects & apartments is often read in the
news media about unburying violent - status crimes with or without child care
provisions. Let the gangs stay where they are - not here

James W. Hill Sr.
Terrace Sales

3 ^{SC 1115} ~~SC 1115~~ "MR. RUBEN ADELA - RA"

680 CYPRESS AVE

1. Mr & Mrs Patricia J. Salas CYPRESS RD
2. Valero Negrete CYPRESS AVE
3. Abby Salas CYPRESS AVE
4. Greg Espinoza 575 Cypress ave
5. John Espinoza 575 Cypress Ave Cotton
6. Betty J Espinoza 575 Cypress ave
7. DAVID FURRY 595 CYPRESS AVE
8. James Whill SR 615 CYPRESS AVE
9. Ruben Ontlaga JR. 1040 W. 9th. COTTON

Liang, Aron

From: mccutchen glenn <glennmc1@yahoo.com>
Sent: Wednesday, March 09, 2016 9:30 AM
To: Liang, Aron
Subject: P201500538 Las Terrazas Affordable Housing Project

Aron Liang,

I strongly oppose this project. Partial reasons for this opposition is the negative effect on surrounding property values. The deterioration of the neighborhood, increased crime rate associated with low income housing.

This is just to mention a few concerns. I think this Project will be detrimental to the area. I also think it will over burden the local water company.

Thank You

Glenn McCutchen

909-644-6771
909-877-1072

Liang, Aron

From: Anna Jaiswal <Anna.Jaiswal@omnitrans.org>
Sent: Monday, March 21, 2016 10:53 AM
To: Liang, Aron
Subject: NOA/NOI for FONSI/MND for Las Terrazas Affordable Housing Project

Hi Aron,

Sorry, I know I missed the comment period for the Las Terrazas housing project. But I was wondering if there could possibly be any accommodation for a bus stop to be put in in front of the property on Valley? Basically it would just mean the sidewalk would need to be connected to the curb to provide for an ADA-compliant boarding area, so we could move our bus stop there. Please let me know if that could be a possibility.

Thanks so much!

Anna

Anna Jaiswal, AICP
Development Planning Manager



Connecting Our Community
1700 West Fifth Street
San Bernardino, CA 92411
www.omnitrans.org
Work: 909-379-7256
Fax: 909-379-7258

EXHIBIT F

Comment Letters from Responsible Agencies

Liang, Aron

From: CHANG OWEN <OWEN_CHANG@cjsd.net>
Sent: Wednesday, February 17, 2016 5:46 PM
To: Liang, Aron
Subject: Planning Project Notice

Assessor Parcel Number: 0274-182-34

Project Number P201500538/CF

Applicant: Darin Hansen- Vice President

Mr. Liang,

We're in receipt of the proposed land use amendment for the above reference project. While we do not have any objections to the proposed zoning change, our main concern is whether the developer fee will adequately cover the cost of providing additional school facilities to house the new students, as well as cost impact to our transportation.

Regards

Owen Chang
Colton Joint Unified School District.



Department of Public Works

Environmental & Construction • Flood Control
Operations • Solid Waste Management
Surveyor • Transportation

Gerry Newcombe
Director

March 3, 2016

County of San Bernardino
Aron Liang, Senior Planner
Land Use Services Department – Planning Division
385 N. Arrowhead Avenue, First Floor
San Bernardino, CA. 92415-0187
Aron.liang@lus.sbcounty.gov

File: 10(ENV)-4.01

**RE: CEQA/NEPA – NOTICE OF AVAILABILITY OF A MITIGATED NEGATIVE
DECLARATION/FONSI FOR THE LAS TERRAZAS PROJECT FOR SAN BERNARDINO COUNTY**

Dear Mr. Liang:

Thank you for giving the San Bernardino County Department of Public Works the opportunity to comment on the above-referenced project. We received this request on February 16, 2016 and pursuant to our review, the following comments are provided:

Traffic Division (Ed Petre, PWE III, 909-387-8239):

1. The findings in Section XVIa seemed to be based on an older version of the traffic study. This section should reflect the findings based on the Linscott Law and Greenspan report dated October 15, 2015.

Environmental Management Division (Marc Rodabaugh, Stormwater Program Manager, 909-387-8112):

1. The Environmental Assessment needs to clarify, either through a description in the Hydrology Section, or in their statement HYD-1, that they are preparing a site-specific WQMP for approval and will implement it during construction and post-construction activities.

If you have any questions, please contact the individuals who provided the specific comment, as listed above.

Sincerely,

NIDHAM ARAM ALRAYES, MSCE, PE, QSD/P
Public Works Engineer III
Environmental Management

NAA:PE:ar

BOARD OF SUPERVISORS

ROBERT A. LOVINGOOD
Vice-Chairman, First District

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Chief Executive Officer

DEPARTMENT OF TRANSPORTATION**DISTRICT 8****PLANNING (MS 725)****464 WEST 4th STREET, 6th FLOOR
SAN BERNARDINO, CA 92401-1400****PHONE (909) 383-7017****FAX (909) 383-5936****TTY 711****www.dot.ca.gov/district8**

2016 MAR 15 AM 9:20

*Serious Drought.
Help save water!*

March 9, 2016

File: 08-SBd-10-PM 21.59

Aron Liang
San Bernardino County
385 North Arrowhead Avenue
San Bernardino, CA 92415

Las Terrazas Project – Traffic Impact Analysis**Dear Mr. Liang:**

Thank you for providing the California Department of Transportation (Caltrans) the opportunity to review and comment on the Traffic Impact Analysis (TIA) for the County of San Bernardino Las Terrazas Project (Project), located on the northwest quadrant of Cypress Avenue and Valley Boulevard in the County of San Bernardino. The project proposes a 112-unit apartment complex and a day care center for up to 50 students.

As the owner and operator of the State Highway System (SHS), it is our responsibility to coordinate and consult with local jurisdictions when 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 County of San Bernardino, due to the project's potential impact to the State facilities, including Interstate 10, it is also subject to the policies and regulations that govern the SHS. We offer the following comments:

- Use the 2010 Highway Capacity Manual (HCM) rather than the 2000 HCM. The 2010 HCM is slightly different from the 2000 HCM; therefore, this usage may be subject to challenge during the environmental review process. Explain why older version of the HCM was used for calculations.
- Indicate if the truck volume is lower during regular AM/PM Peak Hours. Truck traffic does not follow regular commuter patterns. Use counts to prepare the exhibit.
- Explain the growth rate used to determine traffic volumes for 2017 and beyond, and incorporate it with the regional growth rate.

Mr. Liang
March 9, 2016
Page 2

- State if any assumptions/changes were made to update the SBTAM; including network, projects, and Socioeconomic Data.

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 and *Urban Bikeway Design Guide* at http://nacto.org/wp-content/uploads/2011/03/NACTO_UrbanBikeway_DesignGuide_LRcz.pdf).

- Coordinate with OmniTrans to locate transit stops on Valley Boulevard within walking distance of the project site and maintain transit service that is efficient to reduce Vehicle Miles Traveled and Greenhouse Gases.
- Provide safe and consistent pedestrian connections, sidewalks, along the north leg of Valley Boulevard and the west leg of Cypress Avenue along the frontage of the project site.

All comments should be addressed and the TIA should be resubmitted. These recommendations are preliminary and summarize our review of materials provided for our evaluation. Please continue to keep us informed of the project and other future updates, which could potentially impact the SHS and interfacing transportation facilities. If you have any questions or need to contact us, please do not hesitate to contact Adrinah Melkonian at (909) 806-3928 or myself at (909) 383-4557.

Sincerely,



MARK ROBERTS
Office Chief
Intergovernmental Review, Community and Regional Planning



2016 MAR 10

Department of Toxic Substances Control



Matthew Rodriguez
Secretary for
Environmental Protection

Barbara A. Lee, Director
5796 Corporate Avenue
Cypress, California 90630

Edmund G. Brown Jr.
Governor

March 10, 2016

**Mr. Aron Liang, Senior Planner
County of San Bernardino Land Use Services Department - Planning Division
385 North Arrowhead Avenue, First Floor
San Bernardino, CA 92415-0187**

**REVIEW OF DRAFT FINDING OF NO SIGNIFICANT IMPACT (FONSI) / MITIGATED
NEGATIVE DECLARATION (MND) FOR THE LAS TERRAZAS AFFORDABLE
HOUSING PROJECT – SCH # 2016021048**

Dear Mr. Liang:

The Department of Toxic Substances Control (DTSC) has reviewed the Draft FONSI/MND of February 2016 for the Las Terrazas Affordable Housing Project (Project). The Project involves the construction of 112 multi-family homes for low- and very low-income households, a Daycare Center, Community Building, and other amenities in the unincorporated portion of San Bernardino County, and near the City of Colton. The Project would require a General Plan amendment from Single Residential (SR) and Commercial General (CG) to Special Development-Residential (SDRes). It would also require a Planned Development Permit, pursuant to the County of San Bernardino Development Code requirements and standards.

As you are aware, DTSC oversees hazardous substance cleanup pursuant to the California Health and Safety Code, Division 20, Chapter 6.8. As a Responsible Agency, DTSC is submitting comments to ensure that the California Environmental Quality Act (CEQA) documentation being prepared for this project adequately addresses any remediation of hazardous substances that might be required as part of this project. The following comments are included to identify areas in the FONSI/MND that require inclusion of remedial activities that are under DTSC oversight:

- 1) Since DTSC has discretionary approval over the Removal Action Work Plan (RAW), both DTSC's discretionary authority and DTSC's role as a Responsible Agency under CEQA should be clearly identified.**
- 2) Pages 4-7 describe the project and its components. Please include the remedial activities occurring under DTSC's oversight both within the description and in Table 2, specifically the approximate 715 tons of contaminated soil that will need**

to be excavated and disposed off-site utilizing 35 trucks. This data has been obtained from the draft RAW submitted by Rincon Consulting.

- 3) Pages 19-20 detail an air quality dust control plan to comply with South Coast Air Quality Management District (SCAQMD) Rule Fugitive Dust Controls. Please include in AQ-1 that the Dust Control Plan will include remediation activities in addition to grading and construction activities.
- 4) Page 21 includes the measures needed to address Noise Abatement and Control. Please include "and remediation" in the following sentence:
Temporary noise impacts from construction and remediation on-site are expected to be controllable by standard construction noise control methods including adhering to permissible hours of operation...
- 5) Page 37 documents the CalEEMod calculations for greenhouse gas (GHG) emissions. Please ensure the worker vehicles, disposal trucks and equipment utilized for remedial activities are included in the total GHG emissions. DTSC does not anticipate the inclusion of remedial activities to significantly change the project's GHG emissions because the current amortized construction emissions are 1,407 metric tons of CO₂, which is significantly below SCAQMD's 3,000 metric ton threshold.
- 6) Pages 67-71 analyze short-term construction emissions and fugitive dust from construction activities. Please include mention of remedial activities in this analysis whenever the document also refers to construction and/or grading activities. Please ensure the worker vehicles, disposal trucks and equipment utilized for remedial activities are included in the total calculations for construction emissions and fugitive dust associated with the project's construction.
- 7) Page 69 contains Table 3, which depicts the estimated construction emissions. Please include the worker vehicles, disposal trucks and equipment utilized for remedial activities in these calculations.
- 8) Page 94 analyzes the GHG emissions for the construction phase of the project. Please see 4), above for DTSC's recommendation.
- 9) Pages 96-97 provide environmental analysis for the Hazards and Hazardous Materials section of the Initial Study. Please include the following in the Substantiation paragraph:
The project site was in agricultural use from prior to 1930 until at least 1938, but no later than 1953. Soil sampling indicates the presence of hazardous substances in soil, specifically Poly-

Mr. Aron Liang
March 10, 2016
Page 3

Chlorinated Biphenyls (PCBs) and Organo-Chlorine Pesticides (OCPs). In order to address these impacts, AMCAL Multi-Housing voluntarily entered into an agreement with DTSC. AMCAL Housing will excavate the impacted soil for transportation and disposal at a licensed off-site disposal facility in accordance with a RAW approved by DTSC. The site will be remediated to meet United States Environmental Protection Agency Regional Screening Levels for residential soils and DTSC Human and Ecological Risk Office Human Health Risk Assessment Note 3.

- 10) Pages 107 and 111 explain why a temporary construction noise analysis has not been provided. Please include "and remediation" within the following sentence on page 107:

For this reason, a detailed analysis of temporary construction and remediation noise has not been provided.

Please include "and remediation" within the following sentence on page 111:

Temporary noise impacts from construction and remediation on-site are expected to be controllable by standard construction noise control methods including adhering to permissible hours of operation, maintaining equipment in proper operating condition, and placing staging areas at farthest locations from noise sensitive receivers.

If you have any questions, please call me at (714) 484-5471. Thank you in advance for your consideration of our comments.

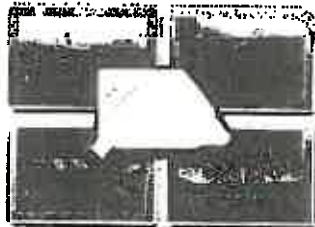
Sincerely,



Poonam Acharya
Project Manager
Brownfields and Environmental Restoration Program – Cypress

cc: Ms. Alexandra Borack, Associate Environmental Planner (via e-mail)
DTSC Office of Planning & Environmental Analysis – Sacramento
Alexandra.Borack@dtsc.ca.gov

Mr. Emad Yemut, Unit Chief (via e-mail)
DTSC Cleanup Program – Cypress Office
Emad.yemut@dtsc.ca.gov



LAFCO

March 10, 2016

**Aron Liang, Senior Planner
County of San Bernardino
Land Use Services Department – Planning Division
385 North Arrowhead Avenue
San Bernardino, CA 92415-0187**

Dear Mr. Liang:

**RE: NOA/NOI to Adopt a Finding of No Significant Impact
and Mitigated Negative Declaration for the Las
Terrazas Affordable Housing Project**

**The Local Agency Formation Commission (LAFCO) received the
Notice of Availability (NOA) / Notice of Intent (NOI) to adopt a
Finding of No Significant Impact (FONSI) and Mitigated Negative
Declaration (MND) for the Las Terrazas Affordable Housing
Apartments and Childcare Project.**

**LAFCO will be acting as a responsible agency under CEQA for the
project since it will require LAFCO approval of an out-of-agency
service contract between the City and the property owner/developer
for water and sewer service. This is required since the project is
located outside the boundaries of the City. In order to properly
evaluate these services to be provided by contract, LAFCO has the
following comments related to the County's environmental
assessment prepared for the project:**

- **Table 2: Project Components, Page 7 and 8.**

**The description for the sewer component is not entirely
accurate. Although the City of Colton's Public Works
Department may be the department that manages the city's
wastewater collection and treatment system, it is the City of
Colton who provides the service. In addition, the last
sentence of the description may be construed as though the
service has already been provided.**

**The same is true for the water description under Other
Utilities. Again, the City of Colton is the water service
provider, not its Public Works Department.**

- Exhibit 2 – Local Vicinity Map, Page 13.

The map is flawed. The outline of the project site does not show the entirety of the project area.

Environmental Assessment Checklist

- Wastewater, pages 44 and 45.

The description identifies that the project will require a "will-serve" documentation from the City. However, this statement should be augmented with the need for an out-of-agency service agreement that requires LAFCO review and approval prior to extending wastewater service to the project. LAFCO approval is required before a will-serve or other contractual relationship can be finalized.

- Water Supply, pages 47 and 48.

Again, the description should clearly identify that water service will be provided by the City through an out-of-agency service agreement that requires LAFCO review and approval prior to extending water service to the project. It should also clearly identify that even though the project area is within the water service area of Terrace Water Company, the water company has provided its consent (through agreement with the property owner/developer) for the City to provide water service to the project site.

It should be noted that there are statements in the source/documentation description that refers to water supply sources and capacity related to "FWC". These need to be deleted or corrected.

- Fire, page 49.

The project site is in the unincorporated area of the San Bernardino Valley region; therefore, the area is within the boundaries of the San Bernardino County Fire Protection District and its Valley Service Zone. However, it LAFCO's understanding that the area is currently being served, by contract, by the City of Colton's Fire Department. Please verify this information.

- Water Resources, page 52.

Again, the City of Colton is the entity that provides water service, not its Public Utilities Department.

Thank you for allowing LAFCO to provide comments to the NOA/NOI. If you have any questions concerning the information outlined above, please do not hesitate to contact me or Samuel Martinez, Assistant Executive Officer, at (909) 388-0480. Please

maintain LAFCO on your distribution list to receive further information related to this process. We look forward to working with the County and the City of Colton on the future processing of this project.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kathleen Rollings-McDonald', written over a horizontal line.

KATHLEEN ROLLINGS-McDONALD
Executive Officer

cc: Tom Dodson, Tom Dodson and Associates, LAFCO Environmental Consultant



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

SENT VIA E-MAIL AND USPS:

Aron.Liang@lus.sbcounty.gov

March 10, 2016

Aron Liang, Senior Planner
San Bernardino County
Land Use Services Department – Planning Division
385 North Arrowhead Avenue, First Floor
San Bernardino, CA 92415-0187

Draft Finding of No Significant Impact (FONSI) and Draft Mitigated Negative Declaration (Draft MND) for the Proposed Las Terrazas Affordable Housing Apartments and Childcare Center Project
(Project No. P201500538)

The South Coast Air Quality Management District (SCAQMD) staff appreciates the opportunity to comment on the above-mentioned document. The following comments are meant as guidance for the Lead Agency and should be incorporated into the Final CEQA document.

According to the project description, the Lead Agency proposes to construct 112 multi-family apartment units, including parking, at the northwest corner of the intersection of North Cypress Avenue and West Valley Boulevard, in the sphere of influence of the City of Colton in San Bernardino County. The project will also include a 2,000-square foot community building and development of a 3,000 square foot child care center to service up to 50 children in the neighborhood. The three parcels are currently vacant as the house that was located on the third parcel has been demolished. The project construction is expected to be completed in one year by 2017.

The SCAQMD staff has concerns that the proposed mitigation included in the Draft MND will not reduce the estimated significant cancer risk from toxic air contaminant sources to below levels of significance. In the Health Risk Assessment (HRA), the Lead Agency estimated cancer risk at 67.9 in one million, which exceeds the SCAQMD recommended threshold of significance of 10 in one million cases¹. The Lead Agency has proposed mitigation to reduce the significant cancer risks but the proposed mitigation would not reduce the risk from toxic air contaminants since the proposed mitigation is designed to reduce impacts from particulate matter created by sources of dust, not toxic gases generated from combustion or other toxic air contaminant sources. Further, the SCAQMD staff reiterates the advisory recommendations from the California Air Resources Board (CARB) that includes a buffer distance between sensitive receptors and different sources of TAC. Further details are included in the attachment.

¹ Maximum Incremental Cancer Risk (MICR).

Mr. Aron Liang,
Senior Planner

2

March 10, 2016

Pursuant to Public Resources Code Section 21092.5, SCAQMD staff requests that the Lead Agency provide the SCAQMD with written responses to all comments contained herein prior to the adoption of the Final FONSI/MND. Further, staff is available to work with the Lead Agency to address these issues and any other questions that may arise. Please contact Sam Wang, Air Quality Specialist – CEQA Section, at (909) 396-2649, if you have any questions regarding these comments.

Sincerely,

Jillian Wong

Jillian Wong, Ph.D.
Program Supervisor
Planning, Rule Development & Area Sources

Attachment

JW:GM:SW

SBC160211-08
Control Number

CARB Guidance for Siting Sensitive Receptors Near Freeways

1. In the Draft MND, the proposed sensitive receptors (residences, children at the child care center, etc.) will be sited just north of the I-10 Freeway, a freight line operating on the Union Pacific Rail Road (UPRR) line, and the CalPortland Quarry and cement facility. Based on an aerial map inspection, project residents and the day care center would currently be located less than 500 feet of the truck traffic traveling on the I-10 Freeway and the train traffic operating on the UPRR tracks. The Lead Agency has proposed mitigation (MM AQ-2) that would move the child care center as far north in the project site plan as possible to minimize the freeway and rail impacts but the site plan included in the Draft MND shows the child care center sited in the southern area of the project site, closest to the I-10 Freeway. Because of the close proximity to the existing freeway and rail line, the project sensitive receptors (based on the current site plan in the Draft MND) would be exposed to diesel particulate matter (DPM), which the California Air Resources Board (CARB) has determined to be carcinogenic.

Numerous health studies have demonstrated the potential adverse health effects of living near highly travelled roadways and major rail yards. As a result of these studies, in 2005 the California Air Resources Board (CARB) recommended avoiding siting housing within 500 feet of a freeway in their Land Use Handbook². Additional research has continued to support that the near roadway environment contains elevated levels of many pollutants that adversely affect human health, including some pollutants that are unregulated (e.g., ultrafine particles) and whose potential health effects are still emerging³. While the health science behind recommendations against placing new residences close to freeways is clear, the SCAQMD staff recognizes the many factors lead agencies must consider when siting new housing. Further, many mitigation measures have been included in the CEQA document and proposed for other projects to reduce exposure, including building filtration systems, placing the residential units furthest from the freeway, making any windows facing the freeway inoperable, building sound walls, planting vegetation barriers, etc. However, because of the potential health risks involved, it is critical that any proposed mitigation must be carefully evaluated prior to determining if those health risks would be brought below recognized significance thresholds. Based on the proposed project, the SCAQMD reiterates the CARB advisory recommendations that the final site plan in the Final MND include the 500 foot buffer between sensitive receptors (including the siting of the child care center as mentioned in MM AQ-2) in order to reduce the adverse health impacts from and the above-mentioned sources of Toxic Air Contaminant (TAC).

² California Air Resources Board. April 2005. "Air Quality and Land Use Handbook: A Community Health Perspective." Accessed at: <http://www.arb.ca.gov/ch/landuse.htm>

³ See Chapter 9 of the 2012 AQMP for further information at: <http://www.sqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2012-air-quality-management-plan/final-2012-aqmp-february-2013/chapter-9-final-2012.pdf>.

Limits to the Effectiveness of Filters as Mitigation

2. In the Health Risk Assessment (HRA), the Lead Agency estimated residential cancer risk at 67.9 in one million, which exceeds the SCAQMD recommended threshold of significance of 10 in one million cases⁴. With mitigation, the Lead Agency has determined that risk from TAC to future residents would be reduced to less than the SCAQMD 10 in one million threshold, but the mitigated risk and supporting documentation is not included in the Draft MND. Because the proposed central heating, ventilation, and air conditioning (HVAC) and Minimum Efficiency Reporting Value (MERV) MERV 16 filters reduce particulate impacts but do not reduce impacts from TAC, the Lead Agency has not provided substantial evidence to support its determination that risk from toxic air contaminants are less than significant. This is particularly important since children and residents that are active outdoors over a period of time will be exposed daily to unmitigated particulates and TAC from nearby particulate and TAC sources. Therefore, risk from the TAC sources remains a significant impact and active, outdoor sensitive receptors are not protected from adverse air quality emission sources.

The SCAQMD staff recognizes that the Lead Agency has proposed mitigation measures to reduce significant cancer risk. MM AQ-2 includes the installation of HVAC systems in buildings that will utilize high efficiency filters for particulates and the relocation of outdoor active-use public recreation areas, the community center and the child care center as far north as possible, which would call for revision to the site plan included in the Draft MND⁵. It is unclear though if HVAC and MERV 16 or higher filters will be installed in the day care center building to help reduce filter particulate impacts considering the amount of time each day and the period of time (number of days per week, month, year, etc.) the children would spend inside the child care center building engaging in different activities. The Lead Agency is reminded that although mitigation has been proposed to address the adverse health impacts from the before-mentioned sources, the limitations of the proposed HVAC systems with the enhanced filtration (high efficiency filters for particulates should be considered on the housing residents or other sensitive receptors. For example, these filters have no ability to filter out any toxic gases from vehicle exhaust. The presumed effectiveness and feasibility of this mitigation should therefore be evaluated in more detail prior to assuming that it will sufficiently alleviate near roadway and rail exposures. In addition, in a study that SCAQMD conducted to investigate filters⁶ similar to those proposed for this project, costs were expected to range from \$120 to \$240 per year to replace each filter. Next, because the filters would not have any effectiveness unless the HVAC system is running, there may be increased energy

⁴ Maximum Incremental Cancer Risk (MICR).

⁵ Attachment A: Project Plans and Information, Site Plan Study – Scheme 24b.

⁶ <http://www.scaqmd.gov/docs/default-source/mae/handbook/mae-pilotstudyfinalreport.pdf?sfvrsn=0>. This study evaluated filters rated MERV 13+ while the proposed mitigation calls for less effective MERV 12 or better filters.

costs to the resident. The proposed mitigation assumes that the filters operate 100 percent of the time while residents are indoors.

Health Risk Assessment

3. The AERMOD, HRA, and Hot Spots Analysis and Reporting Program (HARP) HARP-2 modeling input and output files were not included in the appendices. For the Final MND and for future CEQA documents, please send with the draft CEQA document all appendices and or technical documents related to the air quality and greenhouse gas analyses and electronic versions of all air quality modeling and health risk assessment files. These include original emission calculation spreadsheets and modeling files (not Adobe PDF files).

Without the electronic files, the SCAQMD staff was unable to determine where the receptors were placed in the model, e.g., on the property lines, the middle of the site, etc. Therefore, the risk to the sensitive receptors could not be verified.

4. The Draft MND estimated the cancer risks to the outdoor play areas of the school to be 3.67 in one million. This was based on an assumption of "recreational" exposure of four hours per day and 250 days per year. The SCAQMD staff does not recommend the use of different exposure parameters for recreation. The students at school likely will live in areas near the school and their exposure to TACs is not limited only to those hours. Therefore, the SCAQMD staff recommends revising the HRA to use 30 years, 350 days per year exposure duration to estimate the health risks to residents.

Compliance With SCAQMD Rule 1166

5. Under Existing Condition and Trends on page nine, the Lead Agency cites past uses on the property that included the use of pesticides and insecticides that has led to the preparation of a Draft Remedial Action Workplan (RAW) that will provide removal and proper disposal of the organochlorine pesticides (OCP) and polychlorinated biphenyls (PCB) impacted soils. The Draft RAW will include regulatory oversight by the California Department of Toxic Substances Control (DTSC) to remove the impacted soils from the site.

Should the Lead Agency encounter hydrocarbons during soil disturbance activities, the contaminated sites would be subject to SCAQMD Rule 1166 – Volatile Organic Compound Emissions from Decontamination of Soil and that compliance should be referenced in the Final MND.



EDMUND G. BROWN JR.
GOVERNOR

STATE OF CALIFORNIA
GOVERNOR'S OFFICE *of* PLANNING AND RESEARCH
STATE CLEARINGHOUSE AND PLANNING UNIT



KEL ALLEN
DIRECTOR

March 11, 2016

Aron Liang
San Bernardino County
385 N. Arrowhead Avenue, 1st Floor
San Bernardino, CA 92415-0187

Subject: Las Terrazas Mixed - Use Affordable Housing Apartments and Childcare Project
SCH#: 2016021048

Dear Aron Liang:

The State Clearinghouse submitted the above named Mitigated Negative Declaration to selected state agencies for review. The review period closed on March 10, 2016, and no state agencies submitted comments by that date. This letter acknowledges that you have complied with the State Clearinghouse review requirements for draft environmental documents, pursuant to the California Environmental Quality Act.

Please call the State Clearinghouse at (916) 445-0613 if you have any questions regarding the environmental review process. If you have a question about the above-named project, please refer to the ten-digit State Clearinghouse number when contacting this office.

Sincerely,

Scott Morgan
Director, State Clearinghouse

1400 10th Street P.O. Box 3044 Sacramento, California 95812-3044
(916) 445-0613 FAX (916) 323-3018 www.opr.ca.gov

**Document Details Report
State Clearinghouse Data Base**

SCH# 2016021048
Project Title Las Terrazas Mixed - Use Affordable Housing Apartments and Childcare Project.
Lead Agency San Bernardino County

Type MND Mitigated Negative Declaration
Description The Las Terrazas Mixed Use Affordable Housing Apartments and Childcare Project (the Project) involves the construction of 112 multi-family homes for low and very low income households in the unincorporated portion of San Bernardino County, and near the City of Colton. The Project also includes the construction of a single-story Daycare Center and a Community Building. The daycare facilities would include one office, two classrooms, storage areas, and a teacher lounge/kitchen. The Project would require a General Plan amendment from Single Residential (RS) and Commercial General (CG) to Special Development-Residential (SD-Res). It would also require a Planned Development Permit, pursuant to County of San Bernardino Development Code requirements and standards.

Lead Agency Contact

Name	Aron Liang	
Agency	San Bernardino County	
Phone	909-387-0235	Fax
email		
Address	385 N. Arrowhead Avenue, 1st Floor	
City	San Bernardino	State CA Zip 92415-0187

Project Location

County	San Bernardino		
City	Colton		
Region			
Lat/Long	34° 4' 9.784" N / 117° 20' 32.7" W		
Cross Streets	Valley Blvd. and Cypress Avenue		
Parcel No.	0274-182-94, -43, -48		
Township	1S	Range 4W	Section 19
			Base Topo

Proximity to:

Highways	I-10
Airports	
Railways	UPRR
Waterways	Santa Ana River
Schools	Colton HS
Land Use	Single Residential (RS) and Commercial General (CG)

Project Issues Aesthetic/Visual; Agricultural Land; Air Quality; Archaeologic/Historic; Biological Resources; Drainage/Absorption; Economics/Jobs; Fiscal Impacts; Flood Plain/Flooding; Geologic/Seismic; Minerals; Noise; Population/Housing Balance; Public Services; Recreation/Parks; Schools/Universities; Sewer Capacity; Soil Erosion/Compaction/Grading; Solid Waste; Toxic/Hazardous; Traffic/Circulation; Vegetation; Water Quality; Water Supply; Landuse; Cumulative Effects

Reviewing Agencies Resource Agency; Department of Fish and Wildlife, Region 6; Department of Parks and Recreation; Department of Water Resources; California Highway Patrol; Caltrans, District 8; Department of Housing and Community Development; Air Resources Board; Native American Heritage Commission; Public Utilities Commission

Date Received	02/10/2016	Start of Review	02/10/2016	End of Review	03/10/2016
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Note: Blanks in data fields result from insufficient information provided by lead agency.

EXHIBIT G

Responses to Comments

**Response to Comments
on the
Environmental Assessment/Initial Study**

(HUD recommended format per
24 CFR 58.36, revised 1/99)

Prepared for:
**U.S. Department of Housing
and Urban Development**
California State Office of Community Development
Environmental Branch

Project Identification:
Las Terrazas Mixed-Use Affordable Housing and Childcare Project
275 and 291 Cypress Avenue
Colton, CA 92324

Responsible Entity:
County of San Bernardino
County of San Bernardino Economic Development Agency
385 North Arrowhead Ave, 3rd Floor
San Bernardino, CA 92415

April 2016

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SECTION 1: INTRODUCTION AND BACKGROUND

On February 8, 2016, the County of San Bernardino (County) circulated an Environmental Study/Initial Study (EA/IS) for the Las Terrazas Mixed-Use Affordable Housing and Childcare Project. The County received various comments during the public review period (February 9, 2016 to March 9, 2016). California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) regulations do not require a lead agency to prepare written responses to comments received on an EA/IS; however, the County has reviewed the comments received and prepared the following responses in an effort to provide full information to the decision-makers and the public. In addition, this document includes responses to late comments received beyond the public review period.

The project involves the construction of 112 multi-family homes for low- and very low-income households in the unincorporated portion of San Bernardino County and near the City of Colton. The project would require a General Plan amendment from Single Residential (RS) and Commercial General (CG) to Special Development-Residential (SD-Res). It would also require a Planned Development Permit, pursuant to County of San Bernardino Development Code requirements and standards. The Planned Development Permit would allow flexibility in the application of development standards. The project applicant has requested certain developer incentives based on the affordable housing use, further detailed below. The 5.92-acre site currently consists of three separate parcels and the lots would be merged into one large parcel. The proposed project consists of the following discretionary requests:

- 1) **General Plan Amendment:** The project would require a General Plan amendment from Single Residential (RS) and Commercial General (CG) to Special Development-Residential (SD-Res). For the 5.92 acres project site, the General Plan Amendment would specify an overall site-specific density of 18.9 dwelling units per acre (DU/Acre) for the proposed 112 multi-family housing unit complex, and a site specific building height for the two and three-story daycare and housing structures.
- 2) **Rezone:** Rezone from General Commercial and Single Residential zoning to Special Development Residential (SD-Res). The proposed multi-family residential development is not permitted within the general commercial or single residential zones. This includes a lot merger to combine the three parcels into one parcel. The proposed zoning would be in accordance with surrounding residential uses. Furthermore, the County's Development Review Committee would review the application and ensure that the project conforms to the proposed zoning and intent of the development code.
- 3) **Planned Development Permit:** The project requires a Planned Development Permit pursuant to County of San Bernardino Development Code requirements and standards. The Planned Development Permit would allow flexibility in the application of development standards.

The County received a total of 13 comment letters in response to circulation of the EA/IS during the official comment period from the following agencies and individuals:

- Colton Joint Unified School District
- San Bernardino County Department of Public Works
- Department of Transportation
- Department of Toxic Substances Control
- LAFCO
- South Coast Air Quality Management District
- State Clearinghouse
- Joyce Steele
- Patricia and Gilroy Gonzales
- Patrick Herman Gonzales
- Ruben Aguilar
- Glenn McCutchen

One additional comment letter was received after the close of the official comment period from OmniTrans. Each individual comment within each letter has been assigned a code (DTSC-1, DTSC-2, DTSC-3, etc.) to cross-reference comments with responses. The comment letters and/or text of correspondence are reprinted in Attachment A to this letter. Responses to Comments are provided in Section 2.0 and Changes to the Environmental Assessment/Initial Study are provided in Section 3.0 of this document.

SECTION 2: RESPONSE TO COMMENTS

Colton Joint Unified School District

Response to Comment CJUSD-1

The commenter states they have received the EA/IS and have recognized the proposed land use amendment for the project. The agency does not have any objections to the proposed zoning change; however, the agency is concerned with whether the developer fees will adequately cover the cost of providing additional school facilities to house the new students.

The Environmental Assessment discusses the impact that the project would have on the Colton Joint Unified School District (CJUSD). It is estimated that 84 additional students could be generated by the project using population statistics within the San Bernardino County Housing Element. This increase would be a relatively negligible increase in student enrollment within CJUSD.

In addition, the project is subject to payment of Development Fees (\$3.20 per sf of residential development), which would reduce any potential impacts to school services and facilities, in accordance with the California Government Code Section 65996, which provides that payment of school impact fees is considered full and complete mitigation for impacts to school facilities. These fees are determined to adequately cover the cost of the additional school facilities to house the students.

Department of Public Works

Response to Comment DPW-1

The commenter provides introductory remarks to open the letter; no response is warranted.

Response to Comment DPW-2

The commenter states that the findings in the Transportation/Traffic section are based on an older version of the traffic study, and that this section should reflect the findings based on the Linscott Law and Greenspan report dated October 15, 2015. This comment has been noted and changes will be made as shown in Section 3.0 of this document.

Response to Comment DPW-3

The commenter states that the Environmental Assessment should include a statement about the preparation of a site-specific WQMP for approval that will be implemented during construction and post-construction activities. This comment has been noted, and changes will be made in Section 3.0 of this document to reflect that there will be preparation of a Water Quality Management Plan, which will be implemented during construction and post-construction activities. Additionally, discussion of the WQMP is located on page 47 of the Environmental Assessment Checklist.

California Department of Transportation

Response to Comment DOT-1

The California Department of Transportation recognizes the opportunity to review and comment on the Traffic Impact Analysis (TIA) for the proposed project. The agency states it is their responsibility, as the owner and operator of the State Highway System, to consult with local jurisdictions when development may affect their facilities. Because of the project's impacts on Interstate 10, the project is subject to policies and regulations that govern the State Highway System. These comments are noted and no response is warranted.

Response to Comment DOT-2

The commenter states that the 2010 Highway Capacity Manual (HCM) should be used rather than the 2000 HCM. There are slight differences between the two; therefore, the usage of an older version may be subject to challenge during the environmental review process.

The comment is acknowledged. It should be noted that the traffic study area analyzed in the Traffic Impact Analysis Report does not include any Caltrans-controlled study intersections. During the traffic study scoping process with County of San Bernardino staff, it was determined that the four key study intersections would be analyzed utilizing the HCM 2000 methodology to remain consistent with the prior traffic studies prepared for the project site. The use of the HCM 2010 methodology would result in results similar to those of the HCM 2000 methodology, and, therefore, the findings of the Traffic Impact Analysis Report would remain unchanged.

Response to Comment DOT-3

The commenter requests that truck volume during AM/PM Peak Hours be mentioned within the Transportation/Traffic section. The commenter requests the use of counts as exhibits for Truck Volume.

As stated in the Project Description, the proposed project will consist of a 112-unit apartment complex and a day care center for up to 50 students. The only truck traffic associated with the proposed project will be delivery trucks (UPS, FedEx, etc.) and trash trucks. It is recognized that truck traffic does not follow regular commuter patterns; however, the AM peak-hour and PM peak-hour level of service analyses account for commuter peak-hour truck traffic, since the traffic counts conducted at the four key study intersections consisted of both passenger vehicles and trucks.

Response to Comment DOT-4

The commenter requests that the EA/IS explain the growth rate used to determine traffic volumes for 2017 and beyond, and to incorporate this explanation with the regional growth rate.

As directed by County of San Bernardino staff during the traffic study scoping process, Year 2018 peak-hour traffic forecasts without the proposed project were projected by increasing existing traffic volumes by an annual growth rate of 2.0 percent. Further, as directed by County of San Bernardino staff during the traffic study scoping process, long-term (Year 2035) peak-hour traffic forecasts

without the proposed project were projected by increasing existing traffic volumes by a compounded annual growth rate of 1.0 percent.

Response to Comment DOT-5

The commenter requests that the EA/IS state if any assumptions/changes were made to update the San Bernardino Transportation Analysis Model (SBTAM), including network, projects, and Socioeconomic Data.

The SBTAM was not utilized to develop long-term (Year 2035) peak-hour traffic forecasts. As directed by County of San Bernardino staff during the traffic study scoping process, long-term (Year 2035) peak-hour traffic forecasts without the proposed project were projected by increasing existing traffic volumes by a compounded annual growth rate of 1.0 percent.

Response to Comment DOT-6

The Department of Transportation states that Caltrans is committed to providing a safe transportation system for all users. Caltrans encourages the development of a safe, sustainable, and integrated system to enhance California's economy and livability. This includes creating a pedestrian/bike-friendly environment to minimize traffic congestion in the surrounding areas. Therefore, the commenter recommends coordinating with OmniTrans to locate a transit stop on Valley Boulevard within walking distance of the proposed project. The commenter also outlines pedestrian connections and crosswalks along the frontage of the project site area.

The comment is acknowledged. The proposed project will construct a bus pad and bus shelter on the northwest corner of the intersection of Valley Boulevard and Cypress Avenue to serve OmniTrans Route 1. The proposed project will also construct sidewalks along the north leg of Valley Boulevard and Cypress Avenue in accordance with County of San Bernardino requirements.

The Lead Agency is coordinating with OmniTrans to create a public transit stop in front of the project site on Valley Boulevard. This addresses the concern that is outlined in this comment; therefore, no further response is warranted.

Response to Comment DOT-7

The commenter asks that the comments mentioned above be addressed and the TIA be resubmitted. The Department of Transportation asks that it be informed of the project and future updates. The comment is noted and no response is warranted.

Department of Toxic Substances Control

Response to Comment DTSC-1

The commenter states that the Department of Toxic Substances Control has reviewed the Draft FONSI/MND for the proposed project. The commenter introduces the description of the proposal and discusses the required General Plan Amendments and rezoning that would take place. The comment is noted and no response is warranted.

Response to Comment DTSC-2

The DTSC declares that it is submitting comments to ensure that the CEQA documentation being prepared adequately addresses any remediation of hazardous substances. The following comments are provided to identify areas in the FONSI/MND that require inclusion of remedial activities that are under DTSC oversight. The comment is noted and no response is warranted.

Response to Comment DTSC-3

The commenter states that since the DTSC has discretionary approval over the Remedial Action Work Plan, both the DTSC's discretionary authority and role as a Responsible Agency under CEQA should be clearly identified.

The Toxic or Hazardous Substances and Radioactive Materials section of the Environmental Assessment states that the DTSC has regulatory oversight over the project site and that the Remedial Action Work Plan is under review of the DTSC. This establishes the DTSC as a discretionary authority and Responsible Agency under CEQA. Discussion of DTSC's role is also discussed in the Existing Conditions and Trends section of the document.

Response to Comment DTSC-4 through DTSC-9

The commenter states that multiple locations within the document should include reference to remedial activities occurring under DTSC's oversight. The commenter requests that there be insertions of specific phrases and paragraphs within the document to reflect the remedial activities involving construction activities and equipment. These changes are reflected in Section 3.0 of this document. Additionally, the Air Quality and Greenhouse Gas Assessment prepared for the project was revised in response to comments provided by the AQMD and DTSC. Please refer to Attachment B and additional discussion below.

The remediation activities are anticipated to require approximately 2 days to complete. For conservative purposes, it was assumed that 7 days would be required. The remediation would require one backhoe, one front-end loader, and 35 haul trucks. It was assumed that four employees would be required on site to carry out the remediation work, and that each truck would generate one worker trip. The remediation project would generate an additional 5 metric tons of greenhouse gas (GHG) emissions. The remediation activities were added to the text and the total GHG emissions. In addition, remediation activities were included in Table 5 for criteria pollutant emissions.

Response to Comment DTSC-10

The commenter provides contact information if there are any questions for the DTSC. No further response is warranted.

Local Agency Formation Commission (LAFCO)

Response to Comment LAFCO-1

LAFCO states that it received the NOA/NOI for the proposed project. LAFCO states it will be acting as a responsible agency under CEQA for the project, since it will require LAFCO approval of an out-of-agency service contract between the City and the property owner/developer for water and sewer service. LAFCO has provided the below comments for the project. This comment is noted and no response is warranted.

Response to Comment LAFCO-2 and LAFCO-8

The commenter states that the description for the sewer component is not accurate in that the City of Colton is the service provider for wastewater collection and treatment. This comment will be addressed in Section 3.0 by providing clarification on the provision of sewer service.

Response to Comment LAFCO-3

The commenter states the Local Vicinity Map (Exhibit 2) on page 13 is flawed because it does not show the entirety of the project area. An accurate Assessor's Parcel Number was provided, and technical reports within the attachments included descriptions and exhibits of the site boundary. An accurate version of the Exhibit 2: Local Vicinity Map has been included herein as Attachment C. No further response is warranted.

Response to Comment LAFCO-4 and LAFCO-5

LAFCO states that the wastewater and water supply descriptions identify that the project requires a "will-serve" documentation from the City. The commenter claims that the document should be augmented to state that LAFCO approval is required before a will-serve or other contractual relationship can be finalized. The comment also requests changes to language in the document regarding water supply sources and capacity. These comments will be addressed in Section 3.0 of this document.

Response to Comment LAFCO-6

The commenter states that source/documentation description should correct or delete reference to "FWC." This is an editorial error. FWC should be TWC, an acronym for the Terrace Water Company. This comment is addressed in Section 3.0 of this document.

Response to Comment LAFCO-7

The commenter states that even though the project site is in an unincorporated area of San Bernardino County and within the boundaries of the San Bernardino County Fire Protection District, it is LAFCO's understanding that the project site would be served by the City of Colton's Fire Department. Comment has been noted and no further response is warranted.

Response to Comment LAFCO-8

The commenter reiterates that the City of Colton is the entity that provides water service, not its Public Utilities Department. This comment will be addressed with clarifications in Section 3.0 of this document.

Response to Comment LAFCO-9

LAFCO thanks the Lead Agency for the opportunity to provide comments and states it is available for any questions the Lead Agency might have. No response is warranted.

South Coast Air Quality Management District

Response to Comment AQMD-1 and AQMD-2

The commenter provides introductory remarks to open the letter and provides a summary of the Project Description. No response is necessary.

Response to Comment AQMD-3

The commenter expresses concerns that the proposed mitigation included within the MND would not reduce the estimated cancer risk from toxic air contaminant sources to below levels of significance. Please refer to Response to Comment AQMD-5 and Response to Comment AQMD-6, below.

Response to Comment AQMD-4

The commenter requests a written response to the comments provided, and lists contact information for an SCAQMD air quality scientist should further questions arise. The comment is noted.

Response to Comment AQMD-5

The commenter expresses concerns regarding the proximity of the project to the I-10 freeway, Union Pacific Railroad Line, and the Cal Portland Quarry and cement facility, and recommends that a 500-foot buffer be utilized between sensitive receptors and the freeway.

The applicant is aware of the guidance contained within the ARB's *Air Quality and Land Use Handbook*. However, as stated in the Handbook, "These recommendations are advisory and should not be interpreted as defined 'buffer zones.'"

Mitigation Measure MM AQ-2 was proposed in the EA/IS containing a component that encouraged the Applicant to site the childcare center and outdoor areas as far north as possible. This is a standard suggestion for health risk related mitigation. The current configuration does locate these uses as far north as possible, due to land use restraints and traffic concerns. Although the childcare facility would still be located on the southern half of the site, the building would utilize the Minimum Efficiency Reporting Value (MERV) 16 filters described below and would include a sound wall around the outdoor areas, thereby reducing exposure both indoors and outdoors for employees and students.

There currently is no SCAQMD toxic air contaminant (TAC) threshold for “existing” cancer risk to sensitive receptors. The SCAQMD TAC threshold of 10 in one million is defined as the “maximum incremental cancer risk.” Because the project does not involve the construction of sources that would significantly contribute to “incremental cancer risk,” the application of the 10 in one million threshold is not well applied in this case. Other air quality districts have refined methodology and thresholds for evaluation of the health risks posed by heavily traveled roadways and freeways to adjacent receptors. For example, the Bay Area Air Quality Management District has a “Roadway Screening Analysis” procedure and thresholds based on annual average daily traffic (AADT) and distance from the source.¹ The San Luis Obispo Air Pollution Control District has a requirement that new land use projects that will place sensitive receptors (e.g., residential units) close to existing toxics sources (e.g., freeway) must not exceed the CEQA health risk threshold of 89 in a million.

However, this type of threshold has yet to be established within the SCAQMD. Therefore, additional analysis is provided to substantiate the understanding that proposed mitigation would reduce potential impacts to levels below SCAQMD adopted thresholds. Thus, utilizing the current SCAQMD thresholds, mitigation measures would adequately reduce impacts to less than significant levels, as demonstrated in the following paragraphs.

The commenter discusses the health risks associated with sensitive land uses located near freeways but also acknowledges that Lead Agencies must consider many factors when siting new housing. The commenter states that mitigation should be carefully evaluated prior to determining if those health risks would be brought below recognized significant thresholds. Mitigation Measure MM-AQ-2 will require all buildings, including the day care center, to be equipped with HVAC systems that include MERV 16 filters that remove particulates. In addition, any windows within a 500-foot distance of I-10 and facing the freeway are required to be fixed and inoperable. However, if there is a requirement for emergency egress for a particular space facing I-10, then the window can be operable. The site will include tree plantings between residential dwellings and the freeway as well as a sound wall that will further reduce pollutant exposures.

As discussed below, exposure to particulate matter toxics drives the risk results for the project. Studies indicate that MERV16 filters are 95 to 98 percent effective in removing diesel particulate matter and other particulates from the air. Based on the HARP2 model, the maximum risks attributable to diesel particulate matter and other particulate contributors (metals) are up to 59.6 in a million. Given that the greatest contributions of risk identified in the health risk assessment are from diesel particulate matter from the freeway and rail line, and from the CalPortland facility, the risks would be reduced by 95 percent to a maximum residential risk associated with exposure to particulates of up to 2.98 in a million. As discussed in Response to Comment AQMD-6 below, with mitigation, the risk for the maximally exposed individual receptor is 7.38 in a million, which is below the SCAQMD’s significance threshold of 10 in a million. Both the residential buildings and the day care center will be equipped with MERV16 filters. Accordingly, risks to residents and the day care center will be reduced to below the SCAQMD’s level of significance.

¹ http://www.baaqmd.gov/~media/Files/Planning%20and%20Research/CEQA/BAAQMD%20CEQA%20Guidelines_Final_May%202012.ashx?la=en.

This information has been included in the revised Air Quality and Greenhouse Gas Assessment (Attachment B).

Furthermore, although not factored into the modeling, vehicles traveling on the I-10 Freeway would gradually improve in efficiency over time as emissions and efficiency requirements become more stringent. Therefore, it is anticipated that pollution coming from the I-10 freeway and CalPortland facility would be lower in the future, and maximum exposure would be reduced even further below the SCAQMD's current significance threshold of 10 in one million.

In addition, the California Supreme Court recently issued a decision in *California Building Industry Association v. Bay Area Air Quality Management District* (2015) 62 Cal. 4th 369, Case No. S213478. The decision clarifies that it is the project's impact on the environment—and not the environment's impact on the project—that compels an evaluation of how future residents or users could be affected by exacerbated conditions. Therefore, subject to certain statutory exceptions that do not apply to the project at issue here, CEQA does not require analysis of the impacts that *existing* hazardous conditions (such as freeway, railway, and industrial emissions) will have on a new project's occupants unless it can be demonstrated that the project would *exacerbate* these effects. The project will not exacerbate the existing TAC emissions from nearby sources, as it would not result in a significant increase in vehicle trips, would not involve a high volume of heavy truck trips or other sources of TACs, and is located in an area which is already surrounded by residential uses.

As demonstrated above and within the EA/IS for the project, impacts from the proposed project would not constitute a cumulatively considerable impact regarding health risks in the area. CEQA Guidelines Section 15064(h)(4) states that the mere existence of significant cumulative impacts caused by other projects alone shall not constitute substantial evidence that the proposed project's incremental effects are cumulatively considerable. Although this section relates to an EIR prepared under CEQA, the essence of CEQA's guidance can be applied to the project.

Response to Comment AQMD-6

The commenter expresses concern regarding the efficacy of mitigation requiring HVAC filtration systems. As discussed in Response to Comment AQMD-5, the risks at the site are driven by exposure to diesel particulate matter, with contributions from particulate matter (arsenic, beryllium, cadmium, hexavalent chromium, and lead) emissions from the CalPortland quarry. These pollutants would be filtered from the indoor air in the residential units and day care center through use of the HVAC system and the MERV 16 filters. The sound walls and vegetation between the roadway and the project site would also contribute to the reduction of pollutants.

It should be noted that this analysis was a screening analysis based on information available for the CalPortland quarry. The main gaseous pollutants that contribute to cancer risk are formaldehyde and polycyclic aromatic hydrocarbons, which are emitted from combustion sources at the site. Because specific information is not available regarding stack parameters, pollutants were conservatively represented as a single volume source at the site. In reality, combustion pollutants would be emitted from a stack, which would have buoyancy and momentum flux and would likely result in lower impacts at the Las Terrazas site.

In addition, the CalPortland facility does not operate 24 hours per day. According to CalPortland,² the facility commences operation at 4:30 a.m. and ceases operation at 4:00 p.m. The AERMOD modeling analysis on which the health risk assessment calculations were based originally assumed a 24-hour-per-day operation. The hours of operation have been adjusted within the AERMOD model using scaling factors to account for CalPortland's actual operations (assuming 12 hours per day from 4 a.m. to 4 p.m.). Because actual stack parameters for the point source are not known, the analysis was conservatively based on the volume source representation for all emissions. Table 1 presents the results of the updated health risk calculations.

The applicant understands that the MERV16 filters will not control emissions of gaseous toxic air contaminants (TACs). The mitigated particulate cancer risks shown in Table 1 assume 95 percent control efficiency for the MERV16 filters. Table 1 presents a summary of the contribution of risks from TACs that are particulates, rather than TACs that are in gaseous form. As shown in Table 1, with mitigation, the risks are below the SCAQMD's significance threshold of 10 in a million at all locations on the site, including the daycare center. The maximum cancer risk with mitigation will be 7.38 in a million. The analysis is based on the HARP2 model, assuming a 30-year residential exposure scenario.

Table 1: Cancer Risk by Pollutant Type

Receptor	Particulate Cancer Risk	Mitigated Particulate Cancer Risk	Gaseous Pollutant Cancer Risk	Total Cancer Risk
1	5.56E-05	2.78E-06	3.97E-06	6.75E-06
2	5.42E-05	2.71E-06	4.02E-06	6.73E-06
3	5.32E-05	2.66E-06	4.24E-06	6.90E-06
4	5.24E-05	2.62E-06	4.55E-06	7.17E-06
5	5.19E-05	2.60E-06	4.78E-06	7.38E-06
6	4.31E-05	2.15E-06	3.79E-06	5.95E-06
7	4.22E-05	2.11E-06	3.81E-06	5.92E-06
8	4.16E-05	2.08E-06	3.97E-06	6.05E-06
9	4.16E-05	2.08E-06	4.23E-06	6.31E-06
10	4.13E-05	2.07E-06	4.45E-06	6.52E-06
11	3.57E-05	1.78E-06	3.61E-06	5.39E-06
12	3.51E-05	1.76E-06	3.62E-06	5.37E-06
13	3.48E-05	1.74E-06	3.72E-06	5.46E-06
14	3.47E-05	1.74E-06	3.92E-06	5.66E-06
15	3.47E-05	1.73E-06	4.14E-06	5.88E-06

² Phone call with CalPortland Colton facility, March 31, 2016.

Table 1 (cont.): Cancer Risk by Pollutant Type

Receptor	Particulate Cancer Risk	Mitigated Particulate Cancer Risk	Gaseous Pollutant Cancer Risk	Total Cancer Risk
16	3.07E-05	1.54E-06	3.42E-06	4.95E-06
17	3.03E-05	1.51E-06	3.40E-06	4.92E-06
18	3.00E-05	1.50E-06	3.48E-06	4.98E-06
19	2.99E-05	1.50E-06	3.65E-06	5.15E-06
20	3.00E-05	1.50E-06	3.86E-06	5.36E-06
21	2.71E-05	1.35E-06	3.24E-06	4.60E-06
22	2.67E-05	1.33E-06	3.21E-06	4.55E-06
23	2.64E-05	1.32E-06	3.27E-06	4.59E-06
24	2.64E-05	1.32E-06	3.41E-06	4.73E-06
25	2.65E-05	1.32E-06	3.60E-06	4.92E-06
26	2.42E-05	1.21E-06	3.09E-06	4.30E-06
27	2.39E-05	1.19E-06	3.05E-06	4.24E-06
28	2.36E-05	1.18E-06	3.08E-06	4.26E-06
29	2.19E-05	1.10E-06	2.92E-06	4.01E-06
30	2.14E-05	1.07E-06	2.87E-06	3.94E-06
31	2.13E-05	1.07E-06	2.91E-06	3.98E-06
32	2.00E-05	9.98E-07	2.76E-06	3.76E-06
33	1.95E-05	9.76E-07	2.71E-06	3.69E-06
34	1.93E-05	9.64E-07	2.74E-06	3.70E-06
35	1.83E-05	9.16E-07	2.64E-06	3.55E-06
36	1.79E-05	8.94E-07	2.58E-06	3.47E-06
37	1.76E-05	8.82E-07	2.58E-06	3.46E-06
38	1.69E-05	8.46E-07	2.52E-06	3.37E-06
39	1.65E-05	8.24E-07	2.46E-06	3.28E-06
40	1.62E-05	8.10E-07	2.44E-06	3.25E-06

The commenter also discusses the increased costs associated with higher efficiency and efficacy filters, and references the Pilot Study of High Performance Air Filtration for Classrooms Applications dated October 2009, herein referenced as the “AQMD Pilot Study.” The referenced study was used to support the findings of the EA/IS, and it provided filter costs and research on the effectiveness of various filtration systems in order to select the most appropriate/effective mitigation technique available on the market. Filter maintenance costs to residents will not be an issue at the Las Terrazas

project, because the Applicant/property manager would be absorbing all of the filter and maintenance costs. Residents would be required to run the HVAC system 100 percent of the time in order to obtain air filtration benefits, which could create additional electricity costs in a traditional setting. However, the project is designed to be LEED Silver eligible and would exceed Title 24 standards by 15 percent. Thus, building efficiency would sufficiently reduce costs to offset electricity use by residents. Furthermore, air conditioning or heating are not required to obtain the air filtration benefits so long as the regular fan function is operating, which would also reduce potential costs. Additionally, many of the low- and very-low income residents would be eligible for SoCal Edison's reduced fee programs, thereby further reducing potential costs. Lastly, according to a preliminary California Utility Allowance Calculator (CUAC) estimate for the project, the future residents would be allotted \$44, \$75, or \$93 for one-, two-, or three-bedroom apartments, respectively. These monthly allowances would provide substantial savings to residents.

Refer to Section 3.0 for clarification to Mitigation Measure MM AQ-2.

The commenter also asserts that exposure to TACs from local sources would remain a significant impact for active outdoor sensitive receptors. However, outdoor pollutant levels would also be less than significant pursuant to the SCAQMD thresholds. Refer to Response to Comment AQMD-8 below for additional detail and analysis of outdoor exposure scenarios. Furthermore, vegetation, sound walls (and buildings for outdoor areas to the north) would further reduce pollutant levels.

Response to Comment AQMD-7

The commenter requested that all modeling input and output files be included within the appendices.

All AERMOD input and output files and HARP2 output files are provided as an attachment to the revised Air Quality and Greenhouse Gas Assessment. Copies of the files are provided as an attachment to this Response to Comments.

Response to Comment AQMD-8

The commenter states that the analysis should be revised to include 30 years, 350 days per year exposure duration to account for recreational exposure at the outdoor areas of the proposed day care.

It is not reasonable to assume that the outdoor play area would be used 24 hours per day for 30 years. The 30-year residential exposure scenario assumes that residents would be present 24 hours per day, 350 days per year, for 30 years without leaving the site. In its *Exposure Factors Handbook 5* health risk assessment guidance document, the United States Environmental Protection Agency (EPA) has collected data on the amount of time spent outdoors by children in a schoolyard or playground. According to the EPA, the 90th percentile time spent outdoors at playgrounds/school yards for all children was 210 minutes (3.5 hours), and the 90th percentile time spent outdoors at playgrounds/school yards for children aged 1 to 4 was 175 minutes (2.9 hours). For conservative purposes, this value was rounded up to 4 hours per day at the tot lot at the day care center, 250 days per year.

The exposure scenario used to calculate the risks presented in the Technical Memorandum was not adjusted from a 30-year exposure scenario. Thus, the risks were calculated based on the conservative assumption that children/adults would be present in the tot lots associated with the day care center 4 hours per day, 250 days per year, for 30 years. This is a conservative assumption based on data from the EPA's guidance on health risk assessments, and does not take into account a shorter duration of exposure that would be expected for children attending the day care. Accordingly, the analysis presents a conservative estimate of the risks anticipated from exposure in the tot lots/play yard at the day care center.

Response to Comments AQMD-9 and AQMD-10

The commenter references the Remedial Action Workplan that will be subject to oversight from the Department of Toxic Substances Control to remove contaminated soil, and states that soil disturbance of contaminated sites is subject to SCAQMD Rule 1166-Volatile Organic Compound Emissions from Decontamination of Soil.

The comment is noted.

State Clearinghouse

Response to Comment OPR-1

The commenter states that the State Clearinghouse submitted the MND to state agencies for review and no state agencies submitted comments by the review period closing date (March 10, 2016). The comment acknowledges that the Lead Agency has complied with the State Clearinghouse review requirements. No further response is warranted.

Joyce Steele

Response to Comment JSTEELE-1

The commenter explains that her property (595 Cypress Ave.) has been in her family since 1951. Currently, her son and grandchildren enjoy the privacy and room that comes with the property. The comment is noted and no response is warranted.

Response to Comment JSTEELE-2

The commenter addresses the history of previous affordable housing projects in the area and states that these projects have created problems for the surrounding neighborhoods. The commenter is concerned that the Las Terrazas project will create a hostile and unwanted environment for the neighborhood.

Comments related to perceived social issues or opposition to the project are not within the purview of NEPA or CEQA, which are limited to consideration of physical impacts on the environment. These comments will be provided to the County decision-makers in their consideration of whether to approve the project. No further response is warranted.

Patricia and Gilroy Gonzales

Response to Comment PGONZALES-1

The commenter is concerned about the proximity of the affordable housing project to the elevated Union Pacific railroad tracks. The commenter states that this is not an appropriate place for a housing project because of noise, vibration, and possible derailment concerns.

As discussed in Section XII of the CEQA Checklist, Mitigation Measure NOI-1 intends to prevent considerable noise impacts future residents. The project applicant will be required to conduct an exterior-to-interior noise analysis that is based on building plans and to include any building features necessary to achieve an interior noise level of 45 CNEL or less.

This section also describes the 8-foot noise barrier around the Daycare Open Space that is anticipated to meet the 65 CNEL noise limit set by the County of San Bernardino. The proposed project must meet the noise standards set by the County. Impacts relating to Union Pacific railroad tracks and other noise sources in the vicinity are less than significant with mitigation.

Response to Comment PGONZALES-2

The commenter describes the concern of building a housing project next to the same gas pipeline that had exploded in 1989. The pipeline parallels the railroad tracks located near the project site.

As discussed in the Hazards and Nuisances including Site Safety section of the Environmental Assessment, a Phase I assessment was completed for the site in preparation for the project. The Phase I did not find the lot or areas adjacent to the lot threats to the project site. The Calnev 14-inch High Pressure Gas Pipeline referred to by the commenter must comply with all applicable regulations (including those codified under California Government Code Section 4216, et seq.) and does not currently pose a threat to the project site.

Response to Comment PGONZALES-3

The commenter states Valley Boulevard and Cypress Avenue are known to flood a day or two after substantial rain. Traffic is closed at the project site location when these areas flood.

It is unclear whether this comment is concerned with the project's contribution to existing flooding, or simply that improvements unrelated to the project should be made to Valley Boulevard and Cypress Avenue.

As stated in the Storm Water section of the Environmental Assessment, approximately 73 percent of the project site would be covered in impermeable surfaces. Therefore, the project would alter the existing drainage pattern on the site through the establishment of additional impervious surfaces that would result in increased runoff amounts. However, the project proposes an on-site stormwater collection system that would ensure that project-generated incremental flows are detained on-site during storm peak periods. Drainage would be collected in the northwest corner of the site and beneath the gated entrance area across from the exterior guest parking. Tributary stormwater runoff from the project site will not adversely affect persons or properties on-site and

off-site. Upstream site runoff currently flows through the project site to the curb and gutter of Cypress Avenue, while on-site runoff shall be intercepted and treated by Treatment Control Low Impact Development (LID) best management practices (BMPs) installed within the site before joining the off-site flow and discharging to curb and gutter of Cypress Avenue, and to downstream public drainage facilities.

Vegetated or grassy swales are proposed throughout the landscaping and planting areas of the project site. The design of vegetated or grassy swales promotes the conveyance of stormwater at a slower, controlled rate and acts as a filter medium removing pollutants (especially bacteria and pathogens) and allowing minimal stormwater infiltration. The buildings' downspouts will be directed to outlet to the nearby or adjacent vegetated or grassy swales. The runoff on grassy swales will be intercepted by numerous grated drop inlets or area drains and then conveyed via interconnected storm drain pipes and outlet to the selected underground storage LID BMP for treatment control, infiltration, and detention routing purposes.

Therefore, the project would not create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems. The project would be required to comply with the Development Code and pay drainage fees to contribute to the costs of constructing planned drainage facilities.

Since the project would not contribute to runoff water that would exceed the capacity of existing or planned stormwater drainage systems, the flooding addressed by the commenter would be minimally affected by the project.

Response to Comment PGONZALES-4

The commenter is concerned the increase in school-age children will overcrowd Paul J Rogers and US Grant Elementary Schools.

The Elementary Facilities Section of the Environmental Assessment checklist addresses this issue. Should the schools previously referenced have full capacity, then the district is required to place the students in other schools within the district. The 84 additional students that could potentially be generated by the project would represent a negligible increase in student enrollment within CJUSD. As part of a separate information request in July of 2014, Owen Chang stated that the project would be required to pay the appropriate Development Fees, as detailed below.

The project is subject to payment of Development Fees (\$3.20 per square foot of residential development), which would reduce any potential impacts to school services and facilities, in accordance with the California Government Code Section 65996, which provides that payment of school impact fees is considered full and complete mitigation for impacts to school facilities.

Patrick Herman Gonzales

Response to Comment PHGONZALES-1

The commenter addresses Aron Liang and introduces himself as the occupant of 395 Cypress Avenue. No response is warranted.

Response to Comment PHGONZALES-2

The commenter states he and the rest of the neighboring residences believe that the two- and three-story apartment complex will intrude on privacy and make the area less appealing. In addition, the additional traffic passing through the area from residents, visitors, and childcare users will cause issues.

As stated in the Compatibility and Urban Impact section of the Environmental Assessment, development of the proposed project would require approval of a zone change to Special Development Residential (SD-Res), and a Planned Development Permit to allow the construction of 112 units and daycare facilities on-site. The project, as designed and conditioned, would be compatible with the existing and planned residential land use character of the surrounding area. Issuance of the zone change and Planned Development Permit would be dependent upon the project satisfying the development standards for such requests including size, density, structure, design, and placement of features. Compliance with the relevant Development Code provisions, which would be verified through the County's development review process, would implement the General Plan goals and ensure land use compatibility. Compliance with the Development Code would ensure the project would not be detrimental to the County's public interest, health, safety, convenience, welfare, or compromise other land uses.

As stated in the Transportation section of the Environmental Assessment, the project would add approximately 918 daily vehicle trips with 93 AM peak-hour trips and 106 PM peak-hour trips. The effect of these trips on the surrounding areas was analyzed for existing conditions and forecast 2035 conditions. This includes analysis associated with ambient growth in addition to cumulative projects identified by County of San Bernardino staff. Based on thresholds of significance, with the implementation of identified mitigation measures, the addition of the project would not result in adverse traffic impacts. In addition, the project does not conflict with adopted policies related to public transit or bicycle and pedestrian travel.

Response to Comment PHGONZALES-3

The commenter states that AMCAL, the project applicant, does not take into account all of the factors associated with building the affordable housing complex. In addition, the commenter states his displeasure with AMCAL's perceived motives behind the project. Comments related to perceived political issues or opposition to the project are not within the purview of NEPA or CEQA, which are limited to consideration of physical impacts on the environment. These comments will be provided to the County decision-makers in their consideration of whether to approve the project. No further response is warranted.

Response to Comment PHGONZALES-4

The commenter states that he and the neighboring residences would be more supportive of single-family homes being built on the project site rather than the multi-story apartment complex. This comment will be provided to the County decision-makers in their consideration of whether to approve the project. No further response is warranted.

Response to Comment PHGONZALES-5

The commenter stresses his displeasure with the project—most significantly, the height of the project. Refer to Response to Comment PHGONZALES-2 for discussion regarding compatibility within the area. No further response is warranted.

Mr. Ruben Aguilar

Response to Comment RAGUILAR-1

This comment addresses the fact that Mr. Ruben Aguilar passed away and was unable to sign the letter he wrote previously. No response is warranted.

Response to Comment RAGUILAR-2

This comment is a list of signatures from neighbors of Mr. Ruben Aguilar that were able to send the letter he wrote on the project before passing away. No response is warranted.

Response to Comment RAGUILAR-3

The commenter states that he received multiple letters regarding the project from both a private company and the County of San Bernardino. The commenter is concerned about the logistics of the planning of the project. The comment is noted and no response is warranted.

Response to Comment RAGUILAR-4

The commenter states that the project site will be receiving sewer service before the homes that are currently in the area. Along with this, the commenter is concerned about the water supply and whether there will be enough potable water for the area once the project is built.

As stated in the Water Supply section of the Environmental Assessment, the project site is located within the Colton Public Utilities service area. The water main in the easement property belongs to Terrace Water Company (TWC); however, the City of Colton has agreed to provide water service to the site (see Attachment I of the Environmental Assessment/Initial Study). The City of Colton 2010 Urban Water Management Plan (UWMP) was prepared to provide water supply planning for the area over a 20-year period year (through 2035) and identify/quantify water supplies for existing and future demands. TWC's water supply sources include water produced from groundwater extracted from the San Bernardino Basin Area (Bunker Hill Basin portion), the Rialto-Colton Basin, and the Riverside Basin (Riverside North Basin portion). Project implementation would result in population growth, with a resultant increase in water demand. TWC includes the water demands for growth attributable to the project in its UWMP, and has capacity to provide potable water to its service area into the foreseeable future. Additionally, the project includes design features that would reduce the

project's water demands. The project would comply with Title 24 requirements, as well as the California Green Building Code standards. Drought-tolerant landscaping, drip irrigation, and low impact development would also be incorporated into the project design. The project's water demand would not substantially deplete groundwater supplies or interfere substantially with groundwater recharge.

Response to Comment RAGUILAR-5

The commenter states that out-of-County developers make problems for the areas including Downtown Colton and the cities of Rialto and Redlands. The commenter is concerned about the overcrowding of downtown areas. The comment is noted and no further response is warranted.

Response to Comment RAGUILAR-6

The commenter expresses his concern for traffic and flooding problems in the surrounding areas. This includes the number of vehicles that would be added to the area and flooding at the corner of Cypress Avenue and Valley Boulevard. This subject has been addressed above in the response to comments PHGONZALES-2 and PHGONZALES-3.

Response to Comment RAGUILAR-7

The commenter is concerned that the affordable housing project will result in a hostile and violent environment for the surrounding areas. Comments related to perceived social issues or general opposition to the project are not within the purview of NEPA or CEQA, which are limited to consideration of physical impacts on the environment. These comments will be provided to the County decision-makers in their consideration of whether to approve the project. No further response is warranted.

Glenn McCutchen

Response to Comment GMCCUTCHEN-1

The commenter strongly opposes the project because of the negative effects it will cause for the surrounding property values. This includes the deterioration of the neighborhood, increased crime rate associated with low-income housing, and the burden it will place on the local water company.

Comments related to perceived social issues or opposition to the project are not within the purview of NEPA or CEQA, which are limited to consideration of physical impacts on the environment. These comments will be provided to the County decision-makers in their consideration of whether to approve the project.

Response to Comment RAGUILAR-4 addresses the concern for local water supply for the project site and surrounding property areas.

OmniTrans

Response to Comment OMNITRANS-1

The commenter discusses the possibility of creating a bus stop and sidewalk in front of the project site on Valley Boulevard.

The Lead Agency plans to construct a bus stop and coordinate with OmniTrans while doing so. See Response to Comment DOT-6 for additional detail.

SECTION 3: CHANGES TO THE ENVIRONMENTAL ASSESSMENT/INITIAL STUDY

The following changes and additions to the Environmental Assessment/Initial Study (EA/IS) have been made and are detailed below. These revisions do not change the significance of any of the environmental issue conclusions within the EA/IS. The revisions are listed by page number. All additions to the text are underlined and bold and all deletions from the text are stricken.

Changes in Response to Specific Comments

Description of the Proposal

Page 4, end of paragraph 2

Under the oversight of DTSC, the project would include the excavation and disposal of 715 tons of contaminated soil utilizing 35 trucks.

Page 7, Table 2

Natural gas and electrical services are provided to the property by the Southern California Gas Company, and Southern California Edison, respectively. The City of Colton ~~Public Works~~ provides potable water to the Project site. There will be no septic systems on-site . . .

Remediation Activities: Under the oversight of DTSC, approximately 715 tons of contaminated soil will need to be excavated and disposed of utilizing 35 trucks.

Pages 7 and 8

The Project site would have a 400-ft. extension north along Cypress Ave. from the existing sewer main in Valley Blvd. The Project site would require an 8-inch PVC sewer main on-site and 10-inch PVC sewer main along the northerly entry driveway and a 10-inch PVC sewer main off-site on Cypress Ave. The City of Colton ~~Public Works~~ **will** provides sewer service to the Project site.

Natural gas and electrical services are provided to the property by the Southern California Gas Company, and Southern California Edison, respectively. The City of Colton ~~Public Works~~ **will** provides potable water to the Project site. There will be no septic systems on-site.

Statutory Checklist, Air Quality

Page 19, Mitigation Measure AQ-1

AQ-1: Dust Control Plan. Prior to Grading Permit or Building Permit issuance, the “developer” shall prepare, submit for review, and obtain approval from County Planning of both a Dust Control Plan (DCP) consistent with SCAQMD guidelines and a signed letter agreeing to include in any **remediation or** construction contracts/subcontracts a requirement that Project contractors adhere to the DCP requirements. The DCP shall include the following requirements . . .

Statutory Checklist, Noise Abatement and Control Section

Page 21

Temporary noise impacts from construction and remediation activities on-site are expected to be controllable by standard construction noise control methods including adhering to permissible hours of operation . . .

Environmental Assessment Checklist, Air Quality

Page 37

Greenhouse gases (GHGs) are an area of recent concern and analysis in HUD documents. The Project would be compliant with Title 24 requirements, as well as the California Green Building Code standards. Furthermore, the Project is pursuing LEED Silver Certification. Operational GHG emissions would be largely derived from passenger vehicles making trips to and from the site. The CalEEMod model runs calculated the Project's GHG emissions (including remediation activities), which would be ~~423~~ **428** metric tons of CO₂ equivalents during remediation and construction. The SCAQMD recommends amortizing construction emissions over a period of 30 years to estimate the contribution of construction emission to operational emissions over the Project lifetime . . .

Page 38 (and all other occurrences of MM AQ-2)

AQ-2: HVAC Requirements. The buildings will be equipped with a central heating, ventilation, and air conditioning (HVAC) system that includes high efficiency filters for particulates (Minimum Efficiency Reporting Value [MERV] 16). Any windows within a 500-foot distance to I-10 and facing the freeway are required to be inoperable, except as required for emergency egress. The project shall include tree plantings between residential dwellings and the freeway. To ensure long-term maintenance and replacement of the MERV filters in the individual units, the following shall occur:

- a) Developer, sale, and/or rental representative shall provide notification to all affected tenants/residents of the potential health risk for affected units.
- b) For rental units, the owner/property manager shall maintain and replace MERV filters in accordance with the manufacture's recommendations. The property owner shall keep a maintenance log schedule with proof of the filter replacements. Such log shall be available for inspection by the County of San Bernardino Building and Safety Department. The property owner shall inform renters of increased risk of exposure to diesel particulates when windows are open or the HVAC air flow is turned off.

Environmental Assessment Checklist, Waste Water

Pages 44 and 4

The Project would be required to provide payment to offset any incremental increase in demand for waste water conveyance and treatment. **An out-of-agency service agreement will be needed that requires LAFCO review and approval prior to extending wastewater services to the project.** Furthermore, the Project would be required to **then** obtain "Will-Serve" documentation from the service provider, which would verify adequate service capability of the applicable facilities.

Environmental Assessment Checklist, Water Supply

Pages 47 and 48

The Project site is located within the Colton Public Utilities service area. The water main in the easement property belongs to Terrace Water Company; however, **TWC and the City of Colton Public Utilities have agreed the City would provide water service to the site (see attachment I). Water service will be provided by the City through an out-of-agency service agreement that requires LAFCO review and approval prior to extending water service to the project site.**

*** FWC references shall be replaced with TWC (Terrace Water Company).**

Environmental Assessment Checklist, Water Resources

Page 52

The City of Colton's ~~Public Utilities~~ water supply comes entirely from deep water wells. Colton's existing potable water system facilities consist of 15 wells, 5 main booster pumping plants, 9 water storage reservoirs, 2 pressure reducing facilities, and over 120 miles of water transmission . . .

CEQA Checklist, Section III. Air Quality

Table 3, Page 69

Revisions are contained within Table 5: Estimated Construction Emissions of the revised Air Quality and Greenhouse Gas Assessment contained within Attachment B.

Long-Term Emissions, Page 71

As indicated in Table 3, impacts would be less than significant for all criteria pollutants during construction **and remediation activities**. Implementation of standard SCAQMD measures (required by Mitigation Measure AQ-1) would further reduce these emissions. Thus, construction **and remediation**-related air emissions would be less than significant.

*** A revised Air Quality and Greenhouse Gas Assessment including remediation activities is provided in Attachment B of this Response to Comments document.**

CEQA Checklist, Section VII Greenhouse Gas

Page 94

Based on the results of the CalEEMod Model, the Project would generate a total of ~~423~~ **428** metric tons of CO₂e emissions during construction **and remediation activities** . . .

Based on the results of the CalEEMod Model, the Project would generate a total of 1,393 metric tons of CO₂e emissions for operations. Adding the amortized construction **and remediation** emissions results in an estimate of 1,407 metric tons of CO₂e emissions for ~~both~~ remediation, construction, and operation . . .

CEQA Checklist, Section VIII Hazards and Hazardous Materials

Pages 96 and 97

The project site was in agricultural use from prior to 1930 until at least 1938, but no later than 1953. Soil sampling indicates the presence of hazardous substances in soil, specifically Poly-Chlorinated Biphenyls (PCBs) and Organo-Chlorine Pesticides (OCPs). In order to address these impacts, AMCAL Multi-Housing voluntarily entered into an agreement with DTSC. AMCAL Housing will excavate the impacted soil for transportation and disposal at a licensed off-site disposal facility in accordance with a Remedial Action Workplan approved by DTSC. The site will be remediated to meet United States Environmental Protection Agency Regional Screening Levels for residential soils and Department of Toxic Substances Control Human and Ecological Risk Office Human Health Risk Assessment Note 3.

CEQA Checklist, Section IX Hydrology and Water Quality

Page 99

In addition, as discussed in the Environmental Assessment Checklist section, a site-specific Water Quality Management Plan will be prepared for approval and will be implemented during construction and post-construction activities.

CEQA Checklist, Section XII.a Noise

Short-term Construction, Pages 107 and 111

For this reason, a detailed analysis of temporary construction **and remediation** noise has not been provided.

Temporary noise impacts from construction **and remediation** on-site are expected to be controllable by standards construction noise control methods including adhering to permissible hours of operation, maintaining equipment in proper operating condition, and placing staging areas at farthest locations from noise sensitive receptors.

Section XVI Transportation/Traffic

Page 117-120, Impact A)

The following environmental evaluation is based on the Traffic Impact Analysis prepared by Linscott Law and Greenspan (**October** 2015), which is included as Appendix G of this Initial Study.

TRA-1: The Street improvement plans shall include:

- Install a “STOP” sign and stop pavement markings at the project driveway on Valley Blvd.
- **Install a “STOP” sign and stop pavement markings at the project driveway on Cypress Avenue.**
- **Restripe Valley Blvd. along the project frontage to provide a two-way left turn lane and a 60 foot eastbound left turn pocket at its intersection with Cypress Avenue.**

TRA-2: This project falls within the Regional Transportation Facilities Mitigation Plan for the Colton Subarea. This fee shall be paid by a cashier's check to the Department of Public Works Business Office. The Plan fees shall be computed in accordance with the Plan fees in effect as of the date that the building plans are submitted and the building permit is applied for.

Revised Air Quality and GHG Report

Based on the results of the CalEEMod Model, the Project would generate a total of ~~427~~428 metric tons of CO₂e emissions during construction and remediation activities . . .

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Attachment A:
Comments on the Environmental Assessment/Initial Study
for the Mixed-Use Affordable Housing and Childcare Project

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From: CHANG OWEN [mailto:OWEN_CHANG@cjusd.net]
Sent: Wednesday, February 17, 2016 5:46 PM
To: Liang, Aron <Aron.Liang@lus.sbcounty.gov>
Subject: Planning Project Notice

Assessor Parcel Number: 0274-182-34

Project Number P201500538/CF

Applicant: Darin Hansen- Vice President

Mr. Liang,

We're in receipt of the proposed land use amendment for the above reference project. While we do not have any objections to the proposed zoning change, our main concern is whether the developer fee will adequately cover the cost of providing additional school facilities to house the new students, as well as cost impact to our transportation.

Regards

Owen Chang
Colton Joint Unified School District.



Department of Public Works
Environmental & Construction • Flood Control
Operations • Solid Waste Management
Surveyor • Transportation

Gerry Newcombe
Director

DPW
Page 1 of 1

March 3, 2016

County of San Bernardino
Aron Liang, Senior Planner
Land Use Services Department – Planning Division
385 N. Arrowhead Avenue, First Floor
San Bernardino, CA. 92415-0187
Aron.liang@lus.sbcounty.gov

File: 10(ENV)-4.01

**RE: CEQA/NEPA – NOTICE OF AVAILABILITY OF A MITIGATED NEGATIVE
DECLARATION/FONSI FOR THE LAS TERRAZAS PROJECT FOR SAN BERNARDINO COUNTY**

Dear Mr. Liang:

Thank you for giving the San Bernardino County Department of Public Works the opportunity to comment on the above-referenced project. **We received this request on February 16, 2016** and pursuant to our review, the following comments are provided:

Traffic Division (Ed Petre, PWE III, 909-387-8239):

1. The findings in Section XVIa seemed to be based on an older version of the traffic study. This section should reflect the findings based on the Linscott Law and Greenspan report dated October 15, 2015.

Environmental Management Division (Marc Rodabaugh, Stormwater Program Manager, 909-387-8112):

1. The Environmental Assessment needs to clarify, either through a description in the Hydrology Section, or in their statement HYD-1, that they are preparing a site-specific WQMP for approval and will implement it during construction and post-construction activities.

If you have any questions, please contact the individuals who provided the specific comment, as listed above.

Sincerely,

A handwritten signature in blue ink, appearing to read "Nidham Aram Alrayes".

NIDHAM ARAM ALRAYES, MSCE, PE, QSD/P
Public Works Engineer III
Environmental Management

NAA:PE:sr

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2016 MAR 15 AM 8:20

March 9, 2016

File: 08-SBd-10-PM 21.59

Aron Liang
San Bernardino County
385 North Arrowhead Avenue
San Bernardino, CA 92415

Las Terrazas Project – Traffic Impact Analysis

Dear Mr. Liang:

Thank you for providing the California Department of Transportation (Caltrans) the opportunity to review and comment on the Traffic Impact Analysis (TIA) for the County of San Bernardino Las Terrazas Project (Project), located on the northwest quadrant of Cypress Avenue and Valley Boulevard in the County of San Bernardino. The project proposes a 112-unit apartment complex and a day care center for up to 50 students.

As the owner and operator of the State Highway System (SHS), it is our responsibility to coordinate and consult with local jurisdictions when 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 County of San Bernardino, due to the project's potential impact to the State facilities, including Interstate 10, it is also subject to the policies and regulations that govern the SHS. We offer the following comments:

- Use the 2010 Highway Capacity Manual (HCM) rather than the 2000 HCM. The 2010 HCM is slightly different from the 2000 HCM; therefore, this usage may be subject to challenge during the environmental review process. Explain why older version of the HCM was used for calculations.
- Indicate if the truck volume is lower during regular AM/PM Peak Hours. Truck traffic does not follow regular commuter patterns. Use counts to prepare the exhibit.
- Explain the growth rate used to determine traffic volumes for 2017 and beyond, and incorporate it with the regional growth rate.

Mr. Liang
March 9, 2016
Page 2

- State if any assumptions/changes were made to update the SBTAM; including network, projects, and Socioeconomic Data.

5

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 and Urban Bikeway Design Guide at http://nacto.org/wp-content/uploads/2011/03/NACTO_UrbanBikeway_DesignGuide_LRez.pdf).

6

- Coordinate with OmniTrans to locate transit stops on Valley Boulevard within walking distance of the project site and maintain transit service that is efficient to reduce Vehicle Miles Traveled and Greenhouse Gases.
- Provide safe and consistent pedestrian connections, sidewalks, along the north leg of Valley Boulevard and the west leg of Cypress Avenue along the frontage of the project site.

All comments should be addressed and the TIA should be resubmitted. These recommendations are preliminary and summarize our review of materials provided for our evaluation. Please continue to keep us informed of the project and other future updates, which could potentially impact the SHS and interfacing transportation facilities. If you have any questions or need to contact us, please do not hesitate to contact Adrineh Melkonian at (909) 806-3928 or myself at (909) 383-4557.

7

Sincerely,



MARK ROBERTS
Office Chief
Intergovernmental Review, Community and Regional Planning



2016 MAR 10

Department of Toxic Substances Control



Matthew Rodriguez
Secretary for
Environmental Protection

Barbara A. Lee, Director
5796 Corporate Avenue
Cypress, California 90630

Edmund G. Brown Jr.
Governor

March 10, 2016

Mr. Aron Liang, Senior Planner
County of San Bernardino Land Use Services Department - Planning Division
385 North Arrowhead Avenue, First Floor
San Bernardino, CA 92415-0187

REVIEW OF DRAFT FINDING OF NO SIGNIFICANT IMPACT (FONSI) / MITIGATED NEGATIVE DECLARATION (MND) FOR THE LAS TERRAZAS AFFORDABLE HOUSING PROJECT – SCH # 2016021048

Dear Mr. Liang:

The Department of Toxic Substances Control (DTSC) has reviewed the Draft FONSI/MND of February 2016 for the Las Terrazas Affordable Housing Project (Project). The Project involves the construction of 112 multi-family homes for low- and very low-income households, a Daycare Center, Community Building, and other amenities in the unincorporated portion of San Bernardino County, and near the City of Colton. The Project would require a General Plan amendment from Single Residential (SR) and Commercial General (CG) to Special Development-Residential (SDRes). It would also require a Planned Development Permit, pursuant to the County of San Bernardino Development Code requirements and standards.

As you are aware, DTSC oversees hazardous substance cleanup pursuant to the California Health and Safety Code, Division 20, Chapter 6.8. As a Responsible Agency, DTSC is submitting comments to ensure that the California Environmental Quality Act (CEQA) documentation being prepared for this project adequately addresses any remediation of hazardous substances that might be required as part of this project. The following comments are included to identify areas in the FONSI/MND that require inclusion of remedial activities that are under DTSC oversight:

- 1) Since DTSC has discretionary approval over the Removal Action Work Plan (RAW), both DTSC's discretionary authority and DTSC's role as a Responsible Agency under CEQA should be clearly identified.
- 2) Pages 4-7 describe the project and its components. Please include the remedial activities occurring under DTSC's oversight both within the description and in Table 2, specifically the approximate 715 tons of contaminated soil that will need

Mr. Aron Liang
March 10, 2016
Page 2

to be excavated and disposed off-site utilizing 35 trucks. This data has been obtained from the draft RAW submitted by Rincon Consulting.	4 CONT
3) Pages 19-20 detail an air quality dust control plan to comply with South Coast Air Quality Management District (SCAQMD) Rule Fugitive Dust Controls. Please include in AQ-1 that the Dust Control Plan will include remediation activities in addition to grading and construction activities.	5
4) Page 21 includes the measures needed to address Noise Abatement and Control. Please include "and remediation" in the following sentence: Temporary noise impacts from construction <u>and remediation</u> on-site are expected to be controllable by standard construction noise control methods including adhering to permissible hours of operation...	6
5) Page 37 documents the CalEEMod calculations for greenhouse gas (GHG) emissions. Please ensure the worker vehicles, disposal trucks and equipment utilized for remedial activities are included in the total GHG emissions. DTSC does not anticipate the inclusion of remedial activities to significantly change the project's GHG emissions because the current amortized construction emissions are 1,407 metric tons of CO ₂ , which is significantly below SCAQMD's 3,000 metric ton threshold.	
6) Pages 67-71 analyze short-term construction emissions and fugitive dust from construction activities. Please include mention of remedial activities in this analysis whenever the document also refers to construction and/or grading activities. Please ensure the worker vehicles, disposal trucks and equipment utilized for remedial activities are included in the total calculations for construction emissions and fugitive dust associated with the project's construction.	7
7) Page 69 contains Table 3, which depicts the estimated construction emissions. Please include the worker vehicles, disposal trucks and equipment utilized for remedial activities in these calculations.	
8) Page 94 analyzes the GHG emissions for the construction phase of the project. Please see 4), above for DTSC's recommendation.	
9) Pages 96-97 provide environmental analysis for the Hazards and Hazardous Materials section of the Initial Study. Please include the following in the Substantiation paragraph: <u>The project site was in agricultural use from prior to 1930 until at least 1938, but no later than 1953. Soil sampling indicates the presence of hazardous substances in soil, specifically Poly-</u>	8

Mr. Aron Liang
March 10, 2016
Page 3

Chlorinated Biphenyls (PCBs) and Organo-Chlorine Pesticides (OCPs). In order to address these impacts, AMCAL Multi-Housing voluntarily entered into an agreement with DTSC. AMCAL Housing will excavate the impacted soil for transportation and disposal at a licensed off-site disposal facility in accordance with a RAW approved by DTSC. The site will be remediated to meet United States Environmental Protection Agency Regional Screening Levels for residential soils and DTSC Human and Ecological Risk Office Human Health Risk Assessment Note 3.

8
CONT

- 10) Pages 107 and 111 explain why a temporary construction noise analysis has not been provided. Please include "and remediation" within the following sentence on page 107:

For this reason, a detailed analysis of temporary construction and remediation noise has not been provided.

Please include "and remediation" within the following sentence on page 111:

Temporary noise impacts from construction and remediation on-site are expected to be controllable by standard construction noise control methods including adhering to permissible hours of operation, maintaining equipment in proper operating condition, and placing staging areas at farthest locations from noise sensitive receivers.

9

If you have any questions, please call me at (714) 484-5471. Thank you in advance for your consideration of our comments.

Sincerely,

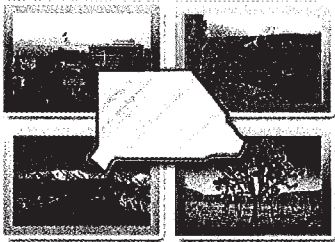


Poonam Acharya
Project Manager
Brownfields and Environmental Restoration Program – Cypress

10

cc: Ms. Alexandra Borack, Associate Environmental Planner (via e-mail)
DTSC Office of Planning & Environmental Analysis – Sacramento
Alexandra.Borack@dtsc.ca.gov

Mr. Emad Yemut, Unit Chief (via e-mail)
DTSC Cleanup Program – Cypress Office
Emad.yemut@dtsc.ca.gov



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for San Bernardino County

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LEGAL COUNSEL

CLARK H. ALSOP

March 10, 2016

Aron Liang, Senior Planner
County of San Bernardino
Land Use Services Department – Planning Division
385 North Arrowhead Avenue
San Bernardino, CA 92415-0187

Dear Mr. Liang:

RE: NOA/NOI to Adopt a Finding of No Significant Impact
and Mitigated Negative Declaration for the Las
Terrazas Affordable Housing Project

The Local Agency Formation Commission (LAFCO) received the
Notice of Availability (NOA) / Notice of Intent (NOI) to adopt a
Finding of No Significant Impact (FONSI) and Mitigated Negative
Declaration (MND) for the Las Terrazas Affordable Housing
Apartments and Childcare Project.

LAFCO will be acting as a responsible agency under CEQA for the
project since it will require LAFCO approval of an out-of-agency
service contract between the City and the property owner/developer
for water and sewer service. This is required since the project is
located outside the boundaries of the City. In order to properly
evaluate these services to be provided by contract, LAFCO has the
following comments related to the County's environmental
assessment prepared for the project:

- Table 2: Project Components, Page 7 and 8.

The description for the sewer component is not entirely
accurate. Although the City of Colton's Public Works
Department may be the department that manages the city's
wastewater collection and treatment system, it is the City of
Colton who provides the service. In addition, the last
sentence of the description may be construed as though the
service has already been provided.

The same is true for the water description under Other
Utilities. Again, the City of Colton is the water service
provider, not its Public Works Department.

- Exhibit 2 – Local Vicinity Map, Page 13.

The map is flawed. The outline of the project site does not show the entirety of the project area.

3

Environmental Assessment Checklist

- Wastewater, pages 44 and 45.

The description identifies that the project will require a “will-serve” documentation from the City. However, this statement should be augmented with the need for an out-of-agency service agreement that requires LAFCO review and approval prior to extending wastewater service to the project. LAFCO approval is required before a will-serve or other contractual relationship can be finalized.

4

- Water Supply, pages 47 and 48.

Again, the description should clearly identify that water service will be provided by the City through an out-of-agency service agreement that requires LAFCO review and approval prior to extending water service to the project. It should also clearly identify that even though the project area is within the water service area of Terrace Water Company, the water company has provided its consent (through agreement with the property owner/developer) for the City to provide water service to the project site.

5

It should be noted that there are statements in the source/documentation description that refers to water supply sources and capacity related to “FWC”. These need to be deleted or corrected.

6

- Fire, page 49.

The project site is in the unincorporated area of the San Bernardino Valley region; therefore, the area is within the boundaries of the San Bernardino County Fire Protection District and its Valley Service Zone. However, it LAFCO’s understanding that the area is currently being served, by contract, by the City of Colton’s Fire Department. Please verify this information.

7

- Water Resources, page 52.

Again, the City of Colton is the entity that provides water service, not its Public Utilities Department.

8

Thank you for allowing LAFCO to provide comments to the NOA/NOI. If you have any questions concerning the information outlined above, please do not hesitate to contact me or Samuel Martinez, Assistant Executive Officer, at (909) 388-0480. Please

9

maintain LAFCO on your distribution list to receive further information related to this process. We look forward to working with the County and the City of Colton on the future processing of this project.

9
CONT

Sincerely,



KATHLEEN ROLLINGS-McDONALD
Executive Officer

cc: Tom Dodson, Tom Dodson and Associates, LAFCO Environmental Consultant

2016 MAR 15 PM 1:05



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

SENT VIA E-MAIL AND USPS:

March 10, 2016

Aron.Liang@lus.sbcounty.gov

Aron Liang, Senior Planner
San Bernardino County
Land Use Services Department – Planning Division
385 North Arrowhead Avenue, First Floor
San Bernardino, CA 92415-0187

Draft Finding of No Significant Impact (FONSI) and Draft Mitigated Negative Declaration (Draft MND) for the Proposed Las Terrazas Affordable Housing Apartments and Childcare Center Project (Project No. P201500538)

The South Coast Air Quality Management District (SCAQMD) staff appreciates the opportunity to comment on the above-mentioned document. The following comments are meant as guidance for the Lead Agency and should be incorporated into the Final CEQA document.

1

According to the project description, the Lead Agency proposes to construct 112 multi-family apartment units, including parking, at the northwest corner of the intersection of North Cypress Avenue and West Valley Boulevard, in the sphere of influence of the City of Colton in San Bernardino County. The project will also include a 2,000-square foot community building and development of a 3,000 square foot child care center to service up to 50 children in the neighborhood. The three parcels are currently vacant as the house that was located on the third parcel has been demolished. The project construction is expected to be completed in one year by 2017.

2

The SCAQMD staff has concerns that the proposed mitigation included in the Draft MND will not reduce the estimated significant cancer risk from toxic air contaminant sources to below levels of significance. In the Health Risk Assessment (HRA), the Lead Agency estimated cancer risk at 67.9 in one million, which exceeds the SCAQMD recommended threshold of significance of 10 in one million cases¹. The Lead Agency has proposed mitigation to reduce the significant cancer risks but the proposed mitigation would not reduce the risk from toxic air contaminants since the proposed mitigation is designed to reduce impacts from particulate matter created by sources of dust, not toxic gases generated from combustion or other toxic air contaminant sources. Further, the SCAQMD staff reiterates the advisory recommendations from the California Air Resources Board (CARB) that includes a buffer distance between sensitive receptors and different sources of TAC. Further details are included in the attachment.

3

¹ Maximum Incremental Cancer Risk (MICR).

Mr. Aron Liang,
Senior Planner

2

March 10, 2016

Pursuant to Public Resources Code Section 21092.5, SCAQMD staff requests that the Lead Agency provide the SCAQMD with written responses to all comments contained herein prior to the adoption of the Final FONSI/MND. Further, staff is available to work with the Lead Agency to address these issues and any other questions that may arise. Please contact Sam Wang, Air Quality Specialist – CEQA Section, at (909) 396-2649, if you have any questions regarding these comments.

4

Sincerely,

Jillian Wong

Jillian Wong, Ph.D.
Program Supervisor
Planning, Rule Development & Area Sources

Attachment

JW:GM:SW

SBC160211-08
Control Number

CARB Guidance for Siting Sensitive Receptors Near Freeways

1. In the Draft MND, the proposed sensitive receptors (residences, children at the child care center, etc.) will be sited just north of the I-10 Freeway, a freight line operating on the Union Pacific Rail Road (UPRR) line, and the CalPortland Quarry and cement facility. Based on an aerial map inspection, project residents and the day care center would currently be located less than 500 feet of the truck traffic traveling on the I-10 Freeway and the train traffic operating on the UPRR tracks. The Lead Agency has proposed mitigation (MM AQ-2) that would move the child care center as far north in the project site plan as possible to minimize the freeway and rail impacts but the site plan included in the Draft MND shows the child care center sited in the southern area of the project site, closest to the I-10 Freeway. Because of the close proximity to the existing freeway and rail line, the project sensitive receptors (based on the current site plan in the Draft MND) would be exposed to diesel particulate matter (DPM), which the California Air Resources Board (CARB) has determined to be carcinogenic.

Numerous health studies have demonstrated the potential adverse health effects of living near highly travelled roadways and major rail yards. As a result of these studies, in 2005 the California Air Resources Board (CARB) recommended avoiding siting housing within 500 feet of a freeway in their Land Use Handbook². Additional research has continued to support that the near roadway environment contains elevated levels of many pollutants that adversely affect human health, including some pollutants that are unregulated (e.g., ultrafine particles) and whose potential health effects are still emerging³. While the health science behind recommendations against placing new residences close to freeways is clear, the SCAQMD staff recognizes the many factors lead agencies must consider when siting new housing. Further, many mitigation measures have been included in the CEQA document and proposed for other projects to reduce exposure, including building filtration systems, placing the residential units furthest from the freeway, making any windows facing the freeway inoperable, building sound walls, planting vegetation barriers, etc. However, because of the potential health risks involved, it is critical that any proposed mitigation must be carefully evaluated prior to determining if those health risks would be brought below recognized significance thresholds. Based on the proposed project, the SCAQMD reiterates the CARB advisory recommendations that the final site plan in the Final MND include the 500 foot buffer between sensitive receptors (including the siting of the child care center as mentioned in MM AQ-2) in order to reduce the adverse health impacts from and the above-mentioned sources of Toxic Air Contaminant (TAC).

5

² California Air Resources Board. April 2005. "Air Quality and Land Use Handbook: A Community Health Perspective." Accessed at: <http://www.arb.ca.gov/ch/landuse.htm>

³ See Chapter 9 of the 2012 AQMP for further information at: [http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2012-air-quality-management-plan/final-2012-aqmp-\(february-2013\)/chapter-9-final-2012.pdf](http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2012-air-quality-management-plan/final-2012-aqmp-(february-2013)/chapter-9-final-2012.pdf).

Limits to the Effectiveness of Filters as Mitigation

2. In the Health Risk Assessment (HRA), the Lead Agency estimated residential cancer risk at 67.9 in one million, which exceeds the SCAQMD recommended threshold of significance of 10 in one million cases⁴. With mitigation, the Lead Agency has determined that risk from TAC to future residents would be reduced to less than the SCAQMD 10 in one million threshold, but the mitigated risk and supporting documentation is not included in the Draft MND. Because the proposed central heating, ventilation, and air conditioning (HVAC) and Minimum Efficiency Reporting Value (MERV) MERV 16 filters reduce particulate impacts but do not reduce impacts from TAC, the Lead Agency has not provided substantial evidence to support its determination that risk from toxic air contaminants are less than significant. This is particularly important since children and residents that are active outdoors over a period of time will be exposed daily to unmitigated particulates and TAC from nearby particulate and TAC sources. Therefore, risk from the TAC sources remains a significant impact and active, outdoor sensitive receptors are not protected from adverse air quality emission sources.

The SCAQMD staff recognizes that the Lead Agency has proposed mitigation measures to reduce significant cancer risk. MM AQ-2 includes the installation of HVAC systems in buildings that will utilize high efficiency filters for particulates and the relocation of outdoor active-use public recreation areas, the community center and the child care center as far north as possible, which would call for revision to the site plan included in the Draft MND⁵. It is unclear though if HVAC and MERV 16 or higher filters will be installed in the day care center building to help reduce filter particulate impacts considering the amount of time each day and the period of time (number of days per week, month, year, etc.) the children would spend inside the child care center building engaging in different activities. The Lead Agency is reminded that although mitigation has been proposed to address the adverse health impacts from the before-mention sources, it limitations of the proposed HVAC systems with the enhanced filtration (high efficiency filters for particulates should be considered on the housing residents or other sensitive receptors. For example, these filters have no ability to filter out any toxic gasses from vehicle exhaust. The presumed effectiveness and feasibility of this mitigation should therefore be evaluated in more detail prior to assuming that it will sufficiently alleviate near roadway and rail exposures. In addition, in a study that SCAQMD conducted to investigate filters⁶ similar to those proposed for this project, costs were expected to range from \$120 to \$240 per year to replace each filter. Next, because the filters would not have any effectiveness unless the HVAC system is running, there may be increased energy

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⁴ Maximum Incremental Cancer Risk (MICR).

⁵ Attachment A: Project Plans and Information, Site Plan Study – Scheme 24b.

⁶ <http://www.aqmd.gov/docs/default-source/ceqa/handbook/aqmdpilotstudyfinalreport.pdf?sfvrsn=0> . This study evaluated filters rated MERV 13+ while the proposed mitigation calls for less effective MERV 12 or better filters.

Mr. Aron Liang,
Senior Planner

5

March 10, 2016

costs to the resident. The proposed mitigation assumes that the filters operate 100 percent of the time while residents are indoors.

6
CONT

Health Risk Assessment

3. The AERMOD, HRA, and Hot Spots Analysis and Reporting Program (HARP) HARP-2 modeling input and output files were not included in the appendices. For the Final MND and for future CEQA documents, please send with the draft CEQA document all appendices and or technical documents related to the air quality and greenhouse gas analyses and electronic versions of all air quality modeling and health risk assessment files. These include original emission calculation spreadsheets and modeling files (not Adobe PDF files).

7

Without the electronic files, the SCAQMD staff was unable to determine where the receptors were placed in the model, e.g., on the property lines, the middle of the site, etc. Therefore, the risk to the sensitive receptors could not be verified.

4. The Draft MND estimated the cancer risks to the outdoor play areas of the school to be 3.67 in one million. This was based on an assumption of "recreational" exposure of four hours per day and 250 days per year. The SCAQMD staff does not recommend the use of different exposure parameters for recreation. The students at school likely will live in areas near the school and their exposure to TACs is not limited only to those hours. Therefore, the SCAQMD staff recommends revising the HRA to use 30 years, 350 days per year exposure duration to estimate the health risks to residents.

8

Compliance With SCAQMD Rule 1166

5. Under Existing Condition and Trends on page nine, the Lead Agency cites past uses on the property that included the use of pesticides and insecticides that has led to the preparation of a Draft Remedial Action Workplan (RAW) that will provide removal and proper disposal of the organochlorine pesticides (OCP) and polychlorinated biphenyls (PCB) impacted soils. The Draft RAW will include regulatory oversight by the California Department of Toxic Substances Control (DTSC) to remove the impacted soils from the site.

9

Should the Lead Agency encounter hydrocarbons during soil disturbance activities, the contaminated sites would be subject to SCAQMD Rule 1166 – Volatile Organic Compound Emissions from Decontamination of Soil and that compliance should be referenced in the Final MND.

10



EDMUND G. BROWN JR.
GOVERNOR

STATE OF CALIFORNIA
GOVERNOR'S OFFICE *of* PLANNING AND RESEARCH
STATE CLEARINGHOUSE AND PLANNING UNIT



KEN ALEX
DIRECTOR

March 11, 2016

Aron Liang
San Bernardino County
385 N. Arrowhead Avenue, 1st Floor
San Bernardino, CA 92415-0187

Subject: Las Terrazas Mixed - Use Affordable Housing Apartments and Childcare Project
SCH#: 2016021048

Dear Aron Liang:

The State Clearinghouse submitted the above named Mitigated Negative Declaration to selected state agencies for review. The review period closed on March 10, 2016, and no state agencies submitted comments by that date. This letter acknowledges that you have complied with the State Clearinghouse review requirements for draft environmental documents, pursuant to the California Environmental Quality Act.

Please call the State Clearinghouse at (916) 445-0613 if you have any questions regarding the environmental review process. If you have a question about the above-named project, please refer to the ten-digit State Clearinghouse number when contacting this office.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Morgan".

Scott Morgan
Director, State Clearinghouse

1

Document Details Report
State Clearinghouse Data Base

OPR
Page 2 of 2

SCH# 2016021048
Project Title Las Terrazas Mixed - Use Affordable Housing Apartments and Childcare Project
Lead Agency San Bernardino County

Type MND Mitigated Negative Declaration

Description The Las Terrazas Mixed Use Affordable Housing Apartments and Childcare Project (the Project) involves the construction of 112 multi-family homes for low and very low income households in the unincorporated portion of San Bernardino County, and near the City of Colton. The Project also includes the construction of a single-story Daycare Center and a Community Building. The daycare facilities would include one office, two classrooms, storage areas, and a teacher lounge/kitchen. The Project would require a General Plan amendment from Single Residential (RS) and Commercial General (CG) to Special Development-Residential (SD-Res). It would also require a Planned Development Permit, pursuant to County of San Bernardino Development Code requirements and standards.

Lead Agency Contact

Name Aron Liang
Agency San Bernardino County
Phone 909-387-0235 **Fax**
email
Address 385 N. Arrowhead Avenue, 1st Floor
City San Bernardino **State** CA **Zip** 92415-0187

Project Location

County San Bernardino
City Colton
Region
Lat / Long 34° 4' 9.764" N / 117° 20' 32.7" W
Cross Streets Valley Blvd. and Cypress Avenue
Parcel No. 0274-182-34, -43, -46
Township 1S **Range** 4W **Section** 19 **Base** Topo

Proximity to:

Highways I-10
Airports
Railways UPRR
Waterways Santa Ana River
Schools Colton HS
Land Use Single Residential (RS) and Commercial General (CG)

Project Issues Aesthetic/Visual; Agricultural Land; Air Quality; Archaeologic-Historic; Biological Resources; Drainage/Absorption; Economics/Jobs; Fiscal Impacts; Flood Plain/Flooding; Geologic/Seismic; Minerals; Noise; Population/Housing Balance; Public Services; Recreation/Parks; Schools/Universities; Sewer Capacity; Soil Erosion/Compaction/Grading; Solid Waste; Toxic/Hazardous; Traffic/Circulation; Vegetation; Water Quality; Water Supply; Landuse; Cumulative Effects

Reviewing Agencies Resources Agency; Department of Fish and Wildlife, Region 6; Department of Parks and Recreation; Department of Water Resources; California Highway Patrol; Caltrans, District 8; Department of Housing and Community Development; Air Resources Board; Native American Heritage Commission; Public Utilities Commission

Date Received 02/10/2016 **Start of Review** 02/10/2016 **End of Review** 03/10/2016

From: Joyce Steele

Feb. 28, 2016

600 Jackson St.

Colton, CA. 92324-1924

TO: JOSIE GONZALES,

San Bdn. Co. Super. 5th District

385 North Arrowhead Ave.

San Bdn., CA. 92415

ATTN: ARON LIANG, Senior Planner
County of San Bdn.
Land Use Services Dept.
385 N. Arrowhead Ave. 1st
San Bdn., CA. 92415-0187

Dear Josie, AND ARON LIANG

My father bought this property in 1951. I have lived here off and on since then , but my parents and grand-parents lived here until they passed away. I lived at 595 Cypress Ave. from 1978 until 1994 then moved here. My father passed in 1995. I inherited both pieces of property and now my son & grand children live at 595 Cypress Ave. The large lots give us so much priveacy and room so that we are not bothered by neighbors, yet we are always looking out for each other.

All of us in this area have lived here for 20 years or more. We have all seen how LOW INCOME HOUSEING AFFECTS THE NEIGHBORHOOD. The one on the northeast side of Mill St. & Rancho Ave. destroyed the little shopping center where Stater Bros. is located. Then the one across the street, on the west side of Ranch Ave. has added to the problems. This PROJECT; Las Terrazas Affordable Housing, Project No; P201500538 is so unfair to all of us hard working families, who pay our own taxes all of our lives, raise our own children without help from our GOVERNMENT WHO ISSUES MONEY TO LAZY PEOPLE THAT WON'T WORK AND SOME THAT ARE DRUGGIES WHO

ROB THE NEIGHBORHOOD FOR THEIR HABIT AND END UP ON THE STREETS
OF THE NEIGHBORHOOD!!!!!! It's to bad you don't build housing for our
VETERANS INSTEAD. THEN WE COULD HELP THEM.

WHY DON'T YOU ALL, PUT YOURSELF IN OUR SHOES? HOW WOULD YOU
LIKE THIS IN YOUR BACK YARD?????

2
CONT

Joyce Steele

P.S. I don't have a Computer that's
why I'm writing my complaint,

From: Patricia Gonzales <pattig92324@gmail.com>
Sent: Monday, March 07, 2016 7:17 PM
To: Liang, Aron; Flores, Daniel (BOS); Supervisor Gonzales
Subject: Project Number: P201500538 Las Terrazas

March 7, 2016

RE: Las Terrazas Affordable Housing Project

Project Number: P201500538

SUBJ: Arguments Against Proposal

Dear Mr. Liang,

Please do not put unsuspecting people's lives unnecessarily at risk in the guise of affordable housing. Once again are poor people not deemed to be worthy of a safe place to live? Will you disclose the inherent danger of the rail road tracks and the Calnev pipeline right alongside their new residence? How can you with a clear conscious, propose to include a child care center in the midst, knowing the location is a disaster waiting to happen?

It is morally reprehensible to build more homes in this area especially supposedly to help low income families and the elderly. The property should be zoned for light industrial if at all and resold. There is plenty of land here in Colton that is better suited for this project than the site that has been proposed.

We have listed four extremely valid arguments against this proposal. The first two should stand alone on their own merit. However if you choose to ignore the evidence which is readily verifiable, then we must ask, "What really is the price of affordable housing?"

1. Elevated Railroad Tracks: Union Pacific railroad runs numerous trains, many carrying hazardous materials, on the tracks every single day. The noise and vibration alone will lead to tenant turnover even if they do not recognize the peril that could befall them if a derailment occurred.
2. Calnev 14 inch High Pressure Gas Pipeline: This is the same pipeline that ruptured and exploded on May 25, 1989 on Duffy Street in San Bernardino. The Pipeline parallels the tracks here in Colton right where you want to build.
3. Location of Site: Valley Blvd. and Cypress floods terribly and is closed to through traffic (including the Omintrans bus) during and a day or two after substantial rain.
4. Elementary School: Paul J. Rogers and US Grant are already overcrowded, where will you place the school children?

Sincerely,

Patricia and Gilroy Gonzales

Cc: SupervisorGonzales@sbccounty.gov , Aron.Liang@lus.sbccounty.gov , dflores@sbccounty.gov

March 8TH, 2016

PHGONZALES

Page 1 of 2

Dear Aron Liang,
Re: Project N. J. P201500538
(The 112-unit affordable housing
project)

My name is Patrick Herman
Gonzales. I live at 395 Cypress
Ave. in Colton.

Long story as short as can be—
there is not one neighbor in this
area that would want to see this
low-income structure be built.

Every single residence touching
that property line would lose
all privacy in their own back
yard. Both parents and children.
The thought of 2 and 3 story
apartment structures on the other
side of the fence is absolutely
horrible.

Hundreds of more people. The
tenants, their visitors. The
traffic passing through.

Others coming for the day care
services (child)

20F2
AMCAL does not care about the impact it will bring to our area. There's only one thing on their mind. MONEY. Getting the contract, and getting paid.

Gosie Gonzales' only interest is generating more tax revenue.

We will accept single family homes to be built and sold.

Realistically, who in their right mind would choose to live next to an apartment complex, low-income housing, 3 stories high?

It is wrong to make us already living here suffer for the greed of others.

Sincerely,
Patrick H. Gonzales
Ph. (909) 825-1026

MR. RUBEN RAGUILAR 3-8-16
WROTE THIS LETTER BUT,
DIDNT HAVE TIME TO SIGN
IT.

HE PAST-AWAY 3-4-2016.
HIS NEIGHBORS FEEL
WE SHOULD MAIL IT IN
ON HIS BEHALF. THANK
YOU FOR YOUR CONSIDERATION
Jamen Willie

1

2016 MAR -9 PM 9:42

3

ON BEHALF OF "MR. RUBEN AUGULARA"

680 CYPRESS AVE

1. Mr & Mrs Patricia J. Salas CYPRESS RD
2. Valero Negrete CYPRESS AVE
3. Abby Salas CYPRESS AVE
4. Greg Espinosa 575 Cypress ave
5. Jose Espinosa 575 Cypress Ave Cotton
6. Betty J. Espinosa 575 Cypress ave
7. DAVID FURRY 595 CYPRESS AVE
8. James W Hill SR 615 CYPRESS AVE
9. Ruben Ontalaga JR. 1040 W. 9. ST. COTTON 1234

2

LAS TERRAZAS AFFORDABLE HOUSING PROJECT

Project No. P201300538

?? Why Can't this County area get what Need, Not what they Don't Need??

① I Received Another Correspondence in Private Company Envelope with/on County stationery - Land Use Services Department - Planning Division who is working for who? IS this ANOTHER Colony down fall!!

② Shouldn't this department be concentrating on services that this area has been on previous election Campaigning. These home owners have been contaminating our yards-soil and polluting the water with our septic systems. The time that has been spent on added headache should have been used to layout the Sewer Service for this County Area. It looks

③ Like these New Housing project will be getting Sewer Service before the long old property owners. IS there going to be enough Water Available from Terrace Water Co. At Times due to Repair the water pressure is

Minimum etc. ④ Why out of County Developers not County Developers Redevelopers come and make problems and leave a mess, Look what happened to City of Colton downtown Area. Palto & Redlands have not swallowed their Expectations they still have their busy downtowns. They know what happens

to the Developer's promises. Cypress Ave cannot handle any added Traffic. The number of Vehicles that Residents own that need to be parked in front of their property and across the st. Residing that leaves a space for

the traffic ie School Buses - Delivery Trucks. There is still Flooding at the Corner Cypress - Valley plus heavy Traffic due to Traffic problems on the Freeway. obtaining documents pertaining to Project - Double Track - Cover up on Loop Holes etc. Housing Projects & Apartments is often read in the News Media about unbearably Violent - shooting Crimes with or without Child Care Provisions. Let the Gangs Stay where they are - Not here

James W Hill SR
Tatiana J Salas

From: mccutchen glenn <glennmc1@yahoo.com>
Sent: Wednesday, March 09, 2016 9:30 AM
To: Liang, Aron
Subject: P201500538 Las Terrazas Affordable Housing Project

Aron Liang,

I **strongly oppose** this project. Partial reasons for this opposition is the negative effect on surrounding property values. The deterioration of the neighborhood, increased crime rate associated with low income housing.

This is just to mention a few concerns. I think this Project will be detrimental to the area. I also think it will over burden the local water company.

Thank You

Glenn McCutchen

909-644-6771
909-877-1072

1

From: Anna Jaiswal [mailto:Anna.Jaiswal@omnitrans.org]
Sent: Monday, March 21, 2016 10:53 AM
To: Liang, Aron <Aron.Liang@lus.sbcounty.gov>
Subject: NOA/NOI for FONSI/MND for Las Terrazas Affordable Housing Project

Hi Aron,

Sorry, I know I missed the comment period for the Las Terrazas housing project. But I was wondering if there could possibly be any accommodation for a bus stop to be put in in front of the property on Valley? Basically it would just mean the sidewalk would need to be connected to the curb to provide for an ADA-compliant boarding area, so we could move our bus stop there. Please let me know if that could be a possibility.

Thanks so much!

Anna

Anna Jaiswal, AICP
Development Planning Manager



Connecting Our Community
1700 West Fifth Street
San Bernardino, CA 92411
www.omnitrans.org
Work: 909-379-7256
Fax: 909-379-7258

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**Attachment B:
Revised Air Quality and Greenhouse Gas Assessment**

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REVISED AIR QUALITY AND GREENHOUSE GAS ASSESSMENT

**Las Terrazas Apartments and Services Center
Cypress Avenue and Valley Boulevard
Colton, California**

Prepared For

AMCAL Multi-Housing, Inc.
Attention: Jay Ross
30141 Agoura Road, Suite 100
Agoura Hills, California 91301
Phone: 818-706-0694 ext. 128
Fax: 818-889-9158

Prepared By

**Dr. Valorie L. Thompson
Scientific Resources Associated**

**On the behalf of
Eilar Associates, Inc.
Acoustical & Environmental Consulting**
210 South Juniper Street, Suite 100
Escondido, California 92025
www.eilarassociates.com
Phone: 760-738-5570
Fax: 760-738-5227

Job #B60117A2

April 5, 2016

Air Quality and Greenhouse Gas Assessment
for the
Las Terrazas Apartments and Services Center

Submitted To:

AMCAL Multi-Housing, Inc.
Attention: Jay Ross
30141 Agoura Road, Suite 100
Agoura Hills, California 91301
Phone: 818-706-0694 ext. 128
Fax: 818-889-9158

Prepared By:



Scientific Resources Associated
1328 Kaimalino Lane
San Diego, CA 92109
(858) 488-2987

April 5, 2016

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Appendix A CalEEMod Model Outputs

Appendix B AERMOD and HARP2 Health Risk Assessment Modeling Files

1.0 INTRODUCTION

This report presents an assessment of potential air quality and greenhouse gas (GHG) impacts associated with the proposed Las Terrazas Apartments and Services Center, a new apartment development at on a 6.14-acre lot located at 275-291 N. Cypress Avenue in unincorporated San Bernardino County. The proposed project involves the construction of 112 multi-family apartment units, including parking, at the site. The project will also include a 2,000-square foot community building and development of a 3,000 square foot child care center/neighborhood services building. The three parcels are currently vacant as the house that was located on the third parcel has been demolished.

Air quality and GHG impacts will be attributable to emissions associated with construction and operational emissions associated with traffic and energy use. This report presents an evaluation of existing conditions at the site, thresholds of significance, and potential air quality and GHG impacts associated with construction and operation of the project.

2.0 EXISTING CONDITIONS

2.1 Current Development

The project site is currently vacant and undeveloped.

2.2 Regulatory Setting

Air quality is defined by ambient air concentrations of specific pollutants identified by the United States Environmental Protection Agency (EPA) to be of concern with respect to health and welfare of the general public. The EPA is responsible for enforcing the Federal Clean Air Act (CAA) of 1970 and its 1977 and 1990 Amendments. The CAA required the EPA to establish National Ambient Air Quality Standards (NAAQS), which identify concentrations of pollutants in the ambient air below which no adverse effects on the public health and welfare are anticipated. In response, the EPA established both primary and secondary standards for several pollutants (called “criteria” pollutants). Primary standards are designed to protect human health with an adequate margin of safety. Secondary standards are designed to protect property and the public welfare from air pollutants in the atmosphere.

The CAA allows states to adopt ambient air quality standards and other regulations provided they are at least as stringent as federal standards. The California Air Resources Board (ARB) has established the more stringent California Ambient Air Quality Standards (CAAQS) for the six criteria pollutants through the California Clean Air Act of 1988, and also has established CAAQS for additional pollutants, including sulfates, hydrogen sulfide, vinyl chloride and visibility-reducing particles.

Areas that do not meet the NAAQS or the CAAQS for a particular pollutant are considered to be “nonattainment areas” for that pollutant. In September 1997, the EPA promulgated 8-hour O₃ and 24-hour and annual PM_{2.5} national standards. As a result, this action has initiated a new planning process to monitor and evaluate emission control measures for these pollutants. The South Coast Air Basin (SCAB) is classified as an extreme nonattainment area for the 8-hour NAAQS for O₃, and a nonattainment area for the NAAQS for PM_{2.5}. The SCAB is also

designated as a maintenance area for the NAAQS for CO and PM₁₀. The Los Angeles County portion of the SCAB has recently been classified as a nonattainment area for the NAAQS for NO₂ and lead. The SCAB is also considered a nonattainment area for the CAAQS for O₃, PM_{2.5}, and PM₁₀. The area is considered unclassified or attainment for all other NAAQS and CAAQS for the other criteria pollutants.

The ARB is the state regulatory agency with authority to enforce regulations to both achieve and maintain the NAAQS and CAAQS. The ARB is responsible for the development, adoption, and enforcement of the state's motor vehicle emissions program, as well as the adoption of the CAAQS. The ARB also reviews operations and programs of the local air districts, and requires each air district with jurisdiction over a nonattainment area to develop its own strategy for achieving the NAAQS and CAAQS. The local air district has the primary responsibility for the development and implementation of rules and regulations designed to attain the NAAQS and CAAQS, as well as the permitting of new or modified sources, development of air quality management plans, and adoption and enforcement of air pollution regulations. The South Coast Air Quality Management District (SCAQMD) is the local agency responsible for the administration and enforcement of air quality regulations for the SCAB.

The SCAQMD and the Southern California Association of Governments (SCAG) are responsible for developing and implementing the clean air plan for attainment and maintenance of the ambient air quality standards in the SCAB. The most recently adopted air quality plan in the SCAB is the 2012 Air Quality Management Plan (AQMP), which was adopted by the Board on December 7, 2012.

Table 1 presents a summary of the ambient air quality standards adopted by the federal and California Clean Air Acts.

Table 1
Ambient Air Quality Standards

POLLUTANT	AVERAGE TIME	CALIFORNIA STANDARDS		NATIONAL STANDARDS		
		Concentration	Method	Primary	Secondary	Method
Ozone (O ₃)	1 hour	0.09 ppm (176 µg/m ³)	Ultraviolet Photometry	--	--	Ethylene Chemiluminescence
	8 hour	0.070 ppm (137 µg/m ³)		0.075 ppm (147 µg/m ³)	0.075 ppm (147 µg/m ³)	
Carbon Monoxide (CO)	8 hours	9.0 ppm (10 mg/m ³)	Non-Dispersive Infrared Spectroscopy (NDIR)	9 ppm (10 mg/m ³)	--	Non-Dispersive Infrared Spectroscopy (NDIR)
	1 hour	20 ppm (23 mg/m ³)		35 ppm (40 mg/m ³)		
Nitrogen Dioxide (NO ₂)	Annual Average	0.030 ppm (56 µg/m ³)	Gas Phase Chemiluminescence	0.053 ppm (100 µg/m ³)	--	Gas Phase Chemiluminescence
	1 hour	0.18 ppm (338 µg/m ³)		0.100 ppm (188 µg/m ³)	--	
Sulfur Dioxide (SO ₂)	24 hours	0.04 ppm (105 µg/m ³)	Ultraviolet Fluorescence	--	--	Pararosaniline
	3 hours	--		--	0.5 ppm (1300 µg/m ³)	
	1 hour	0.25 ppm (655 µg/m ³)		0.075 ppm (196 µg/m ³)	--	
Respirable Particulate Matter (PM ₁₀)	24 hours	50 µg/m ³	Gravimetric or Beta Attenuation	150 µg/m ³	150 µg/m ³	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m ³		--	--	
Fine Particulate Matter (PM _{2.5})	Annual Arithmetic Mean	12 µg/m ³	Gravimetric or Beta Attenuation	12 µg/m ³	15 µg/m ³	Inertial Separation and Gravimetric Analysis
	24 hours	--		35 µg/m ³	35 µg/m ³	
Sulfates	24 hours	25 µg/m ³	Ion Chromatography	--	--	--
Lead	30-day Average	1.5 µg/m ³	Atomic Absorption	--	--	Atomic Absorption
	Calendar Quarter	--		1.5 µg/m ³	1.5 µg/m ³	
	3-Month Rolling Average	--		0.15 µg/m ³	0.15 µg/m ³	
Hydrogen Sulfide	1 hour	0.03 ppm (42 µg/m ³)	Ultraviolet Fluorescence	--	--	--
Vinyl Chloride	24 hours	0.010 ppm (26 µg/m ³)	Gas Chromatography	--	--	--

ppm= parts per million; µg/m³ = micrograms per cubic meter ; mg/m³= milligrams per cubic meter

Source: California Air Resources Board, www.arb.ca.gov, 2013

2.3 Background Air Quality

The SCAQMD operates a network of ambient air monitoring stations throughout the SCAB. The purpose of the monitoring stations is to measure ambient concentrations of the pollutants and determine whether the ambient air quality meets the CAAQS and the NAAQS. The nearest ambient monitoring station to the project site is the San Bernardino monitoring station located at on 4th Street, which is located approximately one mile from the project site. The San Bernardino monitoring station measures O₃, PM₁₀, PM_{2.5}, CO, and NO₂. The nearest monitoring station that measures SO₂ is located in Fontana. Ambient concentrations of pollutants over the last three years are presented in Table 2.

Table 2 Ambient Background Concentrations (ppm unless otherwise indicated)							
Pollutant	Averaging Time	2011	2012	2013	CAAQS	NAAQS	Monitoring Station
Ozone	8 hour	0.121	0.109	0.112	0.070	0.075	San Bernardino
	1 hour	0.135	0.124	0.139	0.090	--	San Bernardino
PM ₁₀	Annual	30.1	32.0	32.7	20 µg/m ³	--	San Bernardino
	24 hour	54	51	98	50 µg/m ³	150 µg/m ³	San Bernardino
PM _{2.5}	Annual	NA	11.7	11.4	12 µg/m ³	15 µg/m ³	San Bernardino
	24 hour	65.0	34.8	55.3	--	35 µg/m ³	San Bernardino
NO ₂	Annual	0.017	0.019	0.018	0.030	0.053	San Bernardino
	1 hour	0.062	0.067	0.072	0.18	0.100	San Bernardino
CO	8 hour	1.74	1.64	NA	9	9	San Bernardino
SO ₂	Annual	0.000	0.000	0.000	--	0.5 ¹	Fontana
	24 hour	0.003	0.004	0.001	0.25	0.075	Fontana

¹Secondary NAAQS

NA – Data not available

3.0 THRESHOLDS OF SIGNIFICANCE

The SCAQMD has adopted CEQA Guidelines (SCAQMD 1993), which provide guidance on the requirements for evaluating potential air quality impacts and on thresholds of significance under CEQA. The SCAQMD has identified numerical emission thresholds for significance for construction and operation for a project. The project-level numerical thresholds are summarized in Table 3.

Table 3 SCAQMD Significance Thresholds		
Pollutant	Construction	Operation
Criteria Pollutants Mass Daily Thresholds		
NO _x	100 lbs/day	55 lbs/day
ROG	75 lbs/day	55 lbs/day
PM ₁₀	150 lbs/day	150 lbs/day
PM _{2.5}	55 lbs/day	55 lbs/day
SO _x	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Lead	3 lbs/day	3 lbs/day
TAC, AHM, and Odor Thresholds		
Toxic Air Contaminants (TACs)	Maximum Incremental Cancer Risk ≥ 10 in 1 million Cancer Burden > 0.5 (in areas ≥ 1 in a million) Chronic and Acute Hazard Index ≥ 1.0 (project increment)	
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402	
GHG	10,000 MT/yr CO ₂ eq for industrial facilities	
Ambient Air Quality for Criteria Pollutants		
NO2 1-hour average Annual arithmetic mean	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards 0.18 ppm (state) 0.03 ppm (state) and 0.0534 ppm (federal)	
PM10 24-hour average annual geometric mean	10.4 µg/m ³ construction & 2.5 µg/m ³ operation 1.0 µg/m ³	
PM2.5 24-hour average	10.4 µg/m ³ construction & 2.5 µg/m ³ operation	
SO2 1-hour average 24-hour average	0.25 ppm (state) & 0.075 ppm (federal – 99 th percentile) 0.04 ppm (state)	
Sulfate 24-hour average	25 µg/m ³ (state)	
CO 1-hour average 8-hour average	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards 20 ppm (state) and 35 ppm (federal) 9.0 ppm (state/federal)	

Table 3 SCAQMD Significance Thresholds		
Pollutant	Construction	Operation
Lead		
30-day average	1.5 µg/m ³ (state)	
Rolling 3-month average	0.15 µg/m ³ (federal)	
Quarterly average	1.5 µg/m ³ (federal)	

µg/m³ = microgram per cubic meter; pphm = parts per hundred million; mg/m³ = milligram per cubic meter; ppm = parts per million; TAC = toxic air contaminant; AHM = Acutely Hazardous Material

To further evaluate the potential for significant impacts associated with the project, the SCAQMD's *Final Localized Significance Threshold Methodology* (SCAQMD 2003) can be considered to evaluate whether a project's emissions could cause a localized exceedance of an ambient air quality standard. The Localized Significance Threshold (LST) Methodology provides a look-up table for construction and operational emissions based on the emission rate, location, and distance from receptors, and provides a methodology for air dispersion modeling to evaluate whether a construction or operation could cause an exceedance of an ambient air quality standard. The LST lookup tables are applicable only to sources that are five acres or less in size. A screening air dispersion modeling approach was therefore used to assess the significance of localized construction impacts on receptors in the project vicinity. The LST Methodology only applied to impacts to NO₂, CO, PM_{2.5}, and PM₁₀ concentrations, and tables have been updated as of 2009 (SCAQMD 2009).

According to the LST Methodology, the project is located in Source Receptor Area 34, the Central San Bernardino area. LSTs for the Project are shown in Table 4, based on the size of the site and the distance to the nearest receptor.

The site is approximately 6.14 acres in size. Based on a review of the site location and aerial maps of the vicinity, the distance to the nearest receptor is estimated to be 50 meters. For conservative purposes, the LSTs for a 5-acre site and 50-meter distance were used to evaluate the potential significance of impacts.

Table 4 Localized Significance Thresholds, lbs/day						
Distance to Nearest Receptor, meters	Pollutant					
	NOx	CO	PM ₁₀ - Construction	PM ₁₀ - Operation	PM _{2.5} - Construction	PM _{2.5} - Operation
5 acres						
50	302	2,396	44	11	10	3

The impacts associated with construction and operation of the project were evaluated for significance based on these significance criteria.

4.0 IMPACTS

The proposed Project includes both construction and operational impacts. Construction impacts include emissions associated with site grading/preparation, utilities installation, construction of buildings, and paving. Operational impacts include emissions associated with the project, including traffic, at full buildout.

4.1 Construction

Emissions of pollutants such as fugitive dust that are generated during construction are generally highest near the construction site. Emissions from the construction phase of the project were estimated through the use of the CalEEMod Model (ENVIRON 2013). Prior to the start of project construction, the site will undergo remediation activities to remove contamination. Remediation is anticipated to last no more than 7 days. Construction is anticipated to be carried out in three main phases. The first phase of construction involves site preparation and utilities installation. The second phase of construction involves laying the slab and associated paving activities at the site. The third phase of construction involves construction of the building, along with architectural coatings application. It was assumed that the entire construction project would be completed within 12 months. It was assumed that architectural coatings application would occur during the last three months of building construction. It was assumed that heavy construction equipment would be operating at the site for eight hours per day, five days per week during project construction. It was assumed that, in accordance with the requirements of the SCAQMD Rule 403, fugitive dust controls would be utilized during construction, including watering of active sites three times daily.

For the purpose of estimating emissions from the application of architectural coatings, it was assumed that water-based coatings that would be compliant with SCAQMD Regulations would be used for both exterior and interior surfaces. Within the CalEEMod Model, this assumption was included by assuming that the architectural coating emissions would have a VOC content of 150 grams per liter for nonresidential coatings and 100 grams per liter for residential coatings.

Table 5 provides a summary of the emission estimates for construction of the proposed project, assuming standard measures are implemented to reduce emissions, as calculated with the CalEEMod Model. Refer to Appendix A for detailed model output files. As shown in the tables, emissions associated with construction are below the significance thresholds for all construction phases and pollutants. Construction of the project would be short-term and temporary. Thus the emissions associated with construction would not result in a significant impact on the ambient air quality. Because emissions are less than the significance levels, they would not conflict or obstruct the implementation of the AQMP or applicable portions of the SIP.

Project construction would also not result in emission of any odor compounds that would cause a nuisance or significant impact to nearby receptors. The impacts associated with Project construction are therefore not considered significant.

Table 5						
Estimated Construction Emissions						
Emission Source	ROG	NO_x	CO	SO_x	PM₁₀	PM_{2.5}
lbs/day						
<i>Remediation</i>						
Fugitive Dust	-	-	-	-	0.38	0.04
Offroad Diesel	0.68	6.51	4.83	0.01	0.50	0.46
	0.09	1.38	0.97	0.00	0.11	0.04
Worker Travel	0.16	0.20	2.53	0.01	0.44	0.12
TOTAL	0.93	8.09	8.33	0.02	1.43	0.66
Significance Criteria	75	100	550	150	150	55
Localized Significance Criteria	N/A	302	2,396	N/A	44	10
<i>Significant?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>
<i>Site Preparation/Utilities</i>						
Fugitive Dust	-	-	-	-	2.41	1.30
Offroad Diesel	3.83	40.42	26.67	0.03	2.33	2.14
Worker Travel	0.07	0.09	1.07	0.002	0.17	0.05
TOTAL	3.90	40.51	27.74	0.03	4.91	3.49
Significance Criteria	75	100	550	150	150	55
Localized Significance Criteria	N/A	302	2,396	N/A	44	10
<i>Significant?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>
<i>Paving</i>						
Asphalt Offgassing	0.00	-	-	-	-	-
Offroad Diesel	2.32	25.18	14.98	0.02	1.41	1.30
Onroad Diesel	0.09	0.98	1.08	0.002	0.09	0.03
Worker Travel	0.07	0.09	1.07	0.002	0.17	0.05
TOTAL	2.48	26.25	17.13	0.02	1.67	1.38
Significance Criteria	75	100	550	150	150	55
Localized Significance Criteria	N/A	302	2,396	N/A	44	10

Table 5
Estimated Construction Emissions

Emission Source	ROG	NOx	CO	SO_x	PM₁₀	PM_{2.5}
lbs/day						
<i>Significant?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>
<i>Building Construction</i>						
Building Offroad Diesel	3.66	30.03	18.74	0.03	2.12	1.99
Building Vendor Trips	0.12	1.28	1.41	0.003	0.16	0.06
Building Worker Travel	0.38	0.47	5.87	0.01	0.97	0.04
TOTAL	4.16	31.78	26.02	0.04	3.25	2.09
Significance Criteria	75	100	550	150	150	55
Localized Significance Criteria	N/A	302	2,396	N/A	44	10
<i>Significant?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>
<i>Architectural Coatings Application</i>						
Architectural Coatings Offgassing	14.97	-	-	-	-	-
Architectural Coatings Offroad Diesel	0.41	2.57	1.90	0.003	0.22	0.22
Architectural Coatings Worker Travel	0.07	0.09	1.15	0.002	0.18	0.05
TOTAL	15.45	2.66	3.05	0.005	0.40	0.27
Significance Criteria	75	100	550	150	150	55
Localized Significance Criteria	N/A	302	2,396	N/A	44	10
<i>Significant?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>
MAXIMUM SIMULTANEOUS CONSTRUCTION EMISSIONS	19.61	40.50	29.08	0.05	4.91	3.49
Significance Criteria	75	100	550	150	150	55
Localized Significance Criteria	N/A	302	2,396	N/A	44	10
<i>Significant?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>

4.2 Operational Impacts

The main operational impacts associated with the Project would be impacts associated with traffic. Minor impacts would be associated with energy use and landscaping. To address whether the Project would result in emissions that would violate any air quality standard or contribute substantially to an existing or proposed air quality violation, the emissions associated with Project-generated traffic and area sources were compared with the SCAQMD's quantitative significance criteria. The trip generation rates were based on the Traffic Impact Analysis (Linscott, Law & Greenspan 2015). The CalEEMod Model contains emission factors from the EMFAC2011 model, which is the latest version of the Caltrans emission factor model for on-

road traffic. Project-related traffic was assumed to be comprised of a mixture of vehicles in accordance with the CalEEMod Model default outputs for traffic. This assumption includes light duty autos and light duty trucks (i.e., small trucks, SUVs, and vans) as well as medium- and heavy-duty vehicles that may be traveling to the facility to make deliveries. For conservative purposes, emission factors representing the vehicle mix for 2016 were used to estimate emissions as 2016 was assumed to be the first year of full operation; based on the results of the EMFAC2011 model for subsequent years, emissions would decrease on an annual basis from 2016 onward due to phase-out of higher polluting vehicles and implementation of more stringent emission standards that are taken into account in the EMFAC2011 model. Emissions associated with area sources (energy use and landscaping activities) were also estimated using the default assumptions in the CalEEMod Model.

Table 6 presents the results of the emission calculations in lbs/day, considering the project's design features listed above, along with a comparison with the significance criteria. It should be noted that according to the SCAQMD's LST Methodology, only on-site emissions should be evaluated versus the significance thresholds. No mitigation measures were assumed in the analysis.

Table 6						
Estimated Operational Emissions						
Emission Source	ROG	NOx	CO	SO_x	PM₁₀	PM_{2.5}
Summer, lbs/day						
Area Sources	2.88	0.11	9.37	0.00	0.05	0.05
Energy Use	0.05	0.42	0.18	0.003	0.03	0.03
Vehicular Emissions	3.51	9.41	39.24	0.09	6.21	1.75
TOTAL	6.44	9.94	48.79	0.09	6.29	1.83
Significance Criteria	55	55	550	150	150	55
TOTAL ONSITE EMISSIONS	2.93	0.53	9.56	0.00	0.08	0.08
Localized Significance Criteria	N/A	302	2,396	N/A	11	3
<i>Significant?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>
Winter, lbs/day						
Area Sources	2.88	0.11	9.37	0.00	0.05	0.05
Energy Use	0.05	0.42	0.18	0.003	0.03	0.03
Vehicular Emissions	3.64	9.90	38.75	0.09	6.21	1.75
TOTAL	6.57	10.43	48.31	0.09	6.29	1.83
Significance Criteria	55	55	550	150	150	55
TOTAL ONSITE EMISSIONS	2.93	0.53	9.56	0.00	0.08	0.08
Localized Significance Criteria	N/A	302	2,396	N/A	11	3
<i>Significant?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>

Based on the estimates of the emissions associated with project operations, the emissions are below the significance criteria for all pollutants. Because emissions are less than the significance levels, they would not conflict or obstruct the implementation of the AQMP or applicable portions of the SIP. It should be noted that the emissions from vehicles are projected to decrease with time due to phase-out of older, more polluting vehicles and increasingly stringent emissions standards.

Projects involving traffic impacts may result in the formation of locally high concentrations of CO, known as CO “hot spots.” The Traffic Impact Analysis did not predict any significant impacts to study intersections in the project vicinity due to project-related traffic. The intersections in the project area would therefore operate at an acceptable LOS and would not experience CO “hot spots” because traffic congestion would not result.

4.3 Toxic Air Contaminant Impacts

As discussed in Section 3.0, air quality regulators typically define sensitive receptors as schools (Preschool-12th Grade), hospitals, resident care facilities, or day-care centers, or other facilities that may house individuals with health conditions that would be adversely impacted by changes in air quality. Residential land uses may also be considered sensitive receptors.

The residential use proposed for the project would not be sources of TACs. However, the project is located north of the Interstate 10 Freeway, and adjacent to a Union Pacific rail line. South of the freeway is the CalPortland Quarry and cement facility. Both trucks traveling on the freeway and locomotives traveling on the Union Pacific rail line are a source of diesel particulate matter emissions, which is categorized as a toxic air contaminant by the state of California. In addition, the CalPortland operation is a source of toxic air contaminants, including organic compounds and metals.

The rail line is used exclusively for freight. It was assumed that freight traffic would result in two daily trips on the line. Train locomotive diesel particulate matter emissions were calculated

based on U.S. EPA's locomotive emission factors (USEPA 2009). For the purpose of representing a scenario based on residential exposure, it was assumed, as a worst case, that residents at the Las Terrazas Apartments and Services Center project could be exposed to rail emissions for a period of 70 years. To evaluate an average exposure, the 9-year exposure scenario for both children and adults was used.

To evaluate emissions from trucks, diesel particulate matter (DPM) emitted from trucks traveling along the segment of Interstate 10 nearest to the project were evaluated. DPM is the risk-driving substance emitted from vehicles, and has been identified by the state of California as a carcinogenic compound.

The first step in the analysis was to evaluate emissions associated with traffic on the Interstate 10 segment near the project. Estimated annual daily trips (ADT) on the segment adjacent to the project site were obtained from the Caltrans website (Caltrans 2013) for the segment of Interstate 10 between Pepper Avenue and Mount Vernon Avenue in Colton. The estimated number of truck trips on the segment of Interstate 10 is 19,400 average daily trips (ADT). Of the 19,400 trips, Caltrans data indicates that 4,753 ADT would be 2-axle trucks, 1,746 ADT would be 3-axle trucks, and 12,895 ADT would be 4+-axle trucks.

Table 7 presents a summary of the ADT for the segment of Interstate 10 adjacent to the project site.

Table 7 I-10 Traffic Projections Average Daily Trips				
Total Traffic, ADT	Total Truck Traffic, ADT	2-Axle Trucks, ADT	3-Axle Trucks, ADT	4+-Axle Trucks, ADT
194,000	19,400	4,753	1,746	12,895

Mobile source emission factors were modeled using the Emission Factors (EMFAC2014) Model (ARB 2014). The analysis utilized emissions for the South Coast Air Basin, for medium duty

trucks to represent 2-axle trucks (MDV), medium-heavy trucks for 3-axle trucks (T6), and heavy-heavy trucks for 4-axle trucks (T7).

The U.S. EPA's approved air dispersion model, AERMOD (U.S. EPA 2009), was used to estimate the downwind impacts at the closest receptors to the construction site. The model was run using preprocessed meteorological data from the Fontana surface meteorological monitoring station provided by the South Coast Air Quality Management District. Risks were estimated using the Office of Environmental Health Hazard Assessment (OEHHA)'s guidance, which takes into account the sensitivity of children during developmental years (OEHHA 2015).

Exposure through inhalation is a function of the respiration rate and the concentration of a substance in the air and is calculated by using the following formulas (OEHHA 2015):

$$\text{Risk} = \text{Dose Inhalation} \times \text{CPF} \times \text{ASF}$$

where:

Age Sensitivity Factor (ASF) = described below

Inhalation cancer potency factor (CPF) = 1.1 (milligram per kilogram per day)⁻¹ (for Diesel Particulate Matter [DPM])

Dose Inhalation = $C_{\text{air}} \times \text{DBR} \times A \times \text{EF} \times \text{ED} \times 10^{-6} / \text{AT}$ (Equation 2)

where:

C_{air} = concentration in microgram per cubic meter

DBR = breathing rate in liter per kilogram of body weight per day (Per OEHHA 2015)

A = inhalation absorption factor (1 for DPM)

EF = exposure frequency in days per year (250 days)

ED = exposure duration in years (30 years)

AT = averaging time period over which exposure is averaged in days (25,550 days for 70 years)

For modeling purposes, the values suggested by the OEHHA Guidance were used for the dose inhalation calculation. These values take into account the increased sensitivity of children during the third trimester, ages 0 to 2, and ages 2 to 16, by applying an age sensitivity factor for each period. Daily breathing rates for each of the time periods considered were used to calculate risk. A lifetime exposure period of 30 years was evaluated per OEHHA guidance. Average emissions associated with traffic on the I-10 segment were estimated by averaging the EMFAC2014 emission calculations over the 30-year period for which the HRA calculations were conducted.

To accurately represent the spatial distributions of emissions and capture high concentrations that often occur next to roadways, the analysis utilized link-based emissions as recommended by the U.S. Environmental Protection Agency (EPA 2002). Roadway segments were modeled as a series of volume sources as recommended in the South Coast Air Quality Management District's *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis* (SCAQMD 2003), which recommends using multiple, adjacent volume sources to simulate a roadway. The analysis was conducted in accordance with the *Supplemental Guidelines for Submission of Air Toxics "Hot Spots" Program Health Risk Assessments (HRAs)* (SDAPCD 2006) and the OEHHA's *Guidance Manual for Preparation of Health Risk Assessments* (OEHHA 2015).

Because the emission factors provided are based on grams per vehicle mile traveled, emissions were allocated to the individual volume sources used to represent the I-10 freeway segment. The volume source dimensions were 25 meters by 25 meters; therefore, each volume represents 0.0155 mile of vehicle travel per volume source. Emission estimates on a per 25 meter by 25 meter source are summarized in Table 8. Detailed emission calculations are provided in Appendix A.

Table 8 Emission Estimates – Interstate 10 Segment Traffic				
Scenario	2-Axle Truck Diesel Particulate Emissions, lbs/year	3-Axle Truck Diesel Particulate Emissions, lbs/year	4+-Axle Truck Diesel Particulate Emissions, lbs/year	Total Diesel Particulate Emissions, lbs/year

	per source	per source	per source	per source
30-year exposure	0.155	0.049	0.644	0.848

In addition to the emissions from rail and trucks, emissions for the CalPortland quarry operation were obtained from the ARB's emissions inventory website. Emissions were based on an average of 2007 and 2008 data, and are shown in Table 9. These emissions were included in the AERMOD model as a volume source placed at the quarry.

Table 9 Toxic Air Contaminant Emissions - CalPortland			
POLLUTANT	2007 EMISSIONS, LBS/YR	2008 EMISSIONS, LBS/YR	AVERAGE EMISSIONS, LBS/YR
1,3-Butadiene	7.84	0.41305	4.126525
Acetaldehyde	2.56	2.56	2.56
Acrolein	0.346	0.346	0.346
Arsenic	0.154	0.30642	0.23021
Benzene	331.3	268.2542554	299.7771277
Beryllium	0	0.04098	0.02049
Cadmium	48.564	40.6972	44.6306
Copper	0.01	0.01	0.01
Cr(VI)	0.033	0.13668	0.08484
Ethyl Benzene	0.88	0.88	0.88
Formaldehyde	16730.75	11673.01848	14201.88424
HCl	0.52	0.52	0.52
Hexane	0.62	0.62	0.62
Lead	3.395	2.50789	2.951445
Manganese	0.009	0.009	0.009
Mercury	0.006	0.006	0.006
NH3	1962.87	1046.23	1504.55
Naphthalene	0.079	0.07454	0.07677
Nickel	17.034	14.22335122	15.62867561
PAHs-w/o	4.889	2.64868	3.76884
Selenium	0.006	0.006	0.006
Toluene	3.59	3.59	3.59
Xylenes	2.56	2.56	2.56

The AERMOD air dispersion model was used to calculate ground-level concentrations at the Las Terrazas Apartments and Service Center site associated with emissions of TACs from the freeway, rail line, and CalPortland operations. Surface and upper air profiler meteorological data from the Riverside meteorological monitoring station were used in the AERMOD model. the CalPortland facility does not operate 24 hours per day. According to CalPortland¹, the facility commences operation at 4:30 am and ceases operation at 4:00 pm. The AERMOD modeling analysis on which the health risk assessment calculations were based originally assumed a 24-hour per day operation. The hours of operation have been adjusted within the AERMOD model

¹ Telephone call with CalPortland Colton facility, March 31, 2016.

using scaling factors to account for CalPortland's actual operations (assuming 12 hours per day from 4 am to 4 pm). Because actual stack parameters for the point source are not known, the analysis was conservatively based on the volume source representation for all emissions. Table 1 presents the results of the updated health risk calculations.

The applicant understands that the MERV16 filters will not control emissions of gaseous toxic air contaminants (TACs).

The high-end excess cancer risk was calculated based on guidance from the Office of Environmental Health Hazard Assessment (OEHHA 2015). The risks were calculated using the HotSpots Assessment and Reporting Program 2 (HARP2) for excess cancer risks and chronic non-cancer hazards. AERMOD and HARP2 output files are provided in Appendix B.

Cancer Risk

Table 10 presents a summary of the excess cancer risks calculated for the project based on the 30-year exposure scenario. The results of the health risk calculations indicate that the risks are driven by exposure to diesel particulate matter from the Interstate 10 freeway. According to the SCAQMD's MATES IV study, diesel particulate matter is the risk-driving chemical within the SCAB, with the average population-weighted risk within the air basin of 897 in a million using the OEHHA 2015 guidelines based on monitoring data (SCAQMD 2015). Given that the MATES IV study shows that excess cancer risks for the region are above the level predicted for the Las Terrazas Apartments and Services Center project, the results of the health risk calculations are consistent with the MATES IV study. Because the project does not have control over emissions from the Interstate 10 freeway, and because existing sensitive receptors are exposed to the same levels of DPM emissions from the freeway as the project would be, impacts are below with the background risk levels reported in the MATES IV study.

Table 10 Health Risk Assessment Results – Excess Cancer Risk	
30-year exposure scenario	59.6 in a million

Non-Cancer Risk

The highest non-cancer chronic risk is predicted to be 0.078, indicating that no adverse non-cancer health effects are anticipated. The risks are below the SCAQMD's significance threshold of 1.0.

Mitigation Measures

As discussed above, the lifetime cancer risks are below the background cancer risks reported in the MATES IV study. However, the risks are above the SCAQMD's significance threshold of 10 in a million. It should be noted that this significance threshold is generally applied to impacts from projects that emit TACs, rather than to projects that would experience a cumulative risk from background sources such as the I-10 freeway and rail operations.

Mitigation Measure MM-AQ1 will be implemented to reduce risks to residents in the development to below the SCAQMD's threshold of 10 in a million.

- **Mitigation Measure MM-AQ1:** The buildings will be equipped with a central heating, ventilation, and air conditioning (HVAC) system that includes high efficiency filters for particulates (Minimum Efficiency Reporting Value [MERV] 16) or other similarly effective systems. Any windows within a 500' distance to I-10 and facing the freeway are required to be fixed. However, if there is a requirement for emergency egress for a particular space facing I-10, then it can be operable. The site will include tree plantings between residential dwellings and the freeway.

Exposure to particulate toxics drives the risk results for the project. Studies indicate that MERV16 filters are 95 to 98 percent effective in removing diesel particulate and other

particulates from the air^{2 3 4}. Given that the greatest contributions from the risk in the health risk assessment are from diesel particulate matter from the freeway and rail line, and from the CalPortland facility, the risks would be reduced by 95% to a maximum residential risk of 3.395 in a million, which is below the SCAQMD's significance threshold of 10 in a million. Both the residential units and the day care center will be equipped with MERV16 filters. Accordingly, risks to residents and the day care center will be reduced to below the SCAQMD's level of significance.

The project will also include a sound wall and vegetation along the wall. A study conducted by the USEPA⁵ indicates that a wall of vegetation may reduce particulate concentrations behind the wall by 15 to 50 percent. Accordingly, the actual concentration of diesel particulate matter to which residents of the development would be exposed is lower than predicted by the models used in the screening analysis, and risks would be reduced.

Based on the control efficiency of MERV16 filters, particulate pollutants (diesel particulate matter and metals emitted from the CalPortland operation), were assumed to be controlled with a 95% control efficiency for the MERV16 filters. It was assumed that the gaseous TACs under the mitigated scenario would not be controlled by the MERV16 filters.

Table 11 below presents a summary of the contribution of risks from TACs that are particulates versus TACs that are in gaseous form. As shown in Table 11, with mitigation, the risks are below the SCAQMD's significance threshold of 10 in a million at all locations on the property site, including the day care center. The maximum cancer risk with mitigation will be 7.38 in a million. The analysis is based on the HARP2 model, assuming a 30-year residential exposure scenario.

² Camfil Farr. 2002. ASHRAE Testing for HVAC Air Filtration A Review of Standards 52.1-1992 & 52.2-1999

³ ASHRAE. 2015. *Guideline 24-2015 – Ventilation and Indoor Air Quality in Low-Rise Residential Buildings*.

⁴ Noll, J., Cecala, A., and Organiscak, J. 2012. *The effectiveness of several enclosed cab filters and systems for reducing diesel particulate matter*. Trans. Soc. Min. Metal Explor. TP-11-008, 330:408-415.

⁵ Baldauf, R., E. Thoma, A. Khlystov, V. Isakov, G. Bowker, T. Long, R. Snow. 2008. *Impacts of Noise Barriers on Near-Road Air Quality*. Atmospheric Environment 42, 7502-7507.

Table 11	
Health Risk Assessment Results – Excess Cancer Risk with Mitigation	
30-year exposure scenario	7.38 in a million

In addition to calculating risks associated with the residential exposure scenario at residences and the day care center, health risks were calculated for the outdoor recreation areas identified on the project plot plan. The HARP2 risk assessment results are based on the OEHHHA-recommended risk scenario that addresses residential exposure. Under OEHHHA guidance, the residential scenario assumes that an individual would be present in the exposure location 24 hours per day, 350 days per year, for 30 years. The exposure scenario includes age sensitivity factors that calculate the risks during childhood exposure. The residential scenario is highly conservative for a recreational exposure scenario that would be appropriate for the tot lots and outdoor recreational space. In their *Exposure Factors Handbook* health risk assessment guidance document (U.S. EPA 2011), the U.S. EPA has collected data on the amount of time spent outdoors by children in a schoolyard or playground. According to the U.S. EPA, the 90th percentile time spent outdoors at playgrounds/school yards for all children was 210 minutes (3.5 hours), and the 90th percentile time spent outdoors at playgrounds/school yards for children aged 1 to 4 was 175 minutes (2.9 hours). For conservative purposes at the outdoor recreation areas, this value was rounded up to 4 hours per day, 250 days per year. The exposure scenario used to calculate the risks was not adjusted from a 30-year exposure scenario. Table 12 presents the estimated outdoor health risks at the recreational areas on site.

Table 12					
Estimated Health Risks at Outdoor Recreational Areas					
UTME	UTMN	Receptor No.	Description	Cancer Risk Residential Exposure Scenario	Cancer Risk Recreational Exposure Scenario
468405	3769892	9	Tot lot outside day care center	45.8 in a million	5.45 in a million
468380	3769917	13	Community pool	38.5 in a million	4.59 in a million
468380	3769942	18	Tot lot outside pool	33.5 in a million	3.98 in a million
468330	3769992	26	Community open space	27.3 in a million	3.25 in a million
468330	3770017	29	Tot lot/dog park	24.8 in a million	2.96 in a million

With the implementation of these recommended measures, the design of the proposed multi-family project would help reduce the potential health risk impacts of future residences and the day care center from the exposure to vehicle emissions from the I-10 freeway.

4.4 Odors

During construction, diesel equipment operating at the site may generate some nuisance odors; however, due to the distance of sensitive receptors to the project site and the temporary nature of construction, odors associated with project construction would not be significant.

Land uses associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting activities, refineries, landfills, dairies, and fiberglass molding operations. These land uses are not proposed for the Las Terrazas Apartments and Services Center. Odor impacts would not be significant.

5.0 GREENHOUSE GAS EVALUATION

According to the California Natural Resources Agency⁶, “due to the global nature of GHG emissions and their potential effects, GHG emissions will typically be addressed in a cumulative impacts analysis.” According to Appendix G of the CEQA Guidelines, the following criteria may be considered to establish the significance of GCC emissions:

Would the project:

- Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?
- Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

As discussed in Section 15064.4 of the CEQA Guidelines, the determination of the significance of greenhouse gas emissions calls for a careful judgment by the lead agency, consistent with the provisions in Section 15064. Section 15064.4 further provides that a lead agency should make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate the amount of GHG emissions resulting from a project. A lead agency shall have discretion to determine, in the context of a particular project, whether to:

(1) Use a model or methodology to quantify greenhouse gas emissions resulting from a project, and which model or methodology to use. The lead agency has discretion to select the model or methodology it considers most appropriate provided it supports its decision with substantial evidence. The lead agency should explain the limitations of the particular model or methodology selected for use; and/or

(2) Rely on a qualitative analysis or performance based standards.

Section 15064.4 also advises a lead agency to consider the following factors, among others, when assessing the significance of impacts from greenhouse gas emissions on the environment:

⁶ California Natural Resources Agency, Initial Statement of Reasons for Regulatory Action, Proposed Amendments to the State CEQA Guidelines Addressing Analysis and Mitigation of Greenhouse Gases Pursuant to SB 97. July 2009.

- (1) The extent to which the project may increase or reduce greenhouse gas emissions as compared to the existing environmental setting;
- (2) Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project; and
- (3) The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of greenhouse gas emissions.

According to the ARB's Scoping Plan, AB 32's goal of reducing GHGs to 1990 levels by 2020 would amount to an approximate 28.35% reduction in emissions below "business as usual" levels, accounting for growth in the state of California. "Business as usual" is defined as the emissions that would have occurred in the absence of reductions mandated under AB 32. Based on the latest guidelines and baseline emission calculations, for energy efficiency, "business as usual" is considered to be the equivalent of being as energy efficient as Title 24 requires as of 2005. The potential for significant impacts to global climate for the project were therefore evaluated on the basis of the project's consistency with the goals of AB 32 to reduce GHG emissions to 1990 levels by 2020, and to implement those programs that will be required under AB 32 that are applicable to the Las Terrazas Project.

In addition to the threshold listed above, to provide guidance to local lead agencies on determining significance for GHG emissions in their CEQA documents, the SCAQMD staff has established a GHG CEQA Significance Threshold Working Group. Members of the working group include government agencies implementing CEQA and representatives from various stakeholder groups that will provide input to the SCAQMD staff on developing GHG CEQA significance thresholds.

On December 5, 2008, the SCAQMD Governing Board adopted the staff proposal for an interim GHG significance threshold for projects where the SCAQMD is lead agency. On September 28, 2010, the SCAQMD has recommended a threshold of 3,000 metric tons of CO₂e as a Tier 3 threshold for all residential and commercial land uses under CEQA. For the purpose of this

evaluation, a threshold of 3,000 metric tons of CO₂e is used to assess significance of greenhouse gas emissions.

Based on the results of the CalEEMod Model, the project would generate a total of 5 metric tons of CO₂e during remediation activities, and 423 metric tons of CO₂e emissions during construction for a total of 427 metric tons of CO₂e. The SCAQMD recommends amortizing construction emissions over a period of 30 years to estimate the contribution of construction emissions to operational emissions over the project lifetime. Amortized over 30 years, the construction of the Project will generate 14 metric tons of CO₂e on an annualized basis.

Based on the results of the CalEEMod Model, the project would generate a total of 1,393 metric tons of CO₂e emissions for operations. Adding the amortized construction emissions results in an estimate of 1,407 metric tons of CO₂e emissions. This level is below the SCAQMD's Tier 3 threshold of 3,000 metric tons of CO₂e emissions for residential and commercial land uses. The project's GHG emissions would therefore be less than significant.

6.0 CONCLUSIONS

The air quality and GHG analysis for the Las Terrazas Apartments and Services Center proposed in unincorporated San Bernardino County evaluated emissions associated with both the construction and operation of the project. Emissions associated with construction and operation were compared with significance thresholds developed by the SCAQMD, which provide a conservative means of evaluating whether project emissions would cause a significant impact on the ambient air quality or whether further evaluation is warranted. Emissions associated with construction and operation are below the significance thresholds for all phases and pollutants. Thus the emissions associated with construction and operation of the project would not result in a significant impact on the ambient air quality.

Impacts to sensitive receptors were evaluated based on the project's potential to emit toxic air contaminants that would expose sensitive receptors to substantial pollutant concentrations, and on the potential for toxic air contaminants from nearby sources to affect the project. The project is not a source of toxic emissions and impacts from the project to sensitive receptors are therefore less than significant. Impacts associated with nearby sources on the project are consistent with the results of the SCAQMD's MATES III Study. The project would also not expose a substantial number of receptors to objectionable odors.

Emissions of GHGs are also below the SCAQMD's recommended significance threshold of 3,000 metric tons of CO₂e for residential and commercial projects. GHG emissions would be less than significant.

7.0 REFERENCES

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Appendix A

CalEEMod Model Outputs

Las Terrazas Residential Development

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	112.00	Dwelling Unit	5.00	112,000.00	320
General Office Building	2.00	1000sqft	0.41	2,000.00	0
Day-Care Center	50.00	Student	1.00	2,826.14	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2016
Utility Company					
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on project description

Construction Phase - Assuming 12-month construction schedule

Grading - Assuming no export

Trips and VMT - Assuming paving materials brought to site

Vehicle Trips - Based on trip generation rates from traffic report

Woodstoves - assuming no fireplaces

Construction Off-road Equipment Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	230.00	132.00
tblConstructionPhase	NumDays	20.00	42.00
tblConstructionPhase	NumDays	20.00	87.00
tblConstructionPhase	PhaseEndDate	4/1/2016	12/31/2015
tblConstructionPhase	PhaseEndDate	2/27/2015	2/28/2015
tblConstructionPhase	PhaseStartDate	1/1/2016	10/1/2015
tblFireplaces	NumberGas	95.20	0.00
tblFireplaces	NumberNoFireplace	11.20	112.00
tblFireplaces	NumberWood	5.60	0.00
tblGrading	AcresOfGrading	21.00	6.41
tblLandUse	LotAcreage	7.00	5.00
tblLandUse	LotAcreage	0.05	0.41
tblLandUse	LotAcreage	0.06	1.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblVehicleTrips	ST_TR	7.16	6.65
tblVehicleTrips	ST_TR	0.39	4.38
tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	SU_TR	6.07	6.65
tblVehicleTrips	SU_TR	0.37	4.38
tblVehicleTrips	SU_TR	0.98	0.00
tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	4.48	4.38
tblVehicleTrips	WD_TR	11.01	0.00
tblWoodstoves	NumberCatalytic	5.60	0.00
tblWoodstoves	NumberNoncatalytic	5.60	0.00

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					
2015	19.6080	40.5027	29.0754	0.0465	6.3516	2.3694	8.6814	3.3722	2.2404	5.5156	0.0000	4,465.2257	4,465.2257	0.9441	0.0000	4,485.0514
Total	19.6080	40.5027	29.0754	0.0465	6.3516	2.3694	8.6814	3.3722	2.2404	5.5156	0.0000	4,465.2257	4,465.2257	0.9441	0.0000	4,485.0514

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					
2015	19.6080	40.5027	29.0754	0.0465	2.5794	2.3694	4.9092	1.3423	2.2404	3.4857	0.0000	4,465.2257	4,465.2257	0.9441	0.0000	4,485.0514
Total	19.6080	40.5027	29.0754	0.0465	2.5794	2.3694	4.9092	1.3423	2.2404	3.4857	0.0000	4,465.2257	4,465.2257	0.9441	0.0000	4,485.0514

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	59.39	0.00	43.45	60.20	0.00	36.80	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	2.8794	0.1097	9.3743	4.9000e-004		0.0506	0.0506		0.0506	0.0506	0.0000	16.6492	16.6492	0.0170	0.0000	17.0060
Energy	0.0487	0.4166	0.1831	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.7172	530.7172	0.0102	9.7300e-003	533.9471
Mobile	3.5100	9.4129	39.2365	0.0908	6.0710	0.1344	6.2054	1.6220	0.1236	1.7456		7,969.2474	7,969.2474	0.3177		7,975.9183
Total	6.4381	9.9391	48.7939	0.0939	6.0710	0.2186	6.2896	1.6220	0.2078	1.8297	0.0000	8,516.6139	8,516.6139	0.3448	9.7300e-003	8,526.8713

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	2.8794	0.1097	9.3743	4.9000e-004		0.0506	0.0506		0.0506	0.0506	0.0000	16.6492	16.6492	0.0170	0.0000	17.0060
Energy	0.0487	0.4166	0.1831	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.7172	530.7172	0.0102	9.7300e-003	533.9471
Mobile	3.5100	9.4129	39.2365	0.0908	6.0710	0.1344	6.2054	1.6220	0.1236	1.7456		7,969.2474	7,969.2474	0.3177		7,975.9183
Total	6.4381	9.9391	48.7939	0.0939	6.0710	0.2186	6.2896	1.6220	0.2078	1.8297	0.0000	8,516.6139	8,516.6139	0.3448	9.7300e-003	8,526.8713

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2015	2/28/2015	5	42	
2	Paving	Paving	3/1/2015	6/30/2015	5	87	
3	Building Construction	Building Construction	7/1/2015	12/31/2015	5	132	
4	Architectural Coating	Architectural Coating	10/1/2015	12/31/2015	5	66	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6.41

Acres of Paving: 0

Residential Indoor: 226,800; Residential Outdoor: 75,600; Non-Residential Indoor: 7,239; Non-Residential Outdoor: 2,413 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	1	8.00	162	0.38
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	130	0.36
Building Construction	Welders	1	8.00	46	0.45

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
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	82.00	13.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2015**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					6.1839	0.0000	6.1839	3.3277	0.0000	3.3277			0.0000			0.0000
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421		3,129.0158	3,129.0158	0.9341		3,148.6328
Total	3.8327	40.4161	26.6731	0.0298	6.1839	2.3284	8.5123	3.3277	2.1421	5.4698		3,129.0158	3,129.0158	0.9341		3,148.6328

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	0.0692	0.0866	1.0745	2.1300e-003	0.1677	1.4800e-003	0.1691	0.0445	1.3500e-003	0.0458		184.8048	184.8048	9.9400e-003		185.0135
Total	0.0692	0.0866	1.0745	2.1300e-003	0.1677	1.4800e-003	0.1691	0.0445	1.3500e-003	0.0458		184.8048	184.8048	9.9400e-003		185.0135

3.2 Grading - 2015**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					2.4117	0.0000	2.4117	1.2978	0.0000	1.2978			0.0000			0.0000
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421	0.0000	3,129.0158	3,129.0158	0.9341		3,148.6328
Total	3.8327	40.4161	26.6731	0.0298	2.4117	2.3284	4.7401	1.2978	2.1421	3.4399	0.0000	3,129.0158	3,129.0158	0.9341		3,148.6328

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	0.0692	0.0866	1.0745	2.1300e-003	0.1677	1.4800e-003	0.1691	0.0445	1.3500e-003	0.0458		184.8048	184.8048	9.9400e-003		185.0135
Total	0.0692	0.0866	1.0745	2.1300e-003	0.1677	1.4800e-003	0.1691	0.0445	1.3500e-003	0.0458		184.8048	184.8048	9.9400e-003		185.0135

3.3 Paving - 2015**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	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016		2,339.898 4	2,339.898 4	0.6986		2,354.568 1
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016		2,339.898 4	2,339.898 4	0.6986		2,354.568 1

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	0.0945	0.9827	1.0840	2.1800e-003	0.0625	0.0170	0.0795	0.0178	0.0156	0.0334		220.6226	220.6226	1.7300e-003		220.6590
Worker	0.0692	0.0866	1.0745	2.1300e-003	0.1677	1.4800e-003	0.1691	0.0445	1.3500e-003	0.0458		184.8048	184.8048	9.9400e-003		185.0135
Total	0.1637	1.0692	2.1585	4.3100e-003	0.2301	0.0185	0.2486	0.0623	0.0170	0.0792		405.4274	405.4274	0.0117		405.6726

3.3 Paving - 2015**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	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016	0.0000	2,339.898 4	2,339.898 4	0.6986		2,354.568 1
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016	0.0000	2,339.898 4	2,339.898 4	0.6986		2,354.568 1

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	0.0945	0.9827	1.0840	2.1800e-003	0.0625	0.0170	0.0795	0.0178	0.0156	0.0334		220.6226	220.6226	1.7300e-003		220.6590
Worker	0.0692	0.0866	1.0745	2.1300e-003	0.1677	1.4800e-003	0.1691	0.0445	1.3500e-003	0.0458		184.8048	184.8048	9.9400e-003		185.0135
Total	0.1637	1.0692	2.1585	4.3100e-003	0.2301	0.0185	0.2486	0.0623	0.0170	0.0792		405.4274	405.4274	0.0117		405.6726

3.4 Building Construction - 2015

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.577 1	2,689.577 1	0.6748		2,703.748 3
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.577 1	2,689.577 1	0.6748		2,703.748 3

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	0.1229	1.2775	1.4092	2.8300e-003	0.0812	0.0221	0.1033	0.0231	0.0203	0.0434		286.8094	286.8094	2.2500e-003		286.8568
Worker	0.3782	0.4733	5.8738	0.0116	0.9166	8.0700e-003	0.9246	0.2431	7.3900e-003	0.2505		1,010.266 0	1,010.266 0	0.0544		1,011.407 3
Total	0.5010	1.7507	7.2830	0.0145	0.9978	0.0302	1.0279	0.2662	0.0277	0.2939		1,297.075 4	1,297.075 4	0.0566		1,298.264 0

3.4 Building Construction - 2015**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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904	0.0000	2,689.577 1	2,689.577 1	0.6748		2,703.748 3
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904	0.0000	2,689.577 1	2,689.577 1	0.6748		2,703.748 3

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	0.1229	1.2775	1.4092	2.8300e-003	0.0812	0.0221	0.1033	0.0231	0.0203	0.0434		286.8094	286.8094	2.2500e-003		286.8568
Worker	0.3782	0.4733	5.8738	0.0116	0.9166	8.0700e-003	0.9246	0.2431	7.3900e-003	0.2505		1,010.266 0	1,010.266 0	0.0544		1,011.407 3
Total	0.5010	1.7507	7.2830	0.0145	0.9978	0.0302	1.0279	0.2662	0.0277	0.2939		1,297.075 4	1,297.075 4	0.0566		1,298.264 0

3.5 Architectural Coating - 2015

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	14.9675					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177
Total	15.3741	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177

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	0.0738	0.0923	1.1461	2.2700e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489		197.1251	197.1251	0.0106		197.3478
Total	0.0738	0.0923	1.1461	2.2700e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489		197.1251	197.1251	0.0106		197.3478

3.5 Architectural Coating - 2015

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	14.9675					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209	0.0000	281.4481	281.4481	0.0367		282.2177
Total	15.3741	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209	0.0000	281.4481	281.4481	0.0367		282.2177

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	0.0738	0.0923	1.1461	2.2700e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489		197.1251	197.1251	0.0106		197.3478
Total	0.0738	0.0923	1.1461	2.2700e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489		197.1251	197.1251	0.0106		197.3478

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	3.5100	9.4129	39.2365	0.0908	6.0710	0.1344	6.2054	1.6220	0.1236	1.7456		7,969.247 4	7,969.247 4	0.3177		7,975.918 3
Unmitigated	3.5100	9.4129	39.2365	0.0908	6.0710	0.1344	6.2054	1.6220	0.1236	1.7456		7,969.247 4	7,969.247 4	0.3177		7,975.918 3

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	744.80	744.80	744.80	2,545,095	2,545,095
Day-Care Center	219.00	219.00	219.00	318,443	318,443
General Office Building	0.00	0.00	0.00		
Total	963.80	963.80	963.80	2,863,538	2,863,538

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Day-Care Center	16.60	8.40	6.90	12.70	82.30	5.00	28	58	14
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.514315	0.060290	0.180146	0.139458	0.042007	0.006636	0.015782	0.029894	0.001929	0.002512	0.004343	0.000595	0.002093

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive 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	0.0487	0.4166	0.1831	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.7172	530.7172	0.0102	9.7300e-003	533.9471
NaturalGas Unmitigated	0.0487	0.4166	0.1831	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.7172	530.7172	0.0102	9.7300e-003	533.9471

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					
Day-Care Center	84.3196	9.1000e-004	8.2700e-003	6.9400e-003	5.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004		9.9200	9.9200	1.9000e-004	1.8000e-004	9.9803
General Office Building	59.8904	6.5000e-004	5.8700e-003	4.9300e-003	4.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		7.0459	7.0459	1.4000e-004	1.3000e-004	7.0888
Apartments Low Rise	4366.89	0.0471	0.4024	0.1713	2.5700e-003		0.0325	0.0325		0.0325	0.0325		513.7513	513.7513	9.8500e-003	9.4200e-003	516.8779
Total		0.0487	0.4166	0.1831	2.6600e-003		0.0336	0.0336		0.0336	0.0336		530.7172	530.7172	0.0102	9.7300e-003	533.9471

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					
Day-Care Center	0.0843196	9.1000e-004	8.2700e-003	6.9400e-003	5.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004		9.9200	9.9200	1.9000e-004	1.8000e-004	9.9803
General Office Building	0.0598904	6.5000e-004	5.8700e-003	4.9300e-003	4.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		7.0459	7.0459	1.4000e-004	1.3000e-004	7.0888
Apartments Low Rise	4.36689	0.0471	0.4024	0.1713	2.5700e-003		0.0325	0.0325		0.0325	0.0325		513.7513	513.7513	9.8500e-003	9.4200e-003	516.8779
Total		0.0487	0.4166	0.1831	2.6600e-003		0.0336	0.0336		0.0336	0.0336		530.7172	530.7172	0.0102	9.7300e-003	533.9471

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	2.8794	0.1097	9.3743	4.9000e-004		0.0506	0.0506		0.0506	0.0506	0.0000	16.6492	16.6492	0.0170	0.0000	17.0060
Unmitigated	2.8794	0.1097	9.3743	4.9000e-004		0.0506	0.0506		0.0506	0.0506	0.0000	16.6492	16.6492	0.0170	0.0000	17.0060

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	0.2707					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3132					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2956	0.1097	9.3743	4.9000e-004		0.0506	0.0506		0.0506	0.0506		16.6492	16.6492	0.0170		17.0060
Total	2.8794	0.1097	9.3743	4.9000e-004		0.0506	0.0506		0.0506	0.0506	0.0000	16.6492	16.6492	0.0170	0.0000	17.0060

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	0.2707					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3132					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2956	0.1097	9.3743	4.9000e-004		0.0506	0.0506		0.0506	0.0506		16.6492	16.6492	0.0170		17.0060
Total	2.8794	0.1097	9.3743	4.9000e-004		0.0506	0.0506		0.0506	0.0506	0.0000	16.6492	16.6492	0.0170	0.0000	17.0060

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

9.0 Operational Offroad

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

Las Terrazas Residential Development

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	112.00	Dwelling Unit	5.00	112,000.00	320
General Office Building	2.00	1000sqft	0.41	2,000.00	0
Day-Care Center	50.00	Student	1.00	2,826.14	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2016
Utility Company					
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on project description

Construction Phase - Assuming 12-month construction schedule

Grading - Assuming no export

Trips and VMT - Assuming paving materials brought to site

Vehicle Trips - Based on trip generation rates from traffic report

Woodstoves - assuming no fireplaces

Construction Off-road Equipment Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	230.00	132.00
tblConstructionPhase	NumDays	20.00	42.00
tblConstructionPhase	NumDays	20.00	87.00
tblConstructionPhase	PhaseEndDate	4/1/2016	12/31/2015
tblConstructionPhase	PhaseEndDate	2/27/2015	2/28/2015
tblConstructionPhase	PhaseStartDate	1/1/2016	10/1/2015
tblFireplaces	NumberGas	95.20	0.00
tblFireplaces	NumberNoFireplace	11.20	112.00
tblFireplaces	NumberWood	5.60	0.00
tblGrading	AcresOfGrading	21.00	6.41
tblLandUse	LotAcreage	7.00	5.00
tblLandUse	LotAcreage	0.05	0.41
tblLandUse	LotAcreage	0.06	1.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblVehicleTrips	ST_TR	7.16	6.65
tblVehicleTrips	ST_TR	0.39	4.38
tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	SU_TR	6.07	6.65
tblVehicleTrips	SU_TR	0.37	4.38
tblVehicleTrips	SU_TR	0.98	0.00
tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	4.48	4.38
tblVehicleTrips	WD_TR	11.01	0.00
tblWoodstoves	NumberCatalytic	5.60	0.00
tblWoodstoves	NumberNoncatalytic	5.60	0.00

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					
2015	19.6311	40.5112	28.8107	0.0456	6.3516	2.3696	8.6814	3.3722	2.2407	5.5156	0.0000	4,387.973 0	4,387.973 0	0.9441	0.0000	4,407.798 7
Total	19.6311	40.5112	28.8107	0.0456	6.3516	2.3696	8.6814	3.3722	2.2407	5.5156	0.0000	4,387.973 0	4,387.973 0	0.9441	0.0000	4,407.798 7

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					
2015	19.6311	40.5112	28.8107	0.0456	2.5794	2.3696	4.9092	1.3423	2.2407	3.4857	0.0000	4,387.973 0	4,387.973 0	0.9441	0.0000	4,407.798 7
Total	19.6311	40.5112	28.8107	0.0456	2.5794	2.3696	4.9092	1.3423	2.2407	3.4857	0.0000	4,387.973 0	4,387.973 0	0.9441	0.0000	4,407.798 7

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	59.39	0.00	43.45	60.20	0.00	36.80	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	2.8794	0.1097	9.3743	4.9000e-004		0.0506	0.0506		0.0506	0.0506	0.0000	16.6492	16.6492	0.0170	0.0000	17.0060
Energy	0.0487	0.4166	0.1831	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.7172	530.7172	0.0102	9.7300e-003	533.9471
Mobile	3.6376	9.8998	38.7481	0.0862	6.0710	0.1350	6.2060	1.6220	0.1242	1.7461		7,581.8728	7,581.8728	0.3179		7,588.5489
Total	6.5657	10.4261	48.3056	0.0893	6.0710	0.2192	6.2902	1.6220	0.2083	1.8303	0.0000	8,129.2392	8,129.2392	0.3451	9.7300e-003	8,139.5019

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	2.8794	0.1097	9.3743	4.9000e-004		0.0506	0.0506		0.0506	0.0506	0.0000	16.6492	16.6492	0.0170	0.0000	17.0060
Energy	0.0487	0.4166	0.1831	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.7172	530.7172	0.0102	9.7300e-003	533.9471
Mobile	3.6376	9.8998	38.7481	0.0862	6.0710	0.1350	6.2060	1.6220	0.1242	1.7461		7,581.8728	7,581.8728	0.3179		7,588.5489
Total	6.5657	10.4261	48.3056	0.0893	6.0710	0.2192	6.2902	1.6220	0.2083	1.8303	0.0000	8,129.2392	8,129.2392	0.3451	9.7300e-003	8,139.5019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2015	2/28/2015	5	42	
2	Paving	Paving	3/1/2015	6/30/2015	5	87	
3	Building Construction	Building Construction	7/1/2015	12/31/2015	5	132	
4	Architectural Coating	Architectural Coating	10/1/2015	12/31/2015	5	66	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6.41

Acres of Paving: 0

Residential Indoor: 226,800; Residential Outdoor: 75,600; Non-Residential Indoor: 7,239; Non-Residential Outdoor: 2,413 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	1	8.00	162	0.38
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	130	0.36
Building Construction	Welders	1	8.00	46	0.45

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
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	82.00	13.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2015**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					6.1839	0.0000	6.1839	3.3277	0.0000	3.3277			0.0000			0.0000
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421		3,129.0158	3,129.0158	0.9341		3,148.6328
Total	3.8327	40.4161	26.6731	0.0298	6.1839	2.3284	8.5123	3.3277	2.1421	5.4698		3,129.0158	3,129.0158	0.9341		3,148.6328

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	0.0709	0.0951	0.9938	1.9900e-003	0.1677	1.4800e-003	0.1691	0.0445	1.3500e-003	0.0458		173.3466	173.3466	9.9400e-003		173.5553
Total	0.0709	0.0951	0.9938	1.9900e-003	0.1677	1.4800e-003	0.1691	0.0445	1.3500e-003	0.0458		173.3466	173.3466	9.9400e-003		173.5553

3.2 Grading - 2015**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					2.4117	0.0000	2.4117	1.2978	0.0000	1.2978			0.0000			0.0000
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421	0.0000	3,129.0158	3,129.0158	0.9341		3,148.6328
Total	3.8327	40.4161	26.6731	0.0298	2.4117	2.3284	4.7401	1.2978	2.1421	3.4399	0.0000	3,129.0158	3,129.0158	0.9341		3,148.6328

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	0.0709	0.0951	0.9938	1.9900e-003	0.1677	1.4800e-003	0.1691	0.0445	1.3500e-003	0.0458		173.3466	173.3466	9.9400e-003		173.5553
Total	0.0709	0.0951	0.9938	1.9900e-003	0.1677	1.4800e-003	0.1691	0.0445	1.3500e-003	0.0458		173.3466	173.3466	9.9400e-003		173.5553

3.3 Paving - 2015**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	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016		2,339.898 4	2,339.898 4	0.6986		2,354.568 1
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016		2,339.898 4	2,339.898 4	0.6986		2,354.568 1

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	0.1038	1.0082	1.2857	2.1600e-003	0.0625	0.0172	0.0797	0.0178	0.0158	0.0336		218.7823	218.7823	1.7800e-003		218.8197
Worker	0.0709	0.0951	0.9938	1.9900e-003	0.1677	1.4800e-003	0.1691	0.0445	1.3500e-003	0.0458		173.3466	173.3466	9.9400e-003		173.5553
Total	0.1747	1.1033	2.2795	4.1500e-003	0.2301	0.0187	0.2488	0.0623	0.0172	0.0794		392.1289	392.1289	0.0117		392.3750

3.3 Paving - 2015**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	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016	0.0000	2,339.898 4	2,339.898 4	0.6986		2,354.568 1
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016	0.0000	2,339.898 4	2,339.898 4	0.6986		2,354.568 1

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	0.1038	1.0082	1.2857	2.1600e-003	0.0625	0.0172	0.0797	0.0178	0.0158	0.0336		218.7823	218.7823	1.7800e-003		218.8197
Worker	0.0709	0.0951	0.9938	1.9900e-003	0.1677	1.4800e-003	0.1691	0.0445	1.3500e-003	0.0458		173.3466	173.3466	9.9400e-003		173.5553
Total	0.1747	1.1033	2.2795	4.1500e-003	0.2301	0.0187	0.2488	0.0623	0.0172	0.0794		392.1289	392.1289	0.0117		392.3750

3.4 Building Construction - 2015**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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.577 1	2,689.577 1	0.6748		2,703.748 3
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.577 1	2,689.577 1	0.6748		2,703.748 3

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	0.1349	1.3107	1.6714	2.8100e-003	0.0812	0.0224	0.1036	0.0231	0.0206	0.0437		284.4170	284.4170	2.3200e-003		284.4656
Worker	0.3874	0.5200	5.4329	0.0109	0.9166	8.0700e-003	0.9246	0.2431	7.3900e-003	0.2505		947.6278	947.6278	0.0544		948.7691
Total	0.5223	1.8307	7.1043	0.0137	0.9978	0.0304	1.0282	0.2662	0.0280	0.2942		1,232.044 8	1,232.044 8	0.0567		1,233.234 7

3.4 Building Construction - 2015

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904	0.0000	2,689.577 1	2,689.577 1	0.6748		2,703.748 3
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904	0.0000	2,689.577 1	2,689.577 1	0.6748		2,703.748 3

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	0.1349	1.3107	1.6714	2.8100e-003	0.0812	0.0224	0.1036	0.0231	0.0206	0.0437		284.4170	284.4170	2.3200e-003		284.4656
Worker	0.3874	0.5200	5.4329	0.0109	0.9166	8.0700e-003	0.9246	0.2431	7.3900e-003	0.2505		947.6278	947.6278	0.0544		948.7691
Total	0.5223	1.8307	7.1043	0.0137	0.9978	0.0304	1.0282	0.2662	0.0280	0.2942		1,232.044 8	1,232.044 8	0.0567		1,233.234 7

3.5 Architectural Coating - 2015

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	14.9675					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177
Total	15.3741	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177

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	0.0756	0.1015	1.0601	2.1300e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489		184.9030	184.9030	0.0106		185.1257
Total	0.0756	0.1015	1.0601	2.1300e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489		184.9030	184.9030	0.0106		185.1257

3.5 Architectural Coating - 2015

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	14.9675					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209	0.0000	281.4481	281.4481	0.0367		282.2177
Total	15.3741	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209	0.0000	281.4481	281.4481	0.0367		282.2177

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	0.0756	0.1015	1.0601	2.1300e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489		184.9030	184.9030	0.0106		185.1257
Total	0.0756	0.1015	1.0601	2.1300e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489		184.9030	184.9030	0.0106		185.1257

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	3.6376	9.8998	38.7481	0.0862	6.0710	0.1350	6.2060	1.6220	0.1242	1.7461		7,581.872 ₈	7,581.872 ₈	0.3179		7,588.548 ₉
Unmitigated	3.6376	9.8998	38.7481	0.0862	6.0710	0.1350	6.2060	1.6220	0.1242	1.7461		7,581.872 ₈	7,581.872 ₈	0.3179		7,588.548 ₉

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	744.80	744.80	744.80	2,545,095	2,545,095
Day-Care Center	219.00	219.00	219.00	318,443	318,443
General Office Building	0.00	0.00	0.00		
Total	963.80	963.80	963.80	2,863,538	2,863,538

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Day-Care Center	16.60	8.40	6.90	12.70	82.30	5.00	28	58	14
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.514315	0.060290	0.180146	0.139458	0.042007	0.006636	0.015782	0.029894	0.001929	0.002512	0.004343	0.000595	0.002093

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive 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	0.0487	0.4166	0.1831	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.7172	530.7172	0.0102	9.7300e-003	533.9471
NaturalGas Unmitigated	0.0487	0.4166	0.1831	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.7172	530.7172	0.0102	9.7300e-003	533.9471

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					
Apartments Low Rise	4366.89	0.0471	0.4024	0.1713	2.5700e-003		0.0325	0.0325		0.0325	0.0325		513.7513	513.7513	9.8500e-003	9.4200e-003	516.8779
Day-Care Center	84.3196	9.1000e-004	8.2700e-003	6.9400e-003	5.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004		9.9200	9.9200	1.9000e-004	1.8000e-004	9.9803
General Office Building	59.8904	6.5000e-004	5.8700e-003	4.9300e-003	4.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		7.0459	7.0459	1.4000e-004	1.3000e-004	7.0888
Total		0.0487	0.4166	0.1831	2.6600e-003		0.0336	0.0336		0.0336	0.0336		530.7172	530.7172	0.0102	9.7300e-003	533.9471

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					
Day-Care Center	0.0843196	9.1000e-004	8.2700e-003	6.9400e-003	5.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004		9.9200	9.9200	1.9000e-004	1.8000e-004	9.9803
General Office Building	0.0598904	6.5000e-004	5.8700e-003	4.9300e-003	4.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		7.0459	7.0459	1.4000e-004	1.3000e-004	7.0888
Apartments Low Rise	4.36689	0.0471	0.4024	0.1713	2.5700e-003		0.0325	0.0325		0.0325	0.0325		513.7513	513.7513	9.8500e-003	9.4200e-003	516.8779
Total		0.0487	0.4166	0.1831	2.6600e-003		0.0336	0.0336		0.0336	0.0336		530.7172	530.7172	0.0102	9.7300e-003	533.9471

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	2.8794	0.1097	9.3743	4.9000e-004		0.0506	0.0506		0.0506	0.0506	0.0000	16.6492	16.6492	0.0170	0.0000	17.0060
Unmitigated	2.8794	0.1097	9.3743	4.9000e-004		0.0506	0.0506		0.0506	0.0506	0.0000	16.6492	16.6492	0.0170	0.0000	17.0060

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	0.2707					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3132					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2956	0.1097	9.3743	4.9000e-004		0.0506	0.0506		0.0506	0.0506		16.6492	16.6492	0.0170		17.0060
Total	2.8794	0.1097	9.3743	4.9000e-004		0.0506	0.0506		0.0506	0.0506	0.0000	16.6492	16.6492	0.0170	0.0000	17.0060

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	0.2707					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3132					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2956	0.1097	9.3743	4.9000e-004		0.0506	0.0506		0.0506	0.0506		16.6492	16.6492	0.0170		17.0060
Total	2.8794	0.1097	9.3743	4.9000e-004		0.0506	0.0506		0.0506	0.0506	0.0000	16.6492	16.6492	0.0170	0.0000	17.0060

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

9.0 Operational Offroad

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

Las Terrazas Residential Development

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2.00	1000sqft	0.41	2,000.00	0
Day-Care Center	50.00	Student	1.00	2,826.14	0
Apartments Low Rise	112.00	Dwelling Unit	5.00	112,000.00	320

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2016
Utility Company					
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Construction Phase - Assuming 7 days for remediation for conservative purposes

Off-road Equipment - 1 backhoe and 1 front-end loader

Grading - Site remediation

Trips and VMT - 4 on-site employees and 1 employee per truck. 35 haul trucks total

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Interior	7239	0
tblAreaCoating	Area_Residential_Exterior	75600	0

tblAreaCoating	Area_Residential_Interior	226800	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExterior	100	0
tblAreaMitigation	UseLowVOCPaintResidentialInterior	50	0
tblConstructionPhase	NumDays	20.00	7.00
tblGrading	AcresOfGrading	0.00	6.41
tblLandUse	LotAcreage	0.05	0.41
tblLandUse	LotAcreage	0.06	1.00
tblLandUse	LotAcreage	7.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblTripsAndVMT	HaulingTripNumber	0.00	35.00
tblTripsAndVMT	WorkerTripNumber	15.00	39.00

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					
2016	0.9297	8.0970	8.3278	0.0154	1.4941	0.5263	2.0204	0.2443	0.4842	0.7285	0.0000	1,483.3149	1,483.3149	0.2217	0.0000	1,487.9710
Total	0.9297	8.0970	8.3278	0.0154	1.4941	0.5263	2.0204	0.2443	0.4842	0.7285	0.0000	1,483.3149	1,483.3149	0.2217	0.0000	1,487.9710

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					
2016	0.9297	8.0970	8.3278	0.0154	0.9018	0.5263	1.4281	0.1804	0.4842	0.6645	0.0000	1,483.3149	1,483.3149	0.2217	0.0000	1,487.9710
Total	0.9297	8.0970	8.3278	0.0154	0.9018	0.5263	1.4281	0.1804	0.4842	0.6645	0.0000	1,483.3149	1,483.3149	0.2217	0.0000	1,487.9710

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	39.65	0.00	29.32	26.18	0.00	8.78	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	31.9644	0.8543	65.6702	0.0901		8.6061	8.6061		8.6047	8.6047	1,049.0949	2,032.6492	3,081.7441	3.1456	0.0712	3,169.8751
Energy	0.0487	0.4166	0.1831	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.7172	530.7172	0.0102	9.7300e-003	533.9471
Mobile	3.8258	10.2998	42.9094	0.0994	6.6506	0.1472	6.7978	1.7768	0.1353	1.9122		8,728.3023	8,728.3023	0.3478		8,735.6050
Total	35.8389	11.5707	108.7627	0.1921	6.6506	8.7869	15.4374	1.7768	8.7737	10.5505	1,049.0949	11,291.6687	12,340.7636	3.5035	0.0809	12,439.4272

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	31.9644	0.8543	65.6702	0.0901		8.6061	8.6061		8.6047	8.6047	1,049.0949	2,032.6492	3,081.7441	3.1456	0.0712	3,169.8751
Energy	0.0487	0.4166	0.1831	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.7172	530.7172	0.0102	9.7300e-003	533.9471
Mobile	3.8258	10.2998	42.9094	0.0994	6.6506	0.1472	6.7978	1.7768	0.1353	1.9122		8,728.3023	8,728.3023	0.3478		18,735.6050
Total	35.8389	11.5707	108.7627	0.1921	6.6506	8.7869	15.4374	1.7768	8.7737	10.5505	1,049.0949	11,291.6687	12,340.7636	3.5035	0.0809	12,439.4272

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	7/1/2016	7/11/2016	5	7	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6.41

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	0.00	162	0.38
Grading	Graders	1	0.00	174	0.41
Grading	Concrete/Industrial Saws	1	0.00	81	0.73
Grading	Rubber Tired Dozers	1	0.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	6	39.00	0.00	35.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2016

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					0.9711	0.0000	0.9711	0.1049	0.0000	0.1049			0.0000			0.0000
Off-Road	0.6812	6.5101	4.8252	6.2300e-003		0.5012	0.5012		0.4611	0.4611		647.3546	647.3546	0.1953		651.4551
Total	0.6812	6.5101	4.8252	6.2300e-003	0.9711	0.5012	1.4724	0.1049	0.4611	0.5660		647.3546	647.3546	0.1953		651.4551

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	0.0862	1.3838	0.9729	3.6900e-003	0.0871	0.0214	0.1085	0.0239	0.0197	0.0435		372.0232	372.0232	2.6700e-003		372.0792
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	0.1624	0.2031	2.5297	5.5200e-003	0.4359	3.6400e-003	0.4396	0.1156	3.3500e-003	0.1190		463.9372	463.9372	0.0238		464.4367
Total	0.2485	1.5869	3.5026	9.2100e-003	0.5230	0.0251	0.5481	0.1395	0.0230	0.1625		835.9604	835.9604	0.0265		836.5158

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					0.3787	0.0000	0.3787	0.0409	0.0000	0.0409			0.0000			0.0000
Off-Road	0.6812	6.5101	4.8252	6.2300e-003		0.5012	0.5012		0.4611	0.4611	0.0000	647.3546	647.3546	0.1953		651.4551
Total	0.6812	6.5101	4.8252	6.2300e-003	0.3787	0.5012	0.8800	0.0409	0.4611	0.5020	0.0000	647.3546	647.3546	0.1953		651.4551

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
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Category	lb/day										lb/day					
Hauling	0.0862	1.3838	0.9729	3.6900e-003	0.0871	0.0214	0.1085	0.0239	0.0197	0.0435		372.0232	372.0232	2.6700e-003		372.0792
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	0.1624	0.2031	2.5297	5.5200e-003	0.4359	3.6400e-003	0.4396	0.1156	3.3500e-003	0.1190		463.9372	463.9372	0.0238		464.4367
Total	0.2485	1.5869	3.5026	9.2100e-003	0.5230	0.0251	0.5481	0.1395	0.0230	0.1625		835.9604	835.9604	0.0265		836.5158

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	3.8258	10.2998	42.9094	0.0994	6.6506	0.1472	6.7978	1.7768	0.1353	1.9122		8,728.3023	8,728.3023	0.3478		8,735.6050
Unmitigated	3.8258	10.2998	42.9094	0.0994	6.6506	0.1472	6.7978	1.7768	0.1353	1.9122		8,728.3023	8,728.3023	0.3478		8,735.6050

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartment Low Rise	738.08	801.92	679.84	2,524,865	2,524,865
Day-Care Center	224.00	19.50	18.50	240,546	240,546
General Office Building	22.02	4.74	1.96	53,752	53,752
Total	984.10	826.16	700.30	2,819,164	2,819,164

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Day-Care Center	16.60	8.40	6.90	12.70	82.30	5.00	28	58	14
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.514315!	0.060290!	0.180146	0.139458!	0.042007!	0.006636!	0.015782!	0.029894!	0.001929!	0.002512!	0.004343!	0.000595!	0.002093

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive 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	0.0487	0.4166	0.1831	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.7172	530.7172	0.0102	9.7300e-003	533.9471
NaturalGas Unmitigated	0.0487	0.4166	0.1831	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.7172	530.7172	0.0102	9.7300e-003	533.9471

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
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Land Use	kBTU/yr	lb/day										lb/day					
Day-Care Center	84.3196	9.1000e-004	8.2700e-003	6.9400e-003	5.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004		9.9200	9.9200	1.9000e-004	1.8000e-004	9.9803
General Office Building	59.8904	6.5000e-004	5.8700e-003	4.9300e-003	4.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		7.0459	7.0459	1.4000e-004	1.3000e-004	7.0888
Apartments Low Rise	4366.89	0.0471	0.4024	0.1713	2.5700e-003		0.0325	0.0325		0.0325	0.0325		513.7513	513.7513	9.8500e-003	9.4200e-003	516.8779
Total		0.0487	0.4166	0.1831	2.6600e-003		0.0336	0.0336		0.0336	0.0336		530.7172	530.7172	0.0102	9.7300e-003	533.9471

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					
General Office Building	0.0598904	6.5000e-004	5.8700e-003	4.9300e-003	4.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		7.0459	7.0459	1.4000e-004	1.3000e-004	7.0888
Apartments Low Rise	4.36689	0.0471	0.4024	0.1713	2.5700e-003		0.0325	0.0325		0.0325	0.0325		513.7513	513.7513	9.8500e-003	9.4200e-003	516.8779
Day-Care Center	0.0843196	9.1000e-004	8.2700e-003	6.9400e-003	5.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004		9.9200	9.9200	1.9000e-004	1.8000e-004	9.9803
Total		0.0487	0.4166	0.1831	2.6600e-003		0.0336	0.0336		0.0336	0.0336		530.7172	530.7172	0.0102	9.7300e-003	533.9471

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	31.9644	0.8543	65.6702	0.0901		8.6061	8.6061		8.6047	8.6047	1,049.0949	2,032.6492	3,081.7441	3.1456	0.0712	3,169.8751
Unmitigated	31.9644	0.8543	65.6702	0.0901		8.6061	8.6061		8.6047	8.6047	1,049.0949	2,032.6492	3,081.7441	3.1456	0.0712	3,169.8751

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	7.6600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3132					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	29.3480	0.7446	56.2959	0.0896		8.5555	8.5555		8.5542	8.5542	1,049.0949	2,016.0000	3,065.0949	3.1286	0.0712	3,152.8691
Landscaping	0.2956	0.1097	9.3743	4.9000e-004		0.0506	0.0506		0.0506	0.0506		16.6492	16.6492	0.0170		17.0060
Total	31.9644	0.8543	65.6702	0.0901		8.6061	8.6061		8.6047	8.6047	1,049.0949	2,032.6492	3,081.7441	3.1456	0.0712	3,169.8751

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	7.6600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3132					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	29.3480	0.7446	56.2959	0.0896		8.5555	8.5555		8.5542	8.5542	1,049.0949	2,016.0000	3,065.0949	3.1286	0.0712	3,152.8691

Landscaping	0.2956	0.1097	9.3743	4.9000e-004		0.0506	0.0506		0.0506	0.0506		16.6492	16.6492	0.0170		17.0060
Total	31.9644	0.8543	65.6702	0.0901		8.6061	8.6061		8.6047	8.6047	1,049.0949	2,032.6492	3,081.7441	3.1456	0.0712	3,169.8751

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Las Terrazas Residential Development

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	112.00	Dwelling Unit	5.00	112,000.00	320
General Office Building	2.00	1000sqft	0.41	2,000.00	0
Day-Care Center	50.00	Student	1.00	2,826.14	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2016
Utility Company					
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on project description

Construction Phase - Assuming 12-month construction schedule

Grading - Assuming no export

Trips and VMT - Assuming paving materials brought to site

Vehicle Trips - Based on trip generation rates from traffic report

Woodstoves - assuming no fireplaces

Construction Off-road Equipment Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	230.00	132.00
tblConstructionPhase	NumDays	20.00	42.00
tblConstructionPhase	NumDays	20.00	87.00
tblConstructionPhase	PhaseEndDate	4/1/2016	12/31/2015
tblConstructionPhase	PhaseEndDate	2/27/2015	2/28/2015
tblConstructionPhase	PhaseStartDate	1/1/2016	10/1/2015
tblFireplaces	NumberGas	95.20	0.00
tblFireplaces	NumberNoFireplace	11.20	112.00
tblFireplaces	NumberWood	5.60	0.00
tblGrading	AcresOfGrading	21.00	6.41
tblLandUse	LotAcreage	7.00	5.00
tblLandUse	LotAcreage	0.05	0.41
tblLandUse	LotAcreage	0.06	1.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblVehicleTrips	ST_TR	7.16	6.65
tblVehicleTrips	ST_TR	0.39	4.38
tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	SU_TR	6.07	6.65
tblVehicleTrips	SU_TR	0.37	4.38
tblVehicleTrips	SU_TR	0.98	0.00
tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	4.48	4.38
tblVehicleTrips	WD_TR	11.01	0.00
tblWoodstoves	NumberCatalytic	5.60	0.00
tblWoodstoves	NumberNoncatalytic	5.60	0.00

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					
2015	0.9739	4.1887	3.1422	4.6800e-003	0.2136	0.2603	0.4739	0.0923	0.2429	0.3352	0.0000	420.7426	420.7426	0.0912	0.0000	422.6582
Total	0.9739	4.1887	3.1422	4.6800e-003	0.2136	0.2603	0.4739	0.0923	0.2429	0.3352	0.0000	420.7426	420.7426	0.0912	0.0000	422.6582

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					
2015	0.9739	4.1887	3.1422	4.6800e-003	0.1344	0.2603	0.3947	0.0497	0.2429	0.2926	0.0000	420.7422	420.7422	0.0912	0.0000	422.6579
Total	0.9739	4.1887	3.1422	4.6800e-003	0.1344	0.2603	0.3947	0.0497	0.2429	0.2926	0.0000	420.7422	420.7422	0.0912	0.0000	422.6579

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	37.09	0.00	16.72	46.20	0.00	12.72	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	tons/yr										MT/yr					
Area	0.5085	0.0137	1.1718	6.0000e-005		6.3200e-003	6.3200e-003		6.3200e-003	6.3200e-003	0.0000	1.8880	1.8880	1.9300e-003	0.0000	1.9284
Energy	8.8800e-003	0.0760	0.0334	4.8000e-004		6.1300e-003	6.1300e-003		6.1300e-003	6.1300e-003	0.0000	87.8662	87.8662	1.6800e-003	1.6100e-003	88.4009
Mobile	0.6282	1.8373	7.1188	0.0159	1.0848	0.0245	1.1093	0.2903	0.0225	0.3128	0.0000	1,265.7940	1,265.7940	0.0524	0.0000	1,266.8945
Waste						0.0000	0.0000		0.0000	0.0000	12.6890	0.0000	12.6890	0.7499	0.0000	28.4368
Water						0.0000	0.0000		0.0000	0.0000	2.4663	0.0000	2.4663	0.2533	5.9800e-003	9.6401
Total	1.1455	1.9270	8.3241	0.0164	1.0848	0.0369	1.1218	0.2903	0.0350	0.3252	15.1553	1,355.5482	1,370.7035	1.0592	7.5900e-003	1,395.3008

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	0.5085	0.0137	1.1718	6.0000e-005		6.3200e-003	6.3200e-003		6.3200e-003	6.3200e-003	0.0000	1.8880	1.8880	1.9300e-003	0.0000	1.9284
Energy	8.8800e-003	0.0760	0.0334	4.8000e-004		6.1300e-003	6.1300e-003		6.1300e-003	6.1300e-003	0.0000	87.8662	87.8662	1.6800e-003	1.6100e-003	88.4009
Mobile	0.6282	1.8373	7.1188	0.0159	1.0848	0.0245	1.1093	0.2903	0.0225	0.3128	0.0000	1,265.7940	1,265.7940	0.0524	0.0000	1,266.8945
Waste						0.0000	0.0000		0.0000	0.0000	12.6890	0.0000	12.6890	0.7499	0.0000	28.4368
Water						0.0000	0.0000		0.0000	0.0000	1.9731	0.0000	1.9731	0.2027	4.7900e-003	7.7121
Total	1.1455	1.9270	8.3241	0.0164	1.0848	0.0369	1.1218	0.2903	0.0350	0.3252	14.6620	1,355.5482	1,370.2102	1.0086	6.4000e-003	1,393.3727

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.25	0.00	0.04	4.78	15.68	0.14

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2015	2/28/2015	5	42	
2	Paving	Paving	3/1/2015	6/30/2015	5	87	
3	Building Construction	Building Construction	7/1/2015	12/31/2015	5	132	
4	Architectural Coating	Architectural Coating	10/1/2015	12/31/2015	5	66	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6.41

Acres of Paving: 0

Residential Indoor: 226,800; Residential Outdoor: 75,600; Non-Residential Indoor: 7,239; Non-Residential Outdoor: 2,413 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	1	8.00	162	0.38
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	130	0.36
Building Construction	Welders	1	8.00	46	0.45

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
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	82.00	13.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2015**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					0.1299	0.0000	0.1299	0.0699	0.0000	0.0699	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0805	0.8487	0.5601	6.3000e-004		0.0489	0.0489		0.0450	0.0450	0.0000	59.6105	59.6105	0.0178	0.0000	59.9842
Total	0.0805	0.8487	0.5601	6.3000e-004	0.1299	0.0489	0.1788	0.0699	0.0450	0.1149	0.0000	59.6105	59.6105	0.0178	0.0000	59.9842

3.2 Grading - 2015**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	1.4000e-003	2.0600e-003	0.0214	4.0000e-005	3.4600e-003	3.0000e-005	3.4900e-003	9.2000e-004	3.0000e-005	9.5000e-004	0.0000	3.3538	3.3538	1.9000e-004	0.0000	3.3578
Total	1.4000e-003	2.0600e-003	0.0214	4.0000e-005	3.4600e-003	3.0000e-005	3.4900e-003	9.2000e-004	3.0000e-005	9.5000e-004	0.0000	3.3538	3.3538	1.9000e-004	0.0000	3.3578

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					0.0507	0.0000	0.0507	0.0273	0.0000	0.0273	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0805	0.8487	0.5601	6.3000e-004		0.0489	0.0489		0.0450	0.0450	0.0000	59.6104	59.6104	0.0178	0.0000	59.9842
Total	0.0805	0.8487	0.5601	6.3000e-004	0.0507	0.0489	0.0996	0.0273	0.0450	0.0722	0.0000	59.6104	59.6104	0.0178	0.0000	59.9842

3.2 Grading - 2015

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	1.4000e-003	2.0600e-003	0.0214	4.0000e-005	3.4600e-003	3.0000e-005	3.4900e-003	9.2000e-004	3.0000e-005	9.5000e-004	0.0000	3.3538	3.3538	1.9000e-004	0.0000	3.3578
Total	1.4000e-003	2.0600e-003	0.0214	4.0000e-005	3.4600e-003	3.0000e-005	3.4900e-003	9.2000e-004	3.0000e-005	9.5000e-004	0.0000	3.3538	3.3538	1.9000e-004	0.0000	3.3578

3.3 Paving - 2015

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	0.1008	1.0952	0.6516	9.7000e-004		0.0615	0.0615		0.0566	0.0566	0.0000	92.3383	92.3383	0.0276	0.0000	92.9172
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1008	1.0952	0.6516	9.7000e-004		0.0615	0.0615		0.0566	0.0566	0.0000	92.3383	92.3383	0.0276	0.0000	92.9172

3.3 Paving - 2015

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	4.3800e-003	0.0447	0.0545	9.0000e-005	2.6800e-003	7.4000e-004	3.4200e-003	7.6000e-004	6.8000e-004	1.4500e-003	0.0000	8.6758	8.6758	7.0000e-005	0.0000	8.6773
Worker	2.9100e-003	4.2600e-003	0.0443	9.0000e-005	7.1600e-003	6.0000e-005	7.2200e-003	1.9000e-003	6.0000e-005	1.9600e-003	0.0000	6.9471	6.9471	3.9000e-004	0.0000	6.9554
Total	7.2900e-003	0.0490	0.0988	1.8000e-004	9.8400e-003	8.0000e-004	0.0106	2.6600e-003	7.4000e-004	3.4100e-003	0.0000	15.6229	15.6229	4.6000e-004	0.0000	15.6326

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	0.1008	1.0952	0.6516	9.7000e-004		0.0615	0.0615		0.0566	0.0566	0.0000	92.3382	92.3382	0.0276	0.0000	92.9171
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1008	1.0952	0.6516	9.7000e-004		0.0615	0.0615		0.0566	0.0566	0.0000	92.3382	92.3382	0.0276	0.0000	92.9171

3.3 Paving - 2015**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	4.3800e-003	0.0447	0.0545	9.0000e-005	2.6800e-003	7.4000e-004	3.4200e-003	7.6000e-004	6.8000e-004	1.4500e-003	0.0000	8.6758	8.6758	7.0000e-005	0.0000	8.6773
Worker	2.9100e-003	4.2600e-003	0.0443	9.0000e-005	7.1600e-003	6.0000e-005	7.2200e-003	1.9000e-003	6.0000e-005	1.9600e-003	0.0000	6.9471	6.9471	3.9000e-004	0.0000	6.9554
Total	7.2900e-003	0.0490	0.0988	1.8000e-004	9.8400e-003	8.0000e-004	0.0106	2.6600e-003	7.4000e-004	3.4100e-003	0.0000	15.6229	15.6229	4.6000e-004	0.0000	15.6326

3.4 Building Construction - 2015**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	0.2415	1.9820	1.2371	1.7700e-003		0.1397	0.1397		0.1314	0.1314	0.0000	161.0363	161.0363	0.0404	0.0000	161.8848
Total	0.2415	1.9820	1.2371	1.7700e-003		0.1397	0.1397		0.1314	0.1314	0.0000	161.0363	161.0363	0.0404	0.0000	161.8848

3.4 Building Construction - 2015

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	8.6500e-003	0.0882	0.1076	1.9000e-004	5.2800e-003	1.4700e-003	6.7400e-003	1.5100e-003	1.3500e-003	2.8500e-003	0.0000	17.1123	17.1123	1.4000e-004	0.0000	17.1152
Worker	0.0241	0.0353	0.3670	7.3000e-004	0.0594	5.3000e-004	0.0599	0.0158	4.9000e-004	0.0163	0.0000	57.6211	57.6211	3.2500e-003	0.0000	57.6895
Total	0.0328	0.1235	0.4746	9.2000e-004	0.0647	2.0000e-003	0.0667	0.0173	1.8400e-003	0.0191	0.0000	74.7334	74.7334	3.3900e-003	0.0000	74.8046

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	0.2415	1.9820	1.2371	1.7700e-003		0.1397	0.1397		0.1314	0.1314	0.0000	161.0361	161.0361	0.0404	0.0000	161.8846
Total	0.2415	1.9820	1.2371	1.7700e-003		0.1397	0.1397		0.1314	0.1314	0.0000	161.0361	161.0361	0.0404	0.0000	161.8846

3.4 Building Construction - 2015

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	8.6500e-003	0.0882	0.1076	1.9000e-004	5.2800e-003	1.4700e-003	6.7400e-003	1.5100e-003	1.3500e-003	2.8500e-003	0.0000	17.1123	17.1123	1.4000e-004	0.0000	17.1152
Worker	0.0241	0.0353	0.3670	7.3000e-004	0.0594	5.3000e-004	0.0599	0.0158	4.9000e-004	0.0163	0.0000	57.6211	57.6211	3.2500e-003	0.0000	57.6895
Total	0.0328	0.1235	0.4746	9.2000e-004	0.0647	2.0000e-003	0.0667	0.0173	1.8400e-003	0.0191	0.0000	74.7334	74.7334	3.3900e-003	0.0000	74.8046

3.5 Architectural Coating - 2015

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	0.4939					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0134	0.0848	0.0628	1.0000e-004		7.2900e-003	7.2900e-003		7.2900e-003	7.2900e-003	0.0000	8.4257	8.4257	1.1000e-003	0.0000	8.4488
Total	0.5074	0.0848	0.0628	1.0000e-004		7.2900e-003	7.2900e-003		7.2900e-003	7.2900e-003	0.0000	8.4257	8.4257	1.1000e-003	0.0000	8.4488

3.5 Architectural Coating - 2015

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	2.3500e-003	3.4500e-003	0.0358	7.0000e-005	5.7900e-003	5.0000e-005	5.8400e-003	1.5400e-003	5.0000e-005	1.5900e-003	0.0000	5.6216	5.6216	3.2000e-004	0.0000	5.6282
Total	2.3500e-003	3.4500e-003	0.0358	7.0000e-005	5.7900e-003	5.0000e-005	5.8400e-003	1.5400e-003	5.0000e-005	1.5900e-003	0.0000	5.6216	5.6216	3.2000e-004	0.0000	5.6282

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	0.4939					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0134	0.0848	0.0628	1.0000e-004		7.2900e-003	7.2900e-003		7.2900e-003	7.2900e-003	0.0000	8.4257	8.4257	1.1000e-003	0.0000	8.4488
Total	0.5074	0.0848	0.0628	1.0000e-004		7.2900e-003	7.2900e-003		7.2900e-003	7.2900e-003	0.0000	8.4257	8.4257	1.1000e-003	0.0000	8.4488

3.5 Architectural Coating - 2015

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	2.3500e-003	3.4500e-003	0.0358	7.0000e-005	5.7900e-003	5.0000e-005	5.8400e-003	1.5400e-003	5.0000e-005	1.5900e-003	0.0000	5.6216	5.6216	3.2000e-004	0.0000	5.6282
Total	2.3500e-003	3.4500e-003	0.0358	7.0000e-005	5.7900e-003	5.0000e-005	5.8400e-003	1.5400e-003	5.0000e-005	1.5900e-003	0.0000	5.6216	5.6216	3.2000e-004	0.0000	5.6282

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	0.6282	1.8373	7.1188	0.0159	1.0848	0.0245	1.1093	0.2903	0.0225	0.3128	0.0000	1,265.7940	1,265.7940	0.0524	0.0000	1,266.8945
Unmitigated	0.6282	1.8373	7.1188	0.0159	1.0848	0.0245	1.1093	0.2903	0.0225	0.3128	0.0000	1,265.7940	1,265.7940	0.0524	0.0000	1,266.8945

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	744.80	744.80	744.80	2,545,095	2,545,095
Day-Care Center	219.00	219.00	219.00	318,443	318,443
General Office Building	0.00	0.00	0.00		
Total	963.80	963.80	963.80	2,863,538	2,863,538

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Day-Care Center	16.60	8.40	6.90	12.70	82.30	5.00	28	58	14
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.514315	0.060290	0.180146	0.139458	0.042007	0.006636	0.015782	0.029894	0.001929	0.002512	0.004343	0.000595	0.002093

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive 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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	8.8800e-003	0.0760	0.0334	4.8000e-004		6.1300e-003	6.1300e-003		6.1300e-003	6.1300e-003	0.0000	87.8662	87.8662	1.6800e-003	1.6100e-003	88.4009
NaturalGas Unmitigated	8.8800e-003	0.0760	0.0334	4.8000e-004		6.1300e-003	6.1300e-003		6.1300e-003	6.1300e-003	0.0000	87.8662	87.8662	1.6800e-003	1.6100e-003	88.4009

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					
Day-Care Center	30776.7	1.7000e-004	1.5100e-003	1.2700e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6424	1.6424	3.0000e-005	3.0000e-005	1.6524
General Office Building	21860	1.2000e-004	1.0700e-003	9.0000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1665	1.1665	2.0000e-005	2.0000e-005	1.1736
Apartments Low Rise	1.59391e+006	8.5900e-003	0.0735	0.0313	4.7000e-004		5.9400e-003	5.9400e-003		5.9400e-003	5.9400e-003	0.0000	85.0573	85.0573	1.6300e-003	1.5600e-003	85.5749
Total		8.8800e-003	0.0760	0.0334	4.9000e-004		6.1300e-003	6.1300e-003		6.1300e-003	6.1300e-003	0.0000	87.8662	87.8662	1.6800e-003	1.6100e-003	88.4009

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					
Day-Care Center	30776.7	1.7000e-004	1.5100e-003	1.2700e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6424	1.6424	3.0000e-005	3.0000e-005	1.6524
General Office Building	21860	1.2000e-004	1.0700e-003	9.0000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1665	1.1665	2.0000e-005	2.0000e-005	1.1736
Apartments Low Rise	1.59391e+006	8.5900e-003	0.0735	0.0313	4.7000e-004		5.9400e-003	5.9400e-003		5.9400e-003	5.9400e-003	0.0000	85.0573	85.0573	1.6300e-003	1.5600e-003	85.5749
Total		8.8800e-003	0.0760	0.0334	4.9000e-004		6.1300e-003	6.1300e-003		6.1300e-003	6.1300e-003	0.0000	87.8662	87.8662	1.6800e-003	1.6100e-003	88.4009

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	411172	0.0000	0.0000	0.0000	0.0000
Day-Care Center	18935.1	0.0000	0.0000	0.0000	0.0000
General Office Building	29060	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	411172	0.0000	0.0000	0.0000	0.0000
Day-Care Center	18935.1	0.0000	0.0000	0.0000	0.0000
General Office Building	29060	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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	0.5085	0.0137	1.1718	6.0000e-005		6.3200e-003	6.3200e-003		6.3200e-003	6.3200e-003	0.0000	1.8880	1.8880	1.9300e-003	0.0000	1.9284
Unmitigated	0.5085	0.0137	1.1718	6.0000e-005		6.3200e-003	6.3200e-003		6.3200e-003	6.3200e-003	0.0000	1.8880	1.8880	1.9300e-003	0.0000	1.9284

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	0.0494					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0370	0.0137	1.1718	6.0000e-005		6.3200e-003	6.3200e-003		6.3200e-003	6.3200e-003	0.0000	1.8880	1.8880	1.9300e-003	0.0000	1.9284
Total	0.5085	0.0137	1.1718	6.0000e-005		6.3200e-003	6.3200e-003		6.3200e-003	6.3200e-003	0.0000	1.8880	1.8880	1.9300e-003	0.0000	1.9284

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	0.0494					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0370	0.0137	1.1718	6.0000e-005		6.3200e-003	6.3200e-003		6.3200e-003	6.3200e-003	0.0000	1.8880	1.8880	1.9300e-003	0.0000	1.9284
Total	0.5085	0.0137	1.1718	6.0000e-005		6.3200e-003	6.3200e-003		6.3200e-003	6.3200e-003	0.0000	1.8880	1.8880	1.9300e-003	0.0000	1.9284

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	1.9731	0.2027	4.7900e-003	7.7121
Unmitigated	2.4663	0.2533	5.9800e-003	9.6401

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	7.29725 / 4.60044	2.3151	0.2378	5.6100e-003	9.0490
Day-Care Center	0.121212 / 0.311688	0.0385	3.9500e-003	9.0000e-005	0.1503
General Office Building	0.355467 / 0.217867	0.1128	0.0116	2.7000e-004	0.4408
Total		2.4663	0.2533	5.9700e-003	9.6401

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	5.8378 / 4.31981	1.8521	0.1902	4.4900e-003	7.2392
Day-Care Center	0.0969696 / 0.292675	0.0308	3.1600e-003	7.0000e-005	0.1203
General Office Building	0.284374 / 0.204577	0.0902	9.2700e-003	2.2000e-004	0.3526
Total		1.9730	0.2027	4.7800e-003	7.7121

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	12.6890	0.7499	0.0000	28.4368
Unmitigated	12.6890	0.7499	0.0000	28.4368

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	51.52	10.4581	0.6181	0.0000	23.4373
Day-Care Center	9.13	1.8533	0.1095	0.0000	4.1534
General Office Building	1.86	0.3776	0.0223	0.0000	0.8461
Total		12.6890	0.7499	0.0000	28.4368

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	51.52	10.4581	0.6181	0.0000	23.4373
Day-Care Center	9.13	1.8533	0.1095	0.0000	4.1534
General Office Building	1.86	0.3776	0.0223	0.0000	0.8461
Total		12.6890	0.7499	0.0000	28.4368

9.0 Operational Offroad

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

Las Terrazas Residential Development

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2.00	1000sqft	0.41	2,000.00	0
Day-Care Center	50.00	Student	1.00	2,826.14	0
Apartments Low Rise	112.00	Dwelling Unit	5.00	112,000.00	320

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2016
Utility Company					
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Construction Phase - Assuming 7 days for remediation for conservative purposes

Off-road Equipment - 1 backhoe and 1 front-end loader

Grading - Site remediation

Trips and VMT - 4 on-site employees and 1 employee per truck. 35 haul trucks total

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Interior	7239	0
tblAreaCoating	Area_Residential_Exterior	75600	0

tblAreaCoating	Area_Residential_Interior	226800	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	0
tblConstructionPhase	NumDays	20.00	7.00
tblGrading	AcresOfGrading	0.00	6.41
tblLandUse	LotAcreage	0.05	0.41
tblLandUse	LotAcreage	0.06	1.00
tblLandUse	LotAcreage	7.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblTripsAndVMT	HaulingTripNumber	0.00	35.00
tblTripsAndVMT	WorkerTripNumber	15.00	39.00

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					
2016	3.2500e-003	0.0287	0.0291	5.0000e-005	5.2000e-003	1.8400e-003	7.0400e-003	8.5000e-004	1.6900e-003	2.5400e-003	0.0000	4.6386	4.6386	7.0000e-004	0.0000	4.6534
Total	3.2500e-003	0.0287	0.0291	5.0000e-005	5.2000e-003	1.8400e-003	7.0400e-003	8.5000e-004	1.6900e-003	2.5400e-003	0.0000	4.6386	4.6386	7.0000e-004	0.0000	4.6534

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					
2016	3.2500e-003	0.0287	0.0291	5.0000e-005	3.1200e-003	1.8400e-003	4.9700e-003	6.2000e-004	1.6900e-003	2.3200e-003	0.0000	4.6386	4.6386	7.0000e-004	0.0000	4.6534
Total	3.2500e-003	0.0287	0.0291	5.0000e-005	3.1200e-003	1.8400e-003	4.9700e-003	6.2000e-004	1.6900e-003	2.3200e-003	0.0000	4.6386	4.6386	7.0000e-004	0.0000	4.6534

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	40.00	0.00	29.40	27.06	0.00	8.66	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	tons/yr										MT/yr					
Area	0.8274	0.0230	1.8755	1.1800e-003		0.1133	0.1133		0.1133	0.1133	11.8965	24.7491	36.6456	0.0374	8.1000e-004	37.6814
Energy	8.8800e-003	0.0760	0.0334	4.8000e-004		6.1300e-003	6.1300e-003		6.1300e-003	6.1300e-003	0.0000	87.8662	87.8662	1.6800e-003	1.6100e-003	88.4009
Mobile	0.6062	1.8011	6.9501	0.0156	1.0680	0.0241	1.0921	0.2858	0.0221	0.3079	0.0000	1,245.1430	1,245.1430	0.0515	0.0000	1,246.2234
Waste						0.0000	0.0000		0.0000	0.0000	12.6890	0.0000	12.6890	0.7499	0.0000	28.4368

Water						0.0000	0.0000		0.0000	0.0000	2.4663	0.0000	2.4663	0.2533	5.9800e-003	9.6401
Total	1.4424	1.9001	8.8590	0.0173	1.0680	0.1435	1.2115	0.2858	0.1415	0.4273	27.0518	1,357.7582	1,384.8100	1.0937	8.4000e-003	1,410.3826

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	0.8274	0.0230	1.8755	1.1800e-003		0.1133	0.1133		0.1133	0.1133	11.8965	24.7491	36.6456	0.0374	8.1000e-004	37.6814
Energy	8.8800e-003	0.0760	0.0334	4.8000e-004		6.1300e-003	6.1300e-003		6.1300e-003	6.1300e-003	0.0000	87.8662	87.8662	1.6800e-003	1.6100e-003	88.4009
Mobile	0.6062	1.8011	6.9501	0.0156	1.0680	0.0241	1.0921	0.2858	0.0221	0.3079	0.0000	1,245.1430	1,245.1430	0.0515	0.0000	1,246.2234
Waste						0.0000	0.0000		0.0000	0.0000	12.6890	0.0000	12.6890	0.7499	0.0000	28.4368
Water						0.0000	0.0000		0.0000	0.0000	2.4663	0.0000	2.4663	0.2533	5.9800e-003	9.6401
Total	1.4424	1.9001	8.8590	0.0173	1.0680	0.1435	1.2115	0.2858	0.1415	0.4273	27.0518	1,357.7582	1,384.8100	1.0937	8.4000e-003	1,410.3826

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	7/1/2016	7/11/2016	5	7	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6.41

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	0.00	162	0.38
Grading	Graders	1	0.00	174	0.41
Grading	Concrete/Industrial Saws	1	0.00	81	0.73
Grading	Rubber Tired Dozers	1	0.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	6	39.00	0.00	35.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Grading - 2016

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					3.4000e-003	0.0000	3.4000e-003	3.7000e-004	0.0000	3.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3800e-003	0.0228	0.0169	2.0000e-005		1.7500e-003	1.7500e-003		1.6100e-003	1.6100e-003	0.0000	2.0555	2.0555	6.2000e-004	0.0000	2.0685
Total	2.3800e-003	0.0228	0.0169	2.0000e-005	3.4000e-003	1.7500e-003	5.1500e-003	3.7000e-004	1.6100e-003	1.9800e-003	0.0000	2.0555	2.0555	6.2000e-004	0.0000	2.0685

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	3.1000e-004	5.1000e-003	3.8300e-003	1.0000e-005	3.0000e-004	7.0000e-005	3.7000e-004	8.0000e-005	7.0000e-005	1.5000e-004	0.0000	1.1801	1.1801	1.0000e-005	0.0000	1.1802
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	5.5000e-004	8.0000e-004	8.3600e-003	2.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.4031	1.4031	8.0000e-005	0.0000	1.4047
Total	8.6000e-004	5.9000e-003	0.0122	3.0000e-005	1.8000e-003	8.0000e-005	1.8800e-003	4.8000e-004	8.0000e-005	5.6000e-004	0.0000	2.5831	2.5831	9.0000e-005	0.0000	2.5849

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					1.3300e-003	0.0000	1.3300e-003	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3800e-003	0.0228	0.0169	2.0000e-005		1.7500e-003	1.7500e-003		1.6100e-003	1.6100e-003	0.0000	2.0554	2.0554	6.2000e-004	0.0000	2.0685
Total	2.3800e-003	0.0228	0.0169	2.0000e-005	1.3300e-003	1.7500e-003	3.0800e-003	1.4000e-004	1.6100e-003	1.7500e-003	0.0000	2.0554	2.0554	6.2000e-004	0.0000	2.0685

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	3.1000e-004	5.1000e-003	3.8300e-003	1.0000e-005	3.0000e-004	7.0000e-005	3.7000e-004	8.0000e-005	7.0000e-005	1.5000e-004	0.0000	1.1801	1.1801	1.0000e-005	0.0000	1.1802
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	5.5000e-004	8.0000e-004	8.3600e-003	2.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.4031	1.4031	8.0000e-005	0.0000	1.4047
Total	8.6000e-004	5.9000e-003	0.0122	3.0000e-005	1.8000e-003	8.0000e-005	1.8800e-003	4.8000e-004	8.0000e-005	5.6000e-004	0.0000	2.5831	2.5831	9.0000e-005	0.0000	2.5849

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	0.6062	1.8011	6.9501	0.0156	1.0680	0.0241	1.0921	0.2858	0.0221	0.3079	0.0000	1,245.1430	1,245.1430	0.0515	0.0000	1,246.2234
Unmitigated	0.6062	1.8011	6.9501	0.0156	1.0680	0.0241	1.0921	0.2858	0.0221	0.3079	0.0000	1,245.1430	1,245.1430	0.0515	0.0000	1,246.2234

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT

Apartments Low Rise	738.08	801.92	679.84	2,524,865	2,524,865
Day-Care Center	224.00	19.50	18.50	240,546	240,546
General Office Building	22.02	4.74	1.96	53,752	53,752
Total	984.10	826.16	700.30	2,819,164	2,819,164

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Day-Care Center	16.60	8.40	6.90	12.70	82.30	5.00	28	58	14
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.514315	0.060290	0.180146	0.139458	0.042007	0.006636	0.015782	0.029894	0.001929	0.002512	0.004343	0.000595	0.002093

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive 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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	8.8800e-003	0.0760	0.0334	4.8000e-004		6.1300e-003	6.1300e-003		6.1300e-003	6.1300e-003	0.0000	87.8662	87.8662	1.6800e-003	1.6100e-003	88.4009
NaturalGas Unmitigated	8.8800e-003	0.0760	0.0334	4.8000e-004		6.1300e-003	6.1300e-003		6.1300e-003	6.1300e-003	0.0000	87.8662	87.8662	1.6800e-003	1.6100e-003	88.4009

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					
Day-Care Center	30776.7	1.7000e-004	1.5100e-003	1.2700e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6424	1.6424	3.0000e-005	3.0000e-005	1.6524
General Office Building	21860	1.2000e-004	1.0700e-003	9.0000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1665	1.1665	2.0000e-005	2.0000e-005	1.1736
Apartments Low Rise	1.59391e+006	8.5900e-003	0.0735	0.0313	4.7000e-004		5.9400e-003	5.9400e-003		5.9400e-003	5.9400e-003	0.0000	85.0573	85.0573	1.6300e-003	1.5600e-003	85.5749
Total		8.8800e-003	0.0760	0.0334	4.9000e-004		6.1300e-003	6.1300e-003		6.1300e-003	6.1300e-003	0.0000	87.8662	87.8662	1.6800e-003	1.6100e-003	88.4009

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					
Day-Care Center	30776.7	1.7000e-004	1.5100e-003	1.2700e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6424	1.6424	3.0000e-005	3.0000e-005	1.6524
General Office Building	21860	1.2000e-004	1.0700e-003	9.0000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1665	1.1665	2.0000e-005	2.0000e-005	1.1736
Apartments Low Rise	1.59391e+006	8.5900e-003	0.0735	0.0313	4.7000e-004		5.9400e-003	5.9400e-003		5.9400e-003	5.9400e-003	0.0000	85.0573	85.0573	1.6300e-003	1.5600e-003	85.5749
Total		8.8800e-003	0.0760	0.0334	4.9000e-004		6.1300e-003	6.1300e-003		6.1300e-003	6.1300e-003	0.0000	87.8662	87.8662	1.6800e-003	1.6100e-003	88.4009

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartment Low Rise	411172	0.0000	0.0000	0.0000	0.0000
Day-Care Center	18935.1	0.0000	0.0000	0.0000	0.0000
General Office Building	29060	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartment Low Rise	411172	0.0000	0.0000	0.0000	0.0000
Day-Care Center	18935.1	0.0000	0.0000	0.0000	0.0000
General Office Building	29060	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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	0.8274	0.0230	1.8755	1.1800e-003		0.1133	0.1133		0.1133	0.1133	11.8965	24.7491	36.6456	0.0374	8.1000e-004	37.6814
Unmitigated	0.8274	0.0230	1.8755	1.1800e-003		0.1133	0.1133		0.1133	0.1133	11.8965	24.7491	36.6456	0.0374	8.1000e-004	37.6814

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	1.4000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.3669	9.3100e-003	0.7037	1.1200e-003		0.1069	0.1069		0.1069	0.1069	11.8965	22.8611	34.7576	0.0355	8.1000e-004	35.7529
Landscaping	0.0370	0.0137	1.1718	6.0000e-005		6.3200e-003	6.3200e-003		6.3200e-003	6.3200e-003	0.0000	1.8880	1.8880	1.9300e-003	0.0000	1.9284
Total	0.8274	0.0230	1.8755	1.1800e-003		0.1133	0.1133		0.1133	0.1133	11.8965	24.7491	36.6456	0.0374	8.1000e-004	37.6814

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	1.4000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Consumer Products	0.4222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.3669	9.3100e-003	0.7037	1.1200e-003		0.1069	0.1069		0.1069	0.1069	11.8965	22.8611	34.7576	0.0355	8.1000e-004	35.7529
Landscaping	0.0370	0.0137	1.1718	6.0000e-005		6.3200e-003	6.3200e-003		6.3200e-003	6.3200e-003	0.0000	1.8880	1.8880	1.9300e-003	0.0000	1.9284
Total	0.8274	0.0230	1.8755	1.1800e-003		0.1133	0.1133		0.1133	0.1133	11.8965	24.7491	36.6456	0.0374	8.1000e-004	37.6814

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.4663	0.2533	5.9800e-003	9.6401
Unmitigated	2.4663	0.2533	5.9800e-003	9.6401

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	7.29725 / 4.60044	2.3151	0.2378	5.6100e-003	9.0490
Day-Care Center	0.121212 / 0.311688	0.0385	3.9500e-003	9.0000e-005	0.1503
General Office Building	0.355467 / 0.217867	0.1128	0.0116	2.7000e-004	0.4408

Total		2.4663	0.2533	5.9700e-003	9.6401
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Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartment Low Rise	7.29725 / 4.60044	2.3151	0.2378	5.6100e-003	9.0490
Day-Care Center	0.121212 / 0.311688	0.0385	3.9500e-003	9.0000e-005	0.1503
General Office Building	0.355467 / 0.217867	0.1128	0.0116	2.7000e-004	0.4408
Total		2.4663	0.2533	5.9700e-003	9.6401

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	12.6890	0.7499	0.0000	28.4368
Mitigated	12.6890	0.7499	0.0000	28.4368

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	51.52	10.4581	0.6181	0.0000	23.4373
Day-Care Center	9.13	1.8533	0.1095	0.0000	4.1534
General Office Building	1.86	0.3776	0.0223	0.0000	0.8461
Total		12.6890	0.7499	0.0000	28.4368

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	51.52	10.4581	0.6181	0.0000	23.4373
Day-Care Center	9.13	1.8533	0.1095	0.0000	4.1534
General Office Building	1.86	0.3776	0.0223	0.0000	0.8461
Total		12.6890	0.7499	0.0000	28.4368

9.0 Operational Offroad

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

Appendix B

AERMOD and HARP2 Health Risk Assessment Modeling Files

AERMOD Model Output File

Las Terrazas Health Risk Assessment

**BEE-Line Software: BEEST Suite (Version 11.04) data input file
** Model: AERMOD.EXE Input File Creation Date: 3/31/2016 Time: 11:17:53 AM
NO ECHO

BEE-Line AERMOD "BEEST" Version ****

Input File - C:\BEEST\Las Terrazas\Las Terrazas HRA factors.DTA

Output File - C:\BEEST\Las Terrazas\Las Terrazas HRA factors.LST

Met File - d:\MetData\font8.sfc

*** SETUP Finishes Successfully ***

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**MODELOPTs: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** 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 136 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 53243.0 ; 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:
TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: OTHER

**Model Calculates 1 Short Term Average(s) of: 1-HR
and Calculates PERIOD Averages

**This Run Includes: 136 Source(s); 136 Source Group(s); and 40 Receptor(s)
with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 136 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 OPENPIT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 14134

**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) = 367.00 ; 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: Las Terrazas HRA factors.DTA
**Output Print File: Las Terrazas HRA factors.LST

**File for Summary of Results: C:\BEEST\Las Terrazas\Las Terrazas HRA factors.SUM

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** VOLUME SOURCE DATA ***

EMISSION RATE	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.	URBAN
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ	SOURCE
SCALAR VARY									
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
BY									
FWYEB1	0	0.10000E+01	467670.0	3769865.0	318.6	4.57	5.81	2.13	YES
FWYEB2	0	0.10000E+01	467695.0	3769864.0	318.3	4.57	5.81	2.13	YES
FWYEB3	0	0.10000E+01	467720.0	3769863.0	318.0	4.57	5.81	2.13	YES
FWYEB4	0	0.10000E+01	467744.9	3769862.0	317.9	4.57	5.81	2.13	YES
FWYEB5	0	0.10000E+01	467769.9	3769861.0	317.5	4.57	5.81	2.13	YES
FWYEB6	0	0.10000E+01	467794.9	3769860.0	317.1	4.57	5.81	2.13	YES
FWYEB7	0	0.10000E+01	467819.9	3769859.0	317.0	4.57	5.81	2.13	YES
FWYEB8	0	0.10000E+01	467844.9	3769858.0	317.0	4.57	5.81	2.13	YES
FWYEB9	0	0.10000E+01	467869.8	3769857.0	316.7	4.57	5.81	2.13	YES
FWYEB10	0	0.10000E+01	467894.8	3769855.0	315.7	4.57	5.81	2.13	YES
FWYEB11	0	0.10000E+01	467919.8	3769854.0	314.0	4.57	5.81	2.13	YES
FWYEB12	0	0.10000E+01	467944.8	3769853.0	313.3	4.57	5.81	2.13	YES
FWYEB13	0	0.10000E+01	467969.8	3769852.0	312.5	4.57	5.81	2.13	YES
FWYEB14	0	0.10000E+01	467994.7	3769851.0	312.2	4.57	5.81	2.13	YES
FWYEB15	0	0.10000E+01	468019.7	3769850.0	312.4	4.57	5.81	2.13	YES
FWYEB16	0	0.10000E+01	468044.6	3769848.0	313.1	4.57	5.81	2.13	YES
FWYEB17	0	0.10000E+01	468069.5	3769846.0	313.0	4.57	5.81	2.13	YES
FWYEB18	0	0.10000E+01	468094.4	3769844.0	312.9	4.57	5.81	2.13	YES
FWYEB19	0	0.10000E+01	468119.3	3769842.0	312.9	4.57	5.81	2.13	YES
FWYEB20	0	0.10000E+01	468144.3	3769840.0	312.8	4.57	5.81	2.13	YES
FWYEB21	0	0.10000E+01	468169.2	3769838.0	312.9	4.57	5.81	2.13	YES
FWYEB22	0	0.10000E+01	468194.1	3769836.0	313.3	4.57	5.81	2.13	YES
FWYEB23	0	0.10000E+01	468219.0	3769834.0	313.2	4.57	5.81	2.13	YES
FWYEB24	0	0.10000E+01	468243.9	3769832.0	312.6	4.57	5.81	2.13	YES
FWYEB25	0	0.10000E+01	468268.9	3769830.0	312.4	4.57	5.81	2.13	YES
FWYEB26	0	0.10000E+01	468293.8	3769828.0	311.9	4.57	5.81	2.13	YES
FWYEB27	0	0.10000E+01	468318.7	3769826.0	311.3	4.57	5.81	2.13	YES
FWYEB28	0	0.10000E+01	468343.6	3769824.0	311.2	4.57	5.81	2.13	YES
FWYEB29	0	0.10000E+01	468368.5	3769822.0	311.0	4.57	5.81	2.13	YES
FWYEB30	0	0.10000E+01	468393.5	3769820.0	310.3	4.57	5.81	2.13	YES
FWYEB31	0	0.10000E+01	468418.4	3769818.0	310.0	4.57	5.81	2.13	YES
FWYEB32	0	0.10000E+01	468443.3	3769816.0	310.0	4.57	5.81	2.13	YES
FWYEB33	0	0.10000E+01	468468.2	3769814.0	309.7	4.57	5.81	2.13	YES
FWYEB34	0	0.10000E+01	468493.1	3769812.0	309.0	4.57	5.81	2.13	YES
FWYEB35	0	0.10000E+01	468518.1	3769811.0	309.0	4.57	5.81	2.13	YES
FWYEB36	0	0.10000E+01	468543.0	3769809.0	308.8	4.57	5.81	2.13	YES
FWYEB37	0	0.10000E+01	468568.0	3769807.0	308.7	4.57	5.81	2.13	YES
FWYEB38	0	0.10000E+01	468592.9	3769805.0	308.2	4.57	5.81	2.13	YES
FWYEB39	0	0.10000E+01	468617.8	3769803.0	307.6	4.57	5.81	2.13	YES
FWYEB40	0	0.10000E+01	468642.7	3769801.0	307.5	4.57	5.81	2.13	YES

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**MODELOPTs: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** VOLUME SOURCE DATA ***

EMISSION RATE	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.	URBAN
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ	SOURCE
SCALAR VARY									
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
BY									
FWYEB41	0	0.10000E+01	468667.6	3769799.0	307.4	4.57	5.81	2.13	YES
FWYEB42	0	0.10000E+01	468692.6	3769797.0	306.9	4.57	5.81	2.13	YES
FWYEB43	0	0.10000E+01	468717.5	3769795.0	306.4	4.57	5.81	2.13	YES
FWYEB44	0	0.10000E+01	468742.4	3769793.0	306.1	4.57	5.81	2.13	YES
FWYEB45	0	0.10000E+01	468766.9	3769788.0	305.8	4.57	5.81	2.13	YES
FWYEB46	0	0.10000E+01	468791.4	3769783.0	305.1	4.57	5.81	2.13	YES
FWYEB47	0	0.10000E+01	468815.4	3769776.0	305.1	4.57	5.81	2.13	YES
FWYEB48	0	0.10000E+01	468839.4	3769769.0	305.0	4.57	5.81	2.13	YES
FWYEB49	0	0.10000E+01	468863.4	3769762.0	305.0	4.57	5.81	2.13	YES
FWYEB50	0	0.10000E+01	468887.4	3769755.0	305.0	4.57	5.81	2.13	YES
FWYEB51	0	0.10000E+01	468910.7	3769746.0	305.0	4.57	5.81	2.13	YES
FWYEB52	0	0.10000E+01	468934.0	3769737.0	305.0	4.57	5.81	2.13	YES
FWYEB53	0	0.10000E+01	468957.4	3769728.0	305.0	4.57	5.81	2.13	YES
FWYEB54	0	0.10000E+01	468980.7	3769719.0	305.0	4.57	5.81	2.13	YES
FWYEB55	0	0.10000E+01	469004.0	3769710.0	305.2	4.57	5.81	2.13	YES
FWYWB1	0	0.10000E+01	467670.0	3769841.5	317.8	4.57	5.81	2.13	YES
FWYWB2	0	0.10000E+01	467695.0	3769840.5	317.8	4.57	5.81	2.13	YES
FWYWB3	0	0.10000E+01	467720.0	3769839.5	317.7	4.57	5.81	2.13	YES
FWYWB4	0	0.10000E+01	467744.9	3769838.5	317.5	4.57	5.81	2.13	YES
FWYWB5	0	0.10000E+01	467769.9	3769837.5	317.4	4.57	5.81	2.13	YES
FWYWB6	0	0.10000E+01	467794.9	3769836.5	316.8	4.57	5.81	2.13	YES
FWYWB7	0	0.10000E+01	467819.9	3769835.5	316.6	4.57	5.81	2.13	YES
FWYWB8	0	0.10000E+01	467844.9	3769834.5	316.6	4.57	5.81	2.13	YES
FWYWB9	0	0.10000E+01	467869.8	3769833.5	316.1	4.57	5.81	2.13	YES
FWYWB10	0	0.10000E+01	467894.8	3769832.5	314.7	4.57	5.81	2.13	YES
FWYWB11	0	0.10000E+01	467919.8	3769831.5	313.0	4.57	5.81	2.13	YES
FWYWB12	0	0.10000E+01	467944.8	3769830.5	312.5	4.57	5.81	2.13	YES
FWYWB13	0	0.10000E+01	467969.8	3769829.5	312.1	4.57	5.81	2.13	YES
FWYWB14	0	0.10000E+01	467994.7	3769828.5	312.0	4.57	5.81	2.13	YES
FWYWB15	0	0.10000E+01	468019.7	3769826.5	312.1	4.57	5.81	2.13	YES
FWYWB16	0	0.10000E+01	468044.6	3769824.5	312.3	4.57	5.81	2.13	YES
FWYWB17	0	0.10000E+01	468069.5	3769822.5	312.2	4.57	5.81	2.13	YES
FWYWB18	0	0.10000E+01	468094.4	3769820.5	312.1	4.57	5.81	2.13	YES
FWYWB19	0	0.10000E+01	468119.3	3769818.5	312.1	4.57	5.81	2.13	YES
FWYWB20	0	0.10000E+01	468144.3	3769816.5	312.0	4.57	5.81	2.13	YES
FWYWB21	0	0.10000E+01	468169.2	3769814.5	311.9	4.57	5.81	2.13	YES
FWYWB22	0	0.10000E+01	468194.1	3769812.5	311.9	4.57	5.81	2.13	YES
FWYWB23	0	0.10000E+01	468219.0	3769810.5	312.0	4.57	5.81	2.13	YES
FWYWB24	0	0.10000E+01	468243.9	3769808.5	311.8	4.57	5.81	2.13	YES
FWYWB25	0	0.10000E+01	468268.9	3769806.5	311.7	4.57	5.81	2.13	YES

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** VOLUME SOURCE DATA ***

EMISSION RATE	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.	URBAN
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ	SOURCE
SCALAR VARY									
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
BY									
FWYWB26	0	0.10000E+01	468293.8	3769804.5	311.3	4.57	5.81	2.13	YES
FWYWB27	0	0.10000E+01	468318.7	3769802.5	311.0	4.57	5.81	2.13	YES
FWYWB28	0	0.10000E+01	468343.6	3769800.5	310.9	4.57	5.81	2.13	YES
FWYWB29	0	0.10000E+01	468368.5	3769798.5	310.4	4.57	5.81	2.13	YES
FWYWB30	0	0.10000E+01	468393.5	3769796.5	310.1	4.57	5.81	2.13	YES
FWYWB31	0	0.10000E+01	468418.4	3769794.5	310.0	4.57	5.81	2.13	YES
FWYWB32	0	0.10000E+01	468443.3	3769792.5	309.6	4.57	5.81	2.13	YES
FWYWB33	0	0.10000E+01	468468.2	3769790.5	309.1	4.57	5.81	2.13	YES
FWYWB34	0	0.10000E+01	468493.1	3769788.5	309.0	4.57	5.81	2.13	YES
FWYWB35	0	0.10000E+01	468518.1	3769787.5	309.0	4.57	5.81	2.13	YES
FWYWB36	0	0.10000E+01	468543.0	3769785.5	308.2	4.57	5.81	2.13	YES
FWYWB37	0	0.10000E+01	468568.0	3769783.5	308.0	4.57	5.81	2.13	YES
FWYWB38	0	0.10000E+01	468592.9	3769781.5	307.6	4.57	5.81	2.13	YES
FWYWB39	0	0.10000E+01	468617.8	3769779.5	307.2	4.57	5.81	2.13	YES
FWYWB40	0	0.10000E+01	468642.7	3769777.5	307.0	4.57	5.81	2.13	YES
FWYWB41	0	0.10000E+01	468667.6	3769775.5	307.0	4.57	5.81	2.13	YES
FWYWB42	0	0.10000E+01	468692.6	3769773.5	306.6	4.57	5.81	2.13	YES
FWYWB43	0	0.10000E+01	468717.5	3769771.5	306.2	4.57	5.81	2.13	YES
FWYWB44	0	0.10000E+01	468742.4	3769769.5	306.0	4.57	5.81	2.13	YES
FWYWB45	0	0.10000E+01	468766.9	3769764.5	305.9	4.57	5.81	2.13	YES
FWYWB46	0	0.10000E+01	468791.4	3769759.5	305.9	4.57	5.81	2.13	YES
FWYWB47	0	0.10000E+01	468815.4	3769752.5	305.2	4.57	5.81	2.13	YES
FWYWB48	0	0.10000E+01	468839.4	3769745.5	305.1	4.57	5.81	2.13	YES
FWYWB49	0	0.10000E+01	468863.4	3769738.5	305.0	4.57	5.81	2.13	YES
FWYWB50	0	0.10000E+01	468887.4	3769731.5	305.0	4.57	5.81	2.13	YES
FWYWB51	0	0.10000E+01	468910.7	3769722.5	305.0	4.57	5.81	2.13	YES
FWYWB52	0	0.10000E+01	468934.0	3769713.5	305.0	4.57	5.81	2.13	YES
FWYWB53	0	0.10000E+01	468957.4	3769704.5	305.0	4.57	5.81	2.13	YES
FWYWB54	0	0.10000E+01	468980.7	3769695.5	305.0	4.57	5.81	2.13	YES
FWYWB55	0	0.10000E+01	469004.0	3769686.5	305.4	4.57	5.81	2.13	YES
RAIL1	0	0.10000E+01	468252.0	3769673.0	308.2	4.57	5.81	2.13	YES
RAIL2	0	0.10000E+01	468259.0	3769697.0	309.3	4.57	5.81	2.13	YES
RAIL3	0	0.10000E+01	468259.0	3769722.0	310.2	4.57	5.81	2.13	YES
RAIL4	0	0.10000E+01	468254.0	3769746.5	310.7	4.57	5.81	2.13	YES
RAIL5	0	0.10000E+01	468247.0	3769770.5	311.0	4.57	5.81	2.13	YES
RAIL6	0	0.10000E+01	468240.0	3769794.5	311.5	4.57	5.81	2.13	YES
RAIL7	0	0.10000E+01	468233.0	3769818.5	312.1	4.57	5.81	2.13	YES
RAIL8	0	0.10000E+01	468227.6	3769842.9	313.5	4.57	5.81	2.13	YES
RAIL9	0	0.10000E+01	468225.3	3769867.8	315.2	4.57	5.81	2.13	YES
RAIL10	0	0.10000E+01	468223.8	3769892.8	316.3	4.57	5.81	2.13	YES

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
 *** 03/31/16
 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** VOLUME SOURCE DATA ***

EMISSION RATE	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.	URBAN
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ	SOURCE
SCALAR VARY									
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
BY									
RAIL11	0	0.10000E+01	468222.5	3769917.7	316.7	4.57	5.81	2.13	YES
RAIL12	0	0.10000E+01	468222.5	3769942.7	316.7	4.57	5.81	2.13	YES
RAIL13	0	0.10000E+01	468222.5	3769967.7	316.7	4.57	5.81	2.13	YES
RAIL14	0	0.10000E+01	468224.1	3769992.7	316.7	4.57	5.81	2.13	YES
RAIL15	0	0.10000E+01	468224.1	3770017.7	316.8	4.57	5.81	2.13	YES
RAIL16	0	0.10000E+01	468224.1	3770042.7	316.9	4.57	5.81	2.13	YES
RAIL17	0	0.10000E+01	468224.1	3770067.7	317.2	4.57	5.81	2.13	YES
RAIL18	0	0.10000E+01	468224.1	3770092.7	317.7	4.57	5.81	2.13	YES
RAIL19	0	0.10000E+01	468224.1	3770117.7	317.7	4.57	5.81	2.13	YES
RAIL20	0	0.10000E+01	468224.1	3770142.7	317.7	4.57	5.81	2.13	YES
RAIL21	0	0.10000E+01	468225.7	3770167.6	318.2	4.57	5.81	2.13	YES
RAIL22	0	0.10000E+01	468225.7	3770192.6	318.4	4.57	5.81	2.13	YES
RAIL23	0	0.10000E+01	468225.7	3770217.6	318.5	4.57	5.81	2.13	YES
RAIL24	0	0.10000E+01	468225.7	3770242.6	318.8	4.57	5.81	2.13	YES
RAIL25	0	0.10000E+01	468225.7	3770267.6	319.4	4.57	5.81	2.13	YES
QUARRY	0	0.10000E+01	468240.7	3769258.4	286.6	1.00	11.63	2.13	YES
HROFDY									

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*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
-----	-----
FWYEB1	FWYEB1 ,
FWYEB2	FWYEB2 ,
FWYEB3	FWYEB3 ,
FWYEB4	FWYEB4 ,
FWYEB5	FWYEB5 ,
FWYEB6	FWYEB6 ,
FWYEB7	FWYEB7 ,
FWYEB8	FWYEB8 ,
FWYEB9	FWYEB9 ,
FWYEB10	FWYEB10 ,
FWYEB11	FWYEB11 ,
FWYEB12	FWYEB12 ,
FWYEB13	FWYEB13 ,
FWYEB14	FWYEB14 ,
FWYEB15	FWYEB15 ,
FWYEB16	FWYEB16 ,
FWYEB17	FWYEB17 ,
FWYEB18	FWYEB18 ,
FWYEB19	FWYEB19 ,
FWYEB20	FWYEB20 ,

```

*** AERMOD - VERSION 15181 ***   *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
-----	-----
FWYEB21	FWYEB21 ,
FWYEB22	FWYEB22 ,
FWYEB23	FWYEB23 ,
FWYEB24	FWYEB24 ,
FWYEB25	FWYEB25 ,
FWYEB26	FWYEB26 ,
FWYEB27	FWYEB27 ,
FWYEB28	FWYEB28 ,
FWYEB29	FWYEB29 ,
FWYEB30	FWYEB30 ,
FWYEB31	FWYEB31 ,
FWYEB32	FWYEB32 ,
FWYEB33	FWYEB33 ,
FWYEB34	FWYEB34 ,
FWYEB35	FWYEB35 ,
FWYEB36	FWYEB36 ,
FWYEB37	FWYEB37 ,
FWYEB38	FWYEB38 ,
FWYEB39	FWYEB39 ,
FWYEB40	FWYEB40 ,

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*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
-----	-----
FWYEB41	FWYEB41 ,
FWYEB42	FWYEB42 ,
FWYEB43	FWYEB43 ,
FWYEB44	FWYEB44 ,
FWYEB45	FWYEB45 ,
FWYEB46	FWYEB46 ,
FWYEB47	FWYEB47 ,
FWYEB48	FWYEB48 ,
FWYEB49	FWYEB49 ,
FWYEB50	FWYEB50 ,
FWYEB51	FWYEB51 ,
FWYEB52	FWYEB52 ,
FWYEB53	FWYEB53 ,
FWYEB54	FWYEB54 ,
FWYEB55	FWYEB55 ,
FWYWB1	FWYWB1 ,
FWYWB2	FWYWB2 ,
FWYWB3	FWYWB3 ,
FWYWB4	FWYWB4 ,
FWYWB5	FWYWB5 ,

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*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
-----	-----
FWYWB6	FWYWB6 ,
FWYWB7	FWYWB7 ,
FWYWB8	FWYWB8 ,
FWYWB9	FWYWB9 ,
FWYWB10	FWYWB10 ,
FWYWB11	FWYWB11 ,
FWYWB12	FWYWB12 ,
FWYWB13	FWYWB13 ,
FWYWB14	FWYWB14 ,
FWYWB15	FWYWB15 ,
FWYWB16	FWYWB16 ,
FWYWB17	FWYWB17 ,
FWYWB18	FWYWB18 ,
FWYWB19	FWYWB19 ,
FWYWB20	FWYWB20 ,
FWYWB21	FWYWB21 ,
FWYWB22	FWYWB22 ,
FWYWB23	FWYWB23 ,
FWYWB24	FWYWB24 ,
FWYWB25	FWYWB25 ,


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*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
-----	-----
FWYWB26	FWYWB26 ,
FWYWB27	FWYWB27 ,
FWYWB28	FWYWB28 ,
FWYWB29	FWYWB29 ,
FWYWB30	FWYWB30 ,
FWYWB31	FWYWB31 ,
FWYWB32	FWYWB32 ,
FWYWB33	FWYWB33 ,
FWYWB34	FWYWB34 ,
FWYWB35	FWYWB35 ,
FWYWB36	FWYWB36 ,
FWYWB37	FWYWB37 ,
FWYWB38	FWYWB38 ,
FWYWB39	FWYWB39 ,
FWYWB40	FWYWB40 ,
FWYWB41	FWYWB41 ,
FWYWB42	FWYWB42 ,
FWYWB43	FWYWB43 ,
FWYWB44	FWYWB44 ,
FWYWB45	FWYWB45 ,

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*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
-----	-----

FWYWB46	FWYWB46	,
FWYWB47	FWYWB47	,
FWYWB48	FWYWB48	,
FWYWB49	FWYWB49	,
FWYWB50	FWYWB50	,
FWYWB51	FWYWB51	,
FWYWB52	FWYWB52	,
FWYWB53	FWYWB53	,
FWYWB54	FWYWB54	,
FWYWB55	FWYWB55	,
RAIL1	RAIL1	,
RAIL2	RAIL2	,
RAIL3	RAIL3	,
RAIL4	RAIL4	,
RAIL5	RAIL5	,
RAIL6	RAIL6	,
RAIL7	RAIL7	,
RAIL8	RAIL8	,
RAIL9	RAIL9	,
RAIL10	RAIL10	,

```

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs:  RegDEFAULT CONC      ELEV      NODRYDPLT NOWETDPLT URBAN

```

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
-----	-----
RAIL11	RAIL11 ,
RAIL12	RAIL12 ,
RAIL13	RAIL13 ,
RAIL14	RAIL14 ,
RAIL15	RAIL15 ,
RAIL16	RAIL16 ,
RAIL17	RAIL17 ,
RAIL18	RAIL18 ,
RAIL19	RAIL19 ,
RAIL20	RAIL20 ,
RAIL21	RAIL21 ,
RAIL22	RAIL22 ,
RAIL23	RAIL23 ,
RAIL24	RAIL24 ,
RAIL25	RAIL25 ,
QUARRY	QUARRY ,

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs							
-----	-----	-----							
	53243.	FWYEB1	,	FWYEB2	,	FWYEB3	,	FWYEB4	,
FWYEB6	, FWYEB7	,							
FWYEB8	,								
	FWYEB9	,	FWYEB10	,	FWYEB11	,	FWYEB12	,	FWYEB13
FWYEB15	, FWYEB16	,							
	FWYEB17	,	FWYEB18	,	FWYEB19	,	FWYEB20	,	FWYEB21
FWYEB23	, FWYEB24	,							
	FWYEB25	,	FWYEB26	,	FWYEB27	,	FWYEB28	,	FWYEB29
FWYEB31	, FWYEB32	,							
	FWYEB33	,	FWYEB34	,	FWYEB35	,	FWYEB36	,	FWYEB37
FWYEB39	, FWYEB40	,							
	FWYEB41	,	FWYEB42	,	FWYEB43	,	FWYEB44	,	FWYEB45
FWYEB47	, FWYEB48	,							
	FWYEB49	,	FWYEB50	,	FWYEB51	,	FWYEB52	,	FWYEB53
FWYEB55	, FWYWB1	,							
	FWYWB2	,	FWYWB3	,	FWYWB4	,	FWYWB5	,	FWYWB6
FWYWB8	, FWYWB9	,							
	FWYWB10	,	FWYWB11	,	FWYWB12	,	FWYWB13	,	FWYWB14
FWYWB16	, FWYWB17	,							
	FWYWB18	,	FWYWB19	,	FWYWB20	,	FWYWB21	,	FWYWB22
FWYWB24	, FWYWB25	,							
	FWYWB26	,	FWYWB27	,	FWYWB28	,	FWYWB29	,	FWYWB30
FWYWB32	, FWYWB33	,							
	FWYWB34	,	FWYWB35	,	FWYWB36	,	FWYWB37	,	FWYWB38
FWYWB40	, FWYWB41	,							
	FWYWB42	,	FWYWB43	,	FWYWB44	,	FWYWB45	,	FWYWB46
FWYWB48	, FWYWB49	,							
	FWYWB50	,	FWYWB51	,	FWYWB52	,	FWYWB53	,	FWYWB54
RAIL1	, RAIL2	,							
	RAIL3	,	RAIL4	,	RAIL5	,	RAIL6	,	RAIL7
RAIL9	, RAIL10	,							
	RAIL11	,	RAIL12	,	RAIL13	,	RAIL14	,	RAIL15
RAIL17	, RAIL18	,							
	RAIL19	,	RAIL20	,	RAIL21	,	RAIL22	,	RAIL23
RAIL25	, QUARRY	,							

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*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR
1	2	3	4	5	6	7	8	9

```

SOURCE ID = QUARRY ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .20000E+01 5
.20000E+01 6 .20000E+01
7 .20000E+01 8 .20000E+01 9 .20000E+01 10 .20000E+01 11
.20000E+01 12 .20000E+01
13 .20000E+01 14 .20000E+01 15 .20000E+01 16 .00000E+00 17
.00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00 23
.00000E+00 24 .00000E+00

```

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
 (METERS)

(468330.0, 3769866.7,	311.3,	395.0,	0.0);	(468355.0, 3769866.7,
311.2, 395.0, 0.0);				
(468380.0, 3769866.7,	310.8,	395.0,	0.0);	(468405.0, 3769866.7,
310.3, 395.0, 0.0);				
(468430.0, 3769866.7,	310.0,	395.0,	0.0);	(468330.0, 3769891.7,
310.7, 395.0, 0.0);				
(468355.0, 3769891.7,	310.5,	395.0,	0.0);	(468380.0, 3769891.7,
310.3, 395.0, 0.0);				
(468405.0, 3769891.7,	310.0,	395.0,	0.0);	(468430.0, 3769891.7,
310.0, 395.0, 0.0);				
(468330.0, 3769916.7,	310.3,	395.0,	0.0);	(468355.0, 3769916.7,
310.0, 395.0, 0.0);				
(468380.0, 3769916.7,	310.0,	395.0,	0.0);	(468405.0, 3769916.7,
310.0, 395.0, 0.0);				
(468430.0, 3769916.7,	310.0,	395.0,	0.0);	(468330.0, 3769941.7,
310.3, 395.0, 0.0);				
(468355.0, 3769941.7,	310.0,	395.0,	0.0);	(468380.0, 3769941.7,
310.0, 395.0, 0.0);				
(468405.0, 3769941.7,	310.0,	395.0,	0.0);	(468430.0, 3769941.7,
310.0, 395.0, 0.0);				
(468330.0, 3769966.7,	310.3,	395.0,	0.0);	(468355.0, 3769966.7,
310.0, 395.0, 0.0);				
(468380.0, 3769966.7,	310.0,	395.0,	0.0);	(468405.0, 3769966.7,
310.0, 395.0, 0.0);				
(468430.0, 3769966.7,	310.0,	395.0,	0.0);	(468330.0, 3769991.7,
310.3, 377.0, 0.0);				
(468355.0, 3769991.7,	310.0,	394.0,	0.0);	(468380.0, 3769991.7,
310.0, 394.0, 0.0);				
(468330.0, 3770016.7,	310.8,	377.0,	0.0);	(468355.0, 3770016.7,
310.3, 377.0, 0.0);				
(468380.0, 3770016.7,	310.0,	377.0,	0.0);	(468330.0, 3770041.7,
311.2, 377.0, 0.0);				
(468355.0, 3770041.7,	310.8,	377.0,	0.0);	(468380.0, 3770041.7,
310.3, 377.0, 0.0);				
(468330.0, 3770066.7,	311.3,	311.3,	0.0);	(468355.0, 3770066.7,
311.0, 377.0, 0.0);				
(468380.0, 3770066.7,	310.8,	377.0,	0.0);	(468330.0, 3770091.7,
311.5, 311.5, 0.0);				
(468355.0, 3770091.7,	311.2,	311.2,	0.0);	(468380.0, 3770091.7,
311.1, 311.1, 0.0);				

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: font8.sfc
 Met Version: 14134
 Profile file: font8.PFL
 Surface format: FREE
 Profile format: FREE
 Surface station no.: 0 Upper air station no.: 3190
 Name: UNKNOWN Name: UNKNOWN
 Year: 2008 Year: 2008

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													
08	01	01	1	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	1.00	999.00		
999.	-9.0	999.0	-9.0														
08	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	1.00	999.00		
999.	-9.0	999.0	-9.0														
08	01	01	1	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	1.00	999.00		
999.	-9.0	999.0	-9.0														
08	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	1.00	999.00		
999.	-9.0	999.0	-9.0														
08	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	1.00	999.00		
999.	-9.0	999.0	-9.0														
08	01	01	1	06	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	1.00	999.00		
999.	-9.0	999.0	-9.0														
08	01	01	1	07	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	1.00	999.00		
999.	-9.0	999.0	-9.0														
08	01	01	1	08	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	0.54	999.00		
999.	-9.0	999.0	-9.0														
08	01	01	1	09	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	0.32	999.00		
999.	-9.0	999.0	-9.0														
08	01	01	1	10	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	0.25	999.00		
999.	-9.0	999.0	-9.0														
08	01	01	1	11	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	0.22	999.00		
999.	-9.0	999.0	-9.0														
08	01	01	1	12	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	0.21	999.00		
999.	-9.0	999.0	-9.0														
08	01	01	1	13	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	0.21	999.00		
999.	-9.0	999.0	-9.0														
08	01	01	1	14	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	0.23	999.00		
999.	-9.0	999.0	-9.0														
08	01	01	1	15	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	0.26	999.00		
999.	-9.0	999.0	-9.0														
08	01	01	1	16	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	0.35	999.00		
999.	-9.0	999.0	-9.0														
08	01	01	1	17	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	0.63	999.00		
999.	-9.0	999.0	-9.0														
08	01	01	1	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	1.00	999.00		
999.	-9.0	999.0	-9.0														
08	01	01	1	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	1.00	999.00		
999.	-9.0	999.0	-9.0														
08	01	01	1	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	1.00	999.00		
999.	-9.0	999.0	-9.0														
08	01	01	1	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	1.00	999.00		
999.	-9.0	999.0	-9.0														

08	01	01	1	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	1.00	999.00
999.	-9.0	999.0	-9.0												
08	01	01	1	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	1.00	999.00
999.	-9.0	999.0	-9.0												
08	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	1.00	1.00	999.00
999.	-9.0	999.0	-9.0												

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB	TMP	sigmaA	sigmaW	sigmaV
08	01	01	01	5.5	0	-999.	-99.00	-999.0	99.0	-99.00	-99.00	-99.00
08	01	01	01	9.1	1	-999.	-99.00	-999.0	99.0	-99.00	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB1 ***
 INCLUDING SOURCE(S): FWYEB1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
4.08748	468330.00	3769866.69	4.35927	468355.00	3769866.69
3.60969	468380.00	3769866.69	3.83786	468405.00	3769866.69
4.61110	468430.00	3769866.69	3.40557	468330.00	3769891.69
4.04944	468355.00	3769891.69	4.31588	468380.00	3769891.69
3.58888	468405.00	3769891.69	3.80548	468430.00	3769891.69
4.54812	468330.00	3769916.69	4.87037	468355.00	3769916.69
4.00814	468380.00	3769916.69	4.26473	468405.00	3769916.69
5.13168	468430.00	3769916.69	3.77487	468330.00	3769941.69
4.48298	468355.00	3769941.69	4.78639	468380.00	3769941.69
3.95932	468405.00	3769941.69	4.20855	468430.00	3769941.69
5.01325	468330.00	3769966.69	5.37878	468355.00	3769966.69
4.40151	468380.00	3769966.69	4.69202	468405.00	3769966.69
5.60350	468430.00	3769966.69	4.13775	468330.00	3769991.69
4.88580	468355.00	3769991.69	5.22168	468380.00	3769991.69
5.41437	468330.00	3770016.69	5.81228	468355.00	3770016.69
5.98322	468380.00	3770016.69	5.05871	468330.00	3770041.69
5.21437	468355.00	3770041.69	5.57961	468380.00	3770041.69
5.70606	468330.00	3770066.69	6.10760	468355.00	3770066.69
6.18984	468380.00	3770066.69	5.34356	468330.00	3770091.69
5.43828	468355.00	3770091.69	5.79345	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB2 ***
 INCLUDING SOURCE(S): FWYEB2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
4.37282	468330.00	3769866.69	4.67582	468355.00	3769866.69
3.84342	468380.00	3769866.69	4.09573	468405.00	3769866.69
4.95513	468430.00	3769866.69	3.61841	468330.00	3769891.69
4.32871	468355.00	3769891.69	4.62524	468380.00	3769891.69
3.81893	468405.00	3769891.69	4.05829	468430.00	3769891.69
4.88098	468330.00	3769916.69	5.24153	468355.00	3769916.69
4.28010	468380.00	3769916.69	4.56506	468405.00	3769916.69
5.52838	468430.00	3769916.69	4.02196	468330.00	3769941.69
4.80346	468355.00	3769941.69	5.14187	468380.00	3769941.69
4.22251	468405.00	3769941.69	4.49850	468430.00	3769941.69
5.38823	468330.00	3769966.69	5.79711	468355.00	3769966.69
4.70741	468380.00	3769966.69	5.03013	468405.00	3769966.69
6.03817	468430.00	3769966.69	4.41538	468330.00	3769991.69
5.23805	468355.00	3769991.69	5.61189	468380.00	3769991.69
5.81550	468330.00	3770016.69	6.25833	468355.00	3770016.69
6.43343	468380.00	3770016.69	5.42084	468330.00	3770041.69
5.58232	468355.00	3770041.69	5.98611	468380.00	3770041.69
6.11148	468330.00	3770066.69	6.55421	468355.00	3770066.69
6.62597	468380.00	3770066.69	5.71249	468330.00	3770091.69
5.80289	468355.00	3770091.69	6.19169	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB3 ***
 INCLUDING SOURCE(S): FWYEB3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
4.68993	468330.00	3769866.69	5.02911	468355.00	3769866.69
4.10115	468380.00	3769866.69	4.38114	468405.00	3769866.69
5.33993	468430.00	3769866.69	3.85228	468330.00	3769891.69
4.63845	468355.00	3769891.69	4.96974	468380.00	3769891.69
4.07223	468405.00	3769891.69	4.33761	468430.00	3769891.69
5.25210	468330.00	3769916.69	5.65720	468355.00	3769916.69
4.58099	468380.00	3769916.69	4.89857	468405.00	3769916.69
5.97274	468430.00	3769916.69	4.29436	468330.00	3769941.69
5.15948	468355.00	3769941.69	5.53834	468380.00	3769941.69
4.51282	468405.00	3769941.69	4.81943	468430.00	3769941.69
5.80608	468330.00	3769966.69	6.26516	468355.00	3769966.69
5.04583	468380.00	3769966.69	5.40548	468405.00	3769966.69
6.52327	468430.00	3769966.69	4.72153	468330.00	3769991.69
5.62842	468355.00	3769991.69	6.04579	468380.00	3769991.69
6.26011	468330.00	3770016.69	6.75430	468355.00	3770016.69
6.93154	468380.00	3770016.69	5.82102	468330.00	3770041.69
5.98742	468355.00	3770041.69	6.43474	468380.00	3770041.69
6.55648	468330.00	3770066.69	7.04522	468355.00	3770066.69
7.10190	468380.00	3770066.69	6.11675	468330.00	3770091.69
6.20013	468355.00	3770091.69	6.62595	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB4 ***
 INCLUDING SOURCE(S): FWYEB4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
5.03990	468330.00	3769866.69	5.42085	468355.00	3769866.69
4.38301	468380.00	3769866.69	4.69469	468405.00	3769866.69
5.76732	468430.00	3769866.69	4.10707	468330.00	3769891.69
4.97932	468355.00	3769891.69	5.35055	468380.00	3769891.69
4.34879	468405.00	3769891.69	4.64368	468430.00	3769891.69
5.66266	468330.00	3769916.69	6.11934	468355.00	3769916.69
4.91115	468380.00	3769916.69	5.26598	468405.00	3769916.69
6.46677	468430.00	3769916.69	4.59220	468330.00	3769941.69
5.55181	468355.00	3769941.69	5.97702	468380.00	3769941.69
4.83039	468405.00	3769941.69	5.17175	468430.00	3769941.69
6.26784	468330.00	3769966.69	6.78470	468355.00	3769966.69
5.41709	468380.00	3769966.69	5.81872	468405.00	3769966.69
7.06006	468430.00	3769966.69	5.05625	468330.00	3769991.69
6.05724	468355.00	3769991.69	6.52402	468380.00	3769991.69
6.74839	468330.00	3770016.69	7.30087	468355.00	3770016.69
7.47737	468380.00	3770016.69	6.25909	468330.00	3770041.69
6.42898	468355.00	3770041.69	6.92507	468380.00	3770041.69
7.03978	468330.00	3770066.69	7.57931	468355.00	3770066.69
7.61503	468380.00	3770066.69	6.55510	468330.00	3770091.69
6.62807	468355.00	3770091.69	7.09396	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB5 ***
 INCLUDING SOURCE(S): FWYEB5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
5.44135	468330.00	3769866.69	5.87239	468355.00	3769866.69
4.70387	468380.00	3769866.69	5.05290	468405.00	3769866.69
6.26164	468430.00	3769866.69	4.39607	468330.00	3769891.69
5.36983	468355.00	3769891.69	5.78882	468380.00	3769891.69
4.66306	468405.00	3769891.69	4.99293	468430.00	3769891.69
6.13602	468330.00	3769916.69	6.65468	468355.00	3769916.69
5.28830	468380.00	3769916.69	5.68755	468405.00	3769916.69
7.03882	468430.00	3769916.69	4.93101	468330.00	3769941.69
6.00196	468355.00	3769941.69	6.48269	468380.00	3769941.69
5.19173	468405.00	3769941.69	5.57424	468430.00	3769941.69
6.79928	468330.00	3769966.69	7.38512	468355.00	3769966.69
5.84079	468380.00	3769966.69	6.29228	468405.00	3769966.69
7.67824	468430.00	3769966.69	5.43680	468330.00	3769991.69
6.54743	468355.00	3769991.69	7.07281	468380.00	3769991.69
7.30607	468330.00	3770016.69	7.92677	468355.00	3770016.69
8.09802	468380.00	3770016.69	6.75803	468330.00	3770041.69
6.92925	468355.00	3770041.69	7.48163	468380.00	3770041.69
7.58443	468330.00	3770066.69	8.18172	468355.00	3770066.69
8.18835	468380.00	3770066.69	7.04846	468330.00	3770091.69
7.10610	468355.00	3770091.69	7.61706	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB6 ***
 INCLUDING SOURCE(S): FWYEB6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
5.89588	468330.00	3769866.69	6.38643	468355.00	3769866.69
5.06367	468380.00	3769866.69	5.45643	468405.00	3769866.69
6.82592	468430.00	3769866.69	4.71876	468330.00	3769891.69
5.81084	468355.00	3769891.69	6.28630	468380.00	3769891.69
5.01473	468405.00	3769891.69	5.38547	468430.00	3769891.69
6.67397	468330.00	3769916.69	7.26646	468355.00	3769916.69
5.71273	468380.00	3769916.69	6.16422	468405.00	3769916.69
7.69211	468430.00	3769916.69	5.31062	468330.00	3769941.69
6.51085	468355.00	3769941.69	7.05713	468380.00	3769941.69
5.59663	468405.00	3769941.69	6.02718	468430.00	3769941.69
7.40177	468330.00	3769966.69	8.06905	468355.00	3769966.69
6.31699	468380.00	3769966.69	6.82674	468405.00	3769966.69
8.37927	468430.00	3769966.69	5.86280	468330.00	3769991.69
7.09893	468355.00	3769991.69	7.69264	468380.00	3769991.69
7.93256	468330.00	3770016.69	8.63208	468355.00	3770016.69
8.79179	468380.00	3770016.69	7.31681	468330.00	3770041.69
7.48617	468355.00	3770041.69	8.10253	468380.00	3770041.69
8.18693	468330.00	3770066.69	8.84855	468355.00	3770066.69
8.81570	468380.00	3770066.69	7.59366	468330.00	3770091.69
7.62978	468355.00	3770091.69	8.18998	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB7 ***
 INCLUDING SOURCE(S): FWYEB7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
6.40181	468330.00	3769866.69	6.96210	468355.00	3769866.69
5.45940	468380.00	3769866.69	5.90287	468405.00	3769866.69
7.45881	468430.00	3769866.69	5.07191	468330.00	3769891.69
6.29959	468355.00	3769891.69	6.84083	468380.00	3769891.69
5.40055	468405.00	3769891.69	5.81810	468430.00	3769891.69
7.27371	468330.00	3769916.69	7.95291	468355.00	3769916.69
6.18113	468380.00	3769916.69	6.69283	468405.00	3769916.69
8.42433	468430.00	3769916.69	5.72766	468330.00	3769941.69
7.07497	468355.00	3769941.69	7.69711	468380.00	3769941.69
6.04147	468405.00	3769941.69	6.52697	468430.00	3769941.69
8.07113	468330.00	3769966.69	8.83297	468355.00	3769966.69
6.84150	468380.00	3769966.69	7.41790	468405.00	3769966.69
9.15778	468430.00	3769966.69	6.33017	468330.00	3769991.69
7.70647	468355.00	3769991.69	8.37794	468380.00	3769991.69
8.62098	468330.00	3770016.69	9.40986	468355.00	3770016.69
9.54974	468380.00	3770016.69	7.92877	468330.00	3770041.69
8.09193	468355.00	3770041.69	8.77948	468380.00	3770041.69
8.83724	468330.00	3770066.69	9.56837	468355.00	3770066.69
9.48335	468380.00	3770066.69	8.18179	468330.00	3770091.69
8.18901	468355.00	3770091.69	8.80086	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB8 ***
 INCLUDING SOURCE(S): FWYEB8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
6.97601	468330.00	3769866.69	7.61970	468355.00	3769866.69
5.90322	468380.00	3769866.69	6.40645	468405.00	3769866.69
8.18339	468430.00	3769866.69	5.46597	468330.00	3769891.69
6.85212	468355.00	3769891.69	7.47150	468380.00	3769891.69
5.83210	468405.00	3769891.69	6.30439	468430.00	3769891.69
7.95610	468330.00	3769916.69	8.73911	468355.00	3769916.69
6.70822	468380.00	3769916.69	7.29084	468405.00	3769916.69
9.26153	468430.00	3769916.69	6.19467	468330.00	3769941.69
7.71261	468355.00	3769941.69	8.42439	468380.00	3769941.69
6.53947	468405.00	3769941.69	7.08908	468430.00	3769941.69
8.82918	468330.00	3769966.69	9.70271	468355.00	3769966.69
7.43009	468380.00	3769966.69	8.08424	468405.00	3769966.69
10.03812	468430.00	3769966.69	6.85243	468330.00	3769991.69
8.38804	468355.00	3769991.69	9.14967	468380.00	3769991.69
9.39045	468330.00	3770016.69	10.28172	468355.00	3770016.69
10.38992	468380.00	3770016.69	8.61077	468330.00	3770041.69
8.76153	468355.00	3770041.69	9.52901	468380.00	3770041.69
9.54891	468330.00	3770066.69	10.35537	468355.00	3770066.69
10.20151	468380.00	3770066.69	8.82556	468330.00	3770091.69
8.79402	468355.00	3770091.69	9.46017	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB9 ***
 INCLUDING SOURCE(S): FWYEB9 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
7.65057	468330.00	3769866.69	8.39771	468355.00	3769866.69
6.41882	468380.00	3769866.69	6.99452	468405.00	3769866.69
9.04386	468430.00	3769866.69	5.92144	468330.00	3769891.69
7.49940	468355.00	3769891.69	8.21512	468380.00	3769891.69
6.33197	468405.00	3769891.69	6.87087	468430.00	3769891.69
8.76169	468330.00	3769916.69	9.67349	468355.00	3769916.69
7.32268	468380.00	3769916.69	7.99220	468405.00	3769916.69
10.25415	468430.00	3769916.69	6.73606	468330.00	3769941.69
8.45947	468355.00	3769941.69	9.28144	468380.00	3769941.69
7.11640	468405.00	3769941.69	7.74374	468430.00	3769941.69
9.71884	468330.00	3769966.69	10.72870	468355.00	3769966.69
8.11372	468380.00	3769966.69	8.86211	468405.00	3769966.69
11.06871	468430.00	3769966.69	7.45614	468330.00	3769991.69
9.17948	468355.00	3769991.69	10.04965	468380.00	3769991.69
10.27974	468330.00	3770016.69	11.29133	468355.00	3770016.69
11.35004	468380.00	3770016.69	9.39705	468330.00	3770041.69
9.52620	468355.00	3770041.69	10.38552	468380.00	3770041.69
10.35155	468330.00	3770066.69	11.24103	468355.00	3770066.69
10.99535	468380.00	3770066.69	9.55226	468330.00	3770091.69
9.46794	468355.00	3770091.69	10.19259	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB10 ***
 INCLUDING SOURCE(S): FWYEB10 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
8.49295	468330.00	3769866.69	9.37684	468355.00	3769866.69
7.05568	468380.00	3769866.69	7.72449	468405.00	3769866.69
10.12807	468430.00	3769866.69	6.48106	468330.00	3769891.69
8.30330	468355.00	3769891.69	9.14501	468380.00	3769891.69
6.94553	468405.00	3769891.69	7.57051	468430.00	3769891.69
9.76659	468330.00	3769916.69	10.84652	468355.00	3769916.69
8.07900	468380.00	3769916.69	8.86103	468405.00	3769916.69
11.48992	468430.00	3769916.69	7.39856	468330.00	3769941.69
9.37877	468355.00	3769941.69	10.34280	468380.00	3769941.69
7.81884	468405.00	3769941.69	8.54500	468430.00	3769941.69
10.80950	468330.00	3769966.69	11.99123	468355.00	3769966.69
8.94391	468380.00	3769966.69	9.81113	468405.00	3769966.69
12.31843	468430.00	3769966.69	8.18604	468330.00	3769991.69
10.13431	468355.00	3769991.69	11.13900	468380.00	3769991.69
11.33843	468330.00	3770016.69	12.49182	468355.00	3770016.69
12.46628	468380.00	3770016.69	10.33309	468330.00	3770041.69
10.42129	468355.00	3770041.69	11.38532	468380.00	3770041.69
11.26839	468330.00	3770066.69	12.24559	468355.00	3770066.69
11.87037	468380.00	3770066.69	10.38625	468330.00	3770091.69
10.22456	468355.00	3770091.69	11.00912	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB11 ***
 INCLUDING SOURCE(S): FWYEB11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
9.48052	468330.00	3769866.69	10.53558	468355.00	3769866.69
7.79275	468380.00	3769866.69	8.57419	468405.00	3769866.69
11.42387	468430.00	3769866.69	7.12465	468330.00	3769891.69
9.24646	468355.00	3769891.69	10.24556	468380.00	3769891.69
7.65460	468405.00	3769891.69	8.38553	468430.00	3769891.69
10.96285	468330.00	3769916.69	12.25522	468355.00	3769916.69
8.96309	468380.00	3769916.69	9.88550	468405.00	3769916.69
12.97338	468430.00	3769916.69	8.16684	468330.00	3769941.69
10.46387	468355.00	3769941.69	11.60681	468380.00	3769941.69
8.63490	468405.00	3769941.69	9.48299	468430.00	3769941.69
12.10534	468330.00	3769966.69	13.50119	468355.00	3769966.69
9.91520	468380.00	3769966.69	10.92978	468405.00	3769966.69
13.80282	468430.00	3769966.69	9.03404	468330.00	3769991.69
11.25570	468355.00	3769991.69	12.42677	468380.00	3769991.69
12.57820	468330.00	3770016.69	13.89992	468355.00	3770016.69
13.75586	468380.00	3770016.69	11.42603	468330.00	3770041.69
11.45627	468355.00	3770041.69	12.54153	468380.00	3770041.69
12.31400	468330.00	3770066.69	13.38716	468355.00	3770066.69
12.84566	468380.00	3770066.69	11.33853	468330.00	3770091.69
11.07641	468355.00	3770091.69	11.92584	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB12 ***
 INCLUDING SOURCE(S): FWYEB12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
10.59610	468330.00	3769866.69	11.85884	468355.00	3769866.69
8.60762	468380.00	3769866.69	9.52355	468405.00	3769866.69
12.90330	468430.00	3769866.69	7.83013	468330.00	3769891.69
10.30122	468355.00	3769891.69	11.48850	468380.00	3769891.69
8.43425	468405.00	3769891.69	9.28825	468430.00	3769891.69
12.30962	468330.00	3769916.69	13.85838	468355.00	3769916.69
9.94256	468380.00	3769916.69	11.02920	468405.00	3769916.69
14.65018	468430.00	3769916.69	9.01209	468330.00	3769941.69
11.67046	468355.00	3769941.69	13.02245	468380.00	3769941.69
9.53071	468405.00	3769941.69	10.51907	468430.00	3769941.69
13.54257	468330.00	3769966.69	15.18745	468355.00	3769966.69
10.98125	468380.00	3769966.69	12.16395	468405.00	3769966.69
15.43219	468430.00	3769966.69	9.96011	468330.00	3769991.69
12.47854	468355.00	3769991.69	13.83498	468380.00	3769991.69
13.91136	468330.00	3770016.69	15.41508	468355.00	3770016.69
15.10874	468380.00	3770016.69	12.59964	468330.00	3770041.69
12.54848	468355.00	3770041.69	13.75957	468380.00	3770041.69
13.38714	468330.00	3770066.69	14.54662	468355.00	3770066.69
13.79824	468380.00	3770066.69	12.32305	468330.00	3770091.69
11.93510	468355.00	3770091.69	12.83708	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB13 ***
 INCLUDING SOURCE(S): FWYEB13 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
11.93542	468330.00	3769866.69	13.46580	468355.00	3769866.69
9.56845	468380.00	3769866.69	10.65239	468405.00	3769866.69
14.70692	468430.00	3769866.69	8.65540	468330.00	3769891.69
11.55971	468355.00	3769891.69	12.98663	468380.00	3769891.69
9.34853	468405.00	3769891.69	10.35588	468430.00	3769891.69
13.93147	468330.00	3769916.69	15.80862	468355.00	3769916.69
11.10031	468380.00	3769916.69	12.39315	468405.00	3769916.69
16.67294	468430.00	3769916.69	10.00316	468330.00	3769941.69
13.10221	468355.00	3769941.69	14.71627	468380.00	3769941.69
10.57792	468405.00	3769941.69	11.73901	468430.00	3769941.69
15.24341	468330.00	3769966.69	17.19373	468355.00	3769966.69
12.22752	468380.00	3769966.69	13.61552	468405.00	3769966.69
17.33433	468430.00	3769966.69	11.03642	468330.00	3769991.69
13.89886	468355.00	3769991.69	15.47610	468380.00	3769991.69
15.43376	468330.00	3770016.69	17.13984	468355.00	3770016.69
16.60250	468380.00	3770016.69	13.94102	468330.00	3770041.69
13.77156	468355.00	3770041.69	15.11615	468380.00	3770041.69
14.54779	468330.00	3770066.69	15.78175	468355.00	3770066.69
14.77018	468380.00	3770066.69	13.39867	468330.00	3770091.69
12.84654	468355.00	3770091.69	13.78909	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB14 ***
 INCLUDING SOURCE(S): FWYEB14 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
13.52745	468330.00	3769866.69	15.40195	468355.00	3769866.69
10.68320	468380.00	3769866.69	11.97737	468405.00	3769866.69
16.87973	468430.00	3769866.69	9.60354	468330.00	3769891.69
13.03848	468355.00	3769891.69	14.76775	468380.00	3769891.69
10.40164	468405.00	3769891.69	11.59671	468430.00	3769891.69
15.85063	468330.00	3769916.69	18.14457	468355.00	3769916.69
12.44421	468380.00	3769916.69	13.99094	468405.00	3769916.69
19.06747	468430.00	3769916.69	11.14398	468330.00	3769941.69
14.76783	468355.00	3769941.69	16.70259	468380.00	3769941.69
11.77838	468405.00	3769941.69	13.14749	468430.00	3769941.69
17.20864	468330.00	3769966.69	19.52473	468355.00	3769966.69
13.65277	468380.00	3769966.69	15.28433	468405.00	3769966.69
19.48879	468430.00	3769966.69	12.26075	468330.00	3769991.69
15.50492	468355.00	3769991.69	17.33398	468380.00	3769991.69
17.11487	468330.00	3770016.69	19.03454	468355.00	3770016.69
18.18218	468380.00	3770016.69	15.42594	468330.00	3770041.69
15.09225	468355.00	3770041.69	16.56940	468380.00	3770041.69
15.74532	468330.00	3770066.69	17.02732	468355.00	3770066.69
15.69431	468380.00	3770066.69	14.52619	468330.00	3770091.69
13.76805	468355.00	3770091.69	14.72712	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB15 ***
 INCLUDING SOURCE(S): FWYEB15 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
15.43240	468330.00	3769866.69	17.75482	468355.00	3769866.69
11.97896	468380.00	3769866.69	13.53920	468405.00	3769866.69
19.51163	468430.00	3769866.69	10.69336	468330.00	3769891.69
14.78045	468355.00	3769891.69	16.89355	468380.00	3769891.69
11.61507	468405.00	3769891.69	13.04011	468430.00	3769891.69
18.12262	468330.00	3769916.69	20.94750	468355.00	3769916.69
14.00397	468380.00	3769916.69	15.86298	468405.00	3769916.69
21.89506	468430.00	3769916.69	12.45661	468330.00	3769941.69
16.70106	468355.00	3769941.69	19.02551	468380.00	3769941.69
13.15184	468405.00	3769941.69	14.77036	468430.00	3769941.69
19.46284	468330.00	3769966.69	22.21030	468355.00	3769966.69
15.27498	468380.00	3769966.69	17.19184	468405.00	3769966.69
21.88993	468430.00	3769966.69	13.64778	468330.00	3769991.69
17.30238	468355.00	3769991.69	19.40962	468380.00	3769991.69
18.93557	468330.00	3770016.69	21.06664	468355.00	3770016.69
19.79620	468380.00	3770016.69	17.04364	468330.00	3770041.69
16.48744	468355.00	3770041.69	18.08495	468380.00	3770041.69
16.93548	468330.00	3770066.69	18.22229	468355.00	3770066.69
16.51132	468380.00	3770066.69	15.67445	468330.00	3770091.69
14.66440	468355.00	3770091.69	15.60394	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB16 ***
 INCLUDING SOURCE(S): FWYEB16 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
17.81926	468330.00	3769866.69	20.75206	468355.00	3769866.69
13.55631	468380.00	3769866.69	15.46667	468405.00	3769866.69
22.82714	468430.00	3769866.69	12.00518	468330.00	3769891.69
16.91551	468355.00	3769891.69	19.53277	468380.00	3769891.69
13.07064	468405.00	3769891.69	14.78818	468430.00	3769891.69
20.89402	468330.00	3769916.69	24.40475	468355.00	3769916.69
15.87338	468380.00	3769916.69	18.12577	468405.00	3769916.69
25.27602	468430.00	3769916.69	14.01751	468330.00	3769941.69
18.99090	468355.00	3769941.69	21.78935	468380.00	3769941.69
14.76226	468405.00	3769941.69	16.68306	468430.00	3769941.69
22.05508	468330.00	3769966.69	25.28788	468355.00	3769966.69
17.14344	468380.00	3769966.69	19.38933	468405.00	3769966.69
24.49550	468430.00	3769966.69	15.24301	468330.00	3769991.69
19.30114	468355.00	3769991.69	21.69479	468380.00	3769991.69
20.83749	468330.00	3770016.69	23.13106	468355.00	3770016.69
21.30244	468380.00	3770016.69	18.76560	468330.00	3770041.69
17.89738	468355.00	3770041.69	19.56838	468380.00	3770041.69
18.00547	468330.00	3770066.69	19.21445	468355.00	3770066.69
17.07891	468380.00	3770066.69	16.76277	468330.00	3770091.69
15.44545	468355.00	3770091.69	16.30445	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB17 ***
 INCLUDING SOURCE(S): FWYEB17 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
20.91466	468330.00	3769866.69	24.71569	468355.00	3769866.69
15.54413	468380.00	3769866.69	17.92730	468405.00	3769866.69
27.19853	468430.00	3769866.69	13.63856	468330.00	3769891.69
19.64047	468355.00	3769891.69	22.95278	468380.00	3769891.69
14.88217	468405.00	3769891.69	16.99102	468430.00	3769891.69
24.44347	468330.00	3769916.69	28.88466	468355.00	3769916.69
18.21116	468380.00	3769916.69	20.98825	468405.00	3769916.69
29.52275	468430.00	3769916.69	15.94891	468330.00	3769941.69
21.83570	468355.00	3769941.69	25.24689	468380.00	3769941.69
16.73289	468405.00	3769941.69	19.04147	468430.00	3769941.69
25.19329	468330.00	3769966.69	28.99109	468355.00	3769966.69
19.40115	468380.00	3769966.69	22.05046	468405.00	3769966.69
27.46375	468430.00	3769966.69	17.16366	468330.00	3769991.69
21.64343	468355.00	3769991.69	24.34770	468380.00	3769991.69
22.92976	468330.00	3770016.69	25.32048	468355.00	3770016.69
22.76002	468380.00	3770016.69	20.70364	468330.00	3770041.69
19.40466	468355.00	3770041.69	21.09339	468380.00	3770041.69
19.01408	468330.00	3770066.69	20.05958	468355.00	3770066.69
17.46270	468380.00	3770066.69	17.85281	468330.00	3770091.69
16.16367	468355.00	3770091.69	16.88674	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB18 ***
 INCLUDING SOURCE(S): FWYEB18 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
24.91278	468330.00	3769866.69	29.95777	468355.00	3769866.69
18.01650	468380.00	3769866.69	21.04180	468405.00	3769866.69
32.91273	468430.00	3769866.69	15.63998	468330.00	3769891.69
23.07240	468355.00	3769891.69	27.33585	468380.00	3769891.69
17.09822	468405.00	3769891.69	19.72244	468430.00	3769891.69
28.89721	468330.00	3769916.69	34.57421	468355.00	3769916.69
21.07731	468380.00	3769916.69	24.53797	468405.00	3769916.69
34.67697	468430.00	3769916.69	18.29151	468330.00	3769941.69
25.27422	468355.00	3769941.69	29.44133	468380.00	3769941.69
19.08640	468405.00	3769941.69	21.87631	468430.00	3769941.69
28.82711	468330.00	3769966.69	33.21582	468355.00	3769966.69
22.04022	468380.00	3769966.69	25.15394	468405.00	3769966.69
30.59027	468430.00	3769966.69	19.40729	468330.00	3769991.69
24.25216	468355.00	3769991.69	27.24097	468380.00	3769991.69
25.04577	468330.00	3770016.69	27.40081	468355.00	3770016.69
23.95677	468380.00	3770016.69	22.74137	468330.00	3770041.69
20.87897	468355.00	3770041.69	22.49065	468380.00	3770041.69
19.81407	468330.00	3770066.69	20.59461	468355.00	3770066.69
17.55643	468380.00	3770066.69	18.82145	468330.00	3770091.69
16.71603	468355.00	3770091.69	17.23890	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB19 ***
 INCLUDING SOURCE(S): FWYEB19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
30.20236	468330.00	3769866.69	37.08983	468355.00	3769866.69
21.14707	468380.00	3769866.69	25.06584	468405.00	3769866.69
40.53783	468430.00	3769866.69	18.13113	468330.00	3769891.69
27.46895	468355.00	3769891.69	33.06008	468380.00	3769891.69
19.84699	468405.00	3769891.69	23.16181	468430.00	3769891.69
34.54002	468330.00	3769916.69	41.85247	468355.00	3769916.69
24.62924	468380.00	3769916.69	28.98688	468405.00	3769916.69
40.86267	468430.00	3769916.69	21.16269	468330.00	3769941.69
29.43680	468355.00	3769941.69	34.51393	468380.00	3769941.69
21.91277	468405.00	3769941.69	25.29796	468430.00	3769941.69
32.95320	468330.00	3769966.69	37.86898	468355.00	3769966.69
25.11147	468380.00	3769966.69	28.73679	468405.00	3769966.69
33.66837	468430.00	3769966.69	22.02600	468330.00	3769991.69
27.08609	468355.00	3769991.69	30.27022	468380.00	3769991.69
27.03969	468330.00	3770016.69	29.15429	468355.00	3770016.69
24.72825	468380.00	3770016.69	24.79088	468330.00	3770041.69
22.21931	468355.00	3770041.69	23.62321	468380.00	3770041.69
20.30637	468330.00	3770066.69	20.72822	468355.00	3770066.69
17.33129	468380.00	3770066.69	19.58025	468330.00	3770091.69
17.04030	468355.00	3770091.69	17.30676	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB20 ***
 INCLUDING SOURCE(S): FWYEB20 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
---	---	---	---	---	---
37.39045	468330.00	3769866.69	47.10998	468355.00	3769866.69
25.18742	468380.00	3769866.69	30.38338	468405.00	3769866.69
50.91051	468430.00	3769866.69	21.28326	468330.00	3769891.69
33.19740	468355.00	3769891.69	40.67474	468380.00	3769891.69
23.30376	468405.00	3769891.69	27.55914	468430.00	3769891.69
41.72100	468330.00	3769916.69	51.14646	468355.00	3769916.69
29.06898	468380.00	3769916.69	34.60393	468405.00	3769916.69
48.06598	468430.00	3769916.69	24.71327	468330.00	3769941.69
34.44673	468355.00	3769941.69	40.55982	468380.00	3769941.69
25.31412	468405.00	3769941.69	29.42475	468430.00	3769941.69
37.45820	468330.00	3769966.69	42.65824	468355.00	3769966.69
28.64030	468380.00	3769966.69	32.78004	468405.00	3769966.69
36.34094	468430.00	3769966.69	25.06210	468330.00	3769991.69
30.03017	468355.00	3769991.69	33.21890	468380.00	3769991.69
28.69228	468330.00	3770016.69	30.30091	468355.00	3770016.69
24.91893	468380.00	3770016.69	26.70134	468330.00	3770041.69
23.28784	468355.00	3770041.69	24.32891	468380.00	3770041.69
20.40234	468330.00	3770066.69	20.41218	468355.00	3770066.69
16.80568	468380.00	3770066.69	20.03089	468330.00	3770091.69
17.08331	468355.00	3770091.69	17.06321	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB21 ***
 INCLUDING SOURCE(S): FWYEB21 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
47.34729	468330.00	3769866.69	61.54363	468355.00	3769866.69
30.44965	468380.00	3769866.69	37.50753	468405.00	3769866.69
65.03104	468430.00	3769866.69	25.29504	468330.00	3769891.69
40.68850	468355.00	3769891.69	50.83916	468380.00	3769891.69
27.65807	468405.00	3769891.69	33.19501	468430.00	3769891.69
50.67265	468330.00	3769916.69	62.59709	468355.00	3769916.69
34.57455	468380.00	3769916.69	41.60919	468405.00	3769916.69
55.77184	468430.00	3769916.69	29.07912	468330.00	3769941.69
40.27877	468355.00	3769941.69	47.39999	468380.00	3769941.69
29.34211	468405.00	3769941.69	34.29098	468430.00	3769941.69
41.92858	468330.00	3769966.69	46.86199	468355.00	3769966.69
32.52886	468380.00	3769966.69	37.07088	468405.00	3769966.69
38.02301	468430.00	3769966.69	28.47894	468330.00	3769991.69
32.79295	468355.00	3769991.69	35.64872	468380.00	3769991.69
29.67369	468330.00	3770016.69	30.50977	468355.00	3770016.69
24.41167	468380.00	3770016.69	28.20063	468330.00	3770041.69
23.88737	468355.00	3770041.69	24.42116	468380.00	3770041.69
20.03185	468330.00	3770066.69	19.65430	468355.00	3770066.69
16.03874	468380.00	3770066.69	20.06139	468330.00	3770091.69
16.80144	468355.00	3770091.69	16.50962	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB22 ***
 INCLUDING SOURCE(S): FWYEB22 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
61.58970	468330.00	3769866.69	83.12650	468355.00	3769866.69
37.46290	468380.00	3769866.69	47.31490	468405.00	3769866.69
84.21749	468430.00	3769866.69	30.50282	468330.00	3769891.69
50.61106	468355.00	3769891.69	64.52877	468380.00	3769891.69
33.21776	468405.00	3769891.69	40.51840	468430.00	3769891.69
61.53557	468330.00	3769916.69	75.87237	468355.00	3769916.69
41.39346	468380.00	3769916.69	50.25951	468405.00	3769916.69
62.89007	468430.00	3769916.69	34.46495	468330.00	3769941.69
46.79606	468355.00	3769941.69	54.57216	468380.00	3769941.69
34.06038	468405.00	3769941.69	39.90563	468430.00	3769941.69
45.73510	468330.00	3769966.69	49.52046	468355.00	3769966.69
36.60854	468380.00	3769966.69	41.25788	468405.00	3769966.69
38.21455	468430.00	3769966.69	32.21284	468330.00	3769991.69
35.00837	468355.00	3769991.69	37.07615	468380.00	3769991.69
29.73592	468330.00	3770016.69	29.66136	468355.00	3770016.69
23.28718	468380.00	3770016.69	29.02686	468330.00	3770041.69
23.88564	468355.00	3770041.69	23.84138	468380.00	3770041.69
19.24220	468330.00	3770066.69	18.59564	468355.00	3770066.69
15.16014	468380.00	3770066.69	19.64164	468330.00	3770091.69
16.22430	468355.00	3770091.69	15.73085	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB23 ***
 INCLUDING SOURCE(S): FWYEB23 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
83.56671	468330.00	3769866.69	118.11464	468355.00	3769866.69
47.45474	468380.00	3769866.69	61.80518	468405.00	3769866.69
110.76252	468430.00	3769866.69	37.69915	468330.00	3769891.69
64.45226	468355.00	3769891.69	83.77496	468380.00	3769891.69
40.71109	468405.00	3769891.69	50.57242	468430.00	3769891.69
74.65789	468330.00	3769916.69	90.22765	468355.00	3769916.69
50.14740	468380.00	3769916.69	61.19151	468405.00	3769916.69
68.17143	468430.00	3769916.69	41.39081	468330.00	3769941.69
53.97462	468355.00	3769941.69	61.58185	468380.00	3769941.69
39.73178	468405.00	3769941.69	46.46272	468430.00	3769941.69
48.38927	468330.00	3769966.69	50.08353	468355.00	3769966.69
40.81516	468380.00	3769966.69	45.07786	468405.00	3769966.69
37.01168	468430.00	3769966.69	36.32231	468330.00	3769991.69
36.47832	468355.00	3769991.69	37.33801	468380.00	3769991.69
28.97746	468330.00	3770016.69	28.10846	468355.00	3770016.69
21.90804	468380.00	3770016.69	29.14350	468330.00	3770041.69
23.36731	468355.00	3770041.69	22.80342	468380.00	3770041.69
18.25743	468330.00	3770066.69	17.51565	468355.00	3770066.69
14.35497	468380.00	3770066.69	18.91110	468330.00	3770091.69
15.49653	468355.00	3770091.69	14.91086	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB24 ***
 INCLUDING SOURCE(S): FWYEB24 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
119.23120	468330.00	3769866.69	177.35368	468355.00	3769866.69
62.26734	468380.00	3769866.69	84.22301	468405.00	3769866.69
144.22924	468430.00	3769866.69	47.98522	468330.00	3769891.69
83.88514	468355.00	3769891.69	110.28526	468380.00	3769891.69
51.00605	468405.00	3769891.69	64.60191	468430.00	3769891.69
88.76269	468330.00	3769916.69	101.79041	468355.00	3769916.69
61.18668	468380.00	3769916.69	74.34913	468405.00	3769916.69
69.42009	468430.00	3769916.69	50.27151	468330.00	3769941.69
60.96485	468355.00	3769941.69	66.77880	468380.00	3769941.69
46.33856	468405.00	3769941.69	53.66144	468430.00	3769941.69
49.01819	468330.00	3769966.69	48.15901	468355.00	3769966.69
44.64411	468380.00	3769966.69	47.75125	468405.00	3769966.69
34.74927	468430.00	3769966.69	40.54725	468330.00	3769991.69
36.80162	468355.00	3769991.69	36.26107	468380.00	3769991.69
27.54802	468330.00	3770016.69	26.26566	468355.00	3770016.69
20.56525	468380.00	3770016.69	28.46540	468330.00	3770041.69
22.40757	468355.00	3770041.69	21.52235	468380.00	3770041.69
17.25016	468330.00	3770066.69	16.57348	468355.00	3770066.69
13.69399	468380.00	3770066.69	17.98956	468330.00	3770091.69
14.72468	468355.00	3770091.69	14.15894	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB25 ***
 INCLUDING SOURCE(S): FWYEB25 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					

175.98145	468330.00	3769866.69	268.44245	468355.00	3769866.69
84.10347	468380.00	3769866.69	118.75071	468405.00	3769866.69
170.99927	468430.00	3769866.69	62.55330	468330.00	3769891.69
108.85253	468355.00	3769891.69	140.77923	468380.00	3769891.69
64.63879	468405.00	3769891.69	83.16293	468430.00	3769891.69
98.43319	468330.00	3769916.69	102.46789	468355.00	3769916.69
73.51954	468380.00	3769916.69	87.17053	468405.00	3769916.69
64.88972	468430.00	3769916.69	60.79697	468330.00	3769941.69
65.33331	468355.00	3769941.69	67.17356	468380.00	3769941.69
53.04710	468405.00	3769941.69	59.98245	468430.00	3769941.69
46.75346	468330.00	3769966.69	44.12091	468355.00	3769966.69
46.87181	468380.00	3769966.69	47.93243	468405.00	3769966.69
31.96493	468430.00	3769966.69	43.99179	468330.00	3769991.69
35.50176	468355.00	3769991.69	33.86425	468380.00	3769991.69
25.65706	468330.00	3770016.69	24.43895	468355.00	3770016.69
19.36565	468380.00	3770016.69	26.93637	468330.00	3770041.69
21.08397	468355.00	3770041.69	20.15930	468380.00	3770041.69
16.29521	468330.00	3770066.69	15.76791	468355.00	3770066.69
13.13463	468380.00	3770066.69	16.96005	468330.00	3770091.69
13.95866	468355.00	3770091.69	13.48898	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB26 ***
 INCLUDING SOURCE(S): FWYEB26 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
264.33935	468330.00	3769866.69	365.44657	468355.00	3769866.69
118.75050	468380.00	3769866.69	174.96744	468405.00	3769866.69
170.17662	468430.00	3769866.69	84.78114	468330.00	3769891.69
138.46881	468355.00	3769891.69	165.88637	468380.00	3769891.69
83.32433	468405.00	3769891.69	107.80736	468430.00	3769891.69
99.03813	468330.00	3769916.69	92.61137	468355.00	3769916.69
86.10479	468380.00	3769916.69	96.50919	468405.00	3769916.69
58.26125	468430.00	3769916.69	73.04416	468330.00	3769941.69
65.75681	468355.00	3769941.69	63.00120	468380.00	3769941.69
59.27451	468405.00	3769941.69	64.25262	468430.00	3769941.69
43.04103	468330.00	3769966.69	40.28595	468355.00	3769966.69
47.08535	468380.00	3769966.69	45.82691	468405.00	3769966.69
29.72243	468430.00	3769966.69	46.19153	468330.00	3769991.69
33.26622	468355.00	3769991.69	31.30415	468380.00	3769991.69
23.97443	468330.00	3770016.69	23.04393	468355.00	3770016.69
18.45101	468380.00	3770016.69	25.18007	468330.00	3770041.69
19.81568	468355.00	3770041.69	19.04784	468380.00	3770041.69
15.54520	468330.00	3770066.69	15.14054	468355.00	3770066.69
12.68463	468380.00	3770066.69	16.06585	468330.00	3770091.69
13.32807	468355.00	3770091.69	12.96673	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB27 ***
 INCLUDING SOURCE(S): FWYEB27 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
349.51106	468330.00	3769866.69	333.45795	468355.00	3769866.69
173.40037	468380.00	3769866.69	258.20139	468405.00	3769866.69
143.53929	468430.00	3769866.69	119.25359	468330.00	3769891.69
160.93337	468355.00	3769891.69	163.22758	468380.00	3769891.69
107.34230	468405.00	3769891.69	135.71474	468430.00	3769891.69
89.37620	468330.00	3769916.69	80.94486	468355.00	3769916.69
94.58275	468380.00	3769916.69	96.43458	468405.00	3769916.69
52.69387	468430.00	3769916.69	84.98411	468330.00	3769941.69
61.52312	468355.00	3769941.69	56.64346	468380.00	3769941.69
63.15801	468405.00	3769941.69	64.35925	468430.00	3769941.69
39.36798	468330.00	3769966.69	37.30098	468355.00	3769966.69
44.91584	468380.00	3769966.69	42.17948	468405.00	3769966.69
27.95292	468430.00	3769966.69	46.23883	468330.00	3769991.69
30.76966	468355.00	3769991.69	29.14986	468380.00	3769991.69
22.63312	468330.00	3770016.69	21.89233	468355.00	3770016.69
17.65806	468380.00	3770016.69	23.55432	468330.00	3770041.69
18.74209	468355.00	3770041.69	18.16330	468380.00	3770041.69
14.93460	468330.00	3770066.69	14.57266	468355.00	3770066.69
12.25583	468380.00	3770066.69	15.33591	468330.00	3770091.69
12.81612	468355.00	3770091.69	12.52745	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB28 ***
 INCLUDING SOURCE(S): FWYEB28 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
307.18991	468330.00	3769866.69	239.64697	468355.00	3769866.69
247.26806	468380.00	3769866.69	324.80442	468405.00	3769866.69
117.96465	468430.00	3769866.69	170.52186	468330.00	3769891.69
154.52162	468355.00	3769891.69	136.03727	468380.00	3769891.69
132.38903	468405.00	3769891.69	153.61210	468430.00	3769891.69
77.60405	468330.00	3769916.69	70.63827	468355.00	3769916.69
92.97361	468380.00	3769916.69	85.99973	468405.00	3769916.69
47.54337	468430.00	3769916.69	91.82828	468330.00	3769941.69
54.95035	468355.00	3769941.69	50.98278	468380.00	3769941.69
62.53086	468405.00	3769941.69	59.63611	468430.00	3769941.69
36.30566	468330.00	3769966.69	34.37377	468355.00	3769966.69
41.09687	468380.00	3769966.69	38.40459	468405.00	3769966.69
26.13438	468430.00	3769966.69	43.76678	468330.00	3769991.69
28.54783	468355.00	3769991.69	27.32112	468380.00	3769991.69
21.44911	468330.00	3770016.69	20.67963	468355.00	3770016.69
16.81036	468380.00	3770016.69	22.17608	468330.00	3770041.69
17.83525	468355.00	3770041.69	17.35062	468380.00	3770041.69
14.35228	468330.00	3770066.69	13.95328	468355.00	3770066.69
11.79286	468380.00	3770066.69	14.70848	468330.00	3770091.69
12.36382	468355.00	3770091.69	12.09528	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB29 ***
 INCLUDING SOURCE(S): FWYEB29 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
224.72062	468330.00	3769866.69	151.44791	468355.00	3769866.69
301.91516	468380.00	3769866.69	282.50987	468405.00	3769866.69
90.95741	468430.00	3769866.69	238.89222	468330.00	3769891.69
129.47737	468355.00	3769891.69	112.82255	468380.00	3769891.69
148.11628	468405.00	3769891.69	146.29744	468430.00	3769891.69
68.10603	468330.00	3769916.69	59.40368	468355.00	3769916.69
82.97212	468380.00	3769916.69	75.05454	468405.00	3769916.69
41.87057	468430.00	3769916.69	89.82159	468330.00	3769941.69
49.63910	468355.00	3769941.69	46.16966	468380.00	3769941.69
57.90531	468405.00	3769941.69	53.41003	468430.00	3769941.69
33.54457	468330.00	3769966.69	31.14043	468355.00	3769966.69
37.51872	468380.00	3769966.69	35.50841	468405.00	3769966.69
24.12633	468430.00	3769966.69	40.09604	468330.00	3769991.69
26.80756	468355.00	3769991.69	25.59434	468380.00	3769991.69
20.29200	468330.00	3770016.69	19.34138	468355.00	3770016.69
15.86717	468380.00	3770016.69	21.04877	468330.00	3770041.69
17.05778	468355.00	3770041.69	16.53661	468380.00	3770041.69
13.75916	468330.00	3770066.69	13.26907	468355.00	3770066.69
11.28282	468380.00	3770066.69	14.14737	468330.00	3770091.69
11.94153	468355.00	3770091.69	11.64453	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB30 ***
 INCLUDING SOURCE(S): FWYEB30 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
144.39404	468330.00	3769866.69	93.60178	468355.00	3769866.69
264.63171	468380.00	3769866.69	211.00960	468405.00	3769866.69
66.98028	468430.00	3769866.69	288.57935	468330.00	3769891.69
109.02250	468355.00	3769891.69	88.25356	468380.00	3769891.69
141.38486	468405.00	3769891.69	124.36052	468430.00	3769891.69
57.95526	468330.00	3769916.69	48.29910	468355.00	3769916.69
73.16562	468380.00	3769916.69	66.53325	468405.00	3769916.69
35.96735	468430.00	3769916.69	80.69216	468330.00	3769941.69
45.27215	468355.00	3769941.69	40.99245	468380.00	3769941.69
52.21238	468405.00	3769941.69	48.60782	468430.00	3769941.69
30.57278	468330.00	3769966.69	27.69458	468355.00	3769966.69
34.88181	468380.00	3769966.69	32.98357	468405.00	3769966.69
21.96214	468430.00	3769966.69	36.81471	468330.00	3769991.69
25.21939	468355.00	3769991.69	23.73906	468380.00	3769991.69
19.04402	468330.00	3770016.69	17.85146	468355.00	3770016.69
14.79731	468380.00	3770016.69	19.98569	468330.00	3770041.69
16.30115	468355.00	3770041.69	15.63217	468380.00	3770041.69
13.08367	468330.00	3770066.69	12.49049	468355.00	3770066.69
10.69838	468380.00	3770066.69	13.56899	468330.00	3770091.69
11.48836	468355.00	3770091.69	11.13472	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB31 ***
 INCLUDING SOURCE(S): FWYEB31 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
91.13240	468330.00	3769866.69	61.96041	468355.00	3769866.69
198.64686	468380.00	3769866.69	138.82200	468405.00	3769866.69
49.14491	468430.00	3769866.69	246.52171	468330.00	3769891.69
85.16341	468355.00	3769891.69	65.24000	468380.00	3769891.69
119.13803	468405.00	3769891.69	104.31400	468430.00	3769891.69
47.13439	468330.00	3769916.69	38.38053	468355.00	3769916.69
64.55467	468380.00	3769916.69	56.44970	468405.00	3769916.69
30.18074	468430.00	3769916.69	70.81579	468330.00	3769941.69
40.08348	468355.00	3769941.69	35.19209	468380.00	3769941.69
47.34881	468405.00	3769941.69	44.16754	468430.00	3769941.69
27.16402	468330.00	3769966.69	24.12398	468355.00	3769966.69
32.30306	468380.00	3769966.69	29.98618	468405.00	3769966.69
19.63984	468430.00	3769966.69	34.12634	468330.00	3769991.69
23.33918	468355.00	3769991.69	21.58662	468380.00	3769991.69
17.57978	468330.00	3770016.69	16.25699	468355.00	3770016.69
13.67136	468380.00	3770016.69	18.73173	468330.00	3770041.69
15.40446	468355.00	3770041.69	14.59885	468380.00	3770041.69
12.33433	468330.00	3770066.69	11.66903	468355.00	3770066.69
10.08272	468380.00	3770066.69	12.90884	468330.00	3770091.69
10.99408	468355.00	3770091.69	10.57584	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB32 ***
 INCLUDING SOURCE(S): FWYEB32 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
61.00489	468330.00	3769866.69	43.85020	468355.00	3769866.69
133.82713	468380.00	3769866.69	89.20025	468405.00	3769866.69
36.99955	468430.00	3769866.69	187.27743	468330.00	3769891.69
63.56532	468355.00	3769891.69	48.27754	468380.00	3769891.69
99.97582	468405.00	3769891.69	82.23818	468430.00	3769891.69
37.65983	468330.00	3769916.69	30.60365	468355.00	3769916.69
54.83765	468380.00	3769916.69	46.02361	468405.00	3769916.69
25.19559	468430.00	3769916.69	62.46458	468330.00	3769941.69
34.45047	468355.00	3769941.69	29.64215	468380.00	3769941.69
43.00218	468405.00	3769941.69	39.11620	468430.00	3769941.69
23.72499	468330.00	3769966.69	20.84829	468355.00	3769966.69
29.36397	468380.00	3769966.69	26.65469	468405.00	3769966.69
17.41633	468430.00	3769966.69	31.58563	468330.00	3769991.69
21.22493	468355.00	3769991.69	19.34153	468380.00	3769991.69
16.04573	468330.00	3770016.69	14.69870	468355.00	3770016.69
12.54721	468380.00	3770016.69	17.31404	468330.00	3770041.69
14.40992	468355.00	3770041.69	13.51199	468380.00	3770041.69
11.54035	468330.00	3770066.69	10.83528	468355.00	3770066.69
9.45002	468380.00	3770066.69	12.18674	468330.00	3770091.69
10.45491	468355.00	3770091.69	9.97989	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB33 ***
 INCLUDING SOURCE(S): FWYEB33 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
43.27696	468330.00	3769866.69	32.62124	468355.00	3769866.69
87.08918	468380.00	3769866.69	60.00291	468405.00	3769866.69
28.62380	468430.00	3769866.69	128.47975	468330.00	3769891.69
47.30712	468355.00	3769891.69	36.44475	468380.00	3769891.69
79.42970	468405.00	3769891.69	61.93032	468430.00	3769891.69
30.15021	468330.00	3769916.69	24.67477	468355.00	3769916.69
44.93407	468380.00	3769916.69	36.94764	468405.00	3769916.69
21.06790	468430.00	3769916.69	53.27545	468330.00	3769941.69
29.11156	468355.00	3769941.69	24.82286	468380.00	3769941.69
38.17433	468405.00	3769941.69	33.72293	468430.00	3769941.69
20.55104	468330.00	3769966.69	17.96553	468355.00	3769966.69
26.15424	468380.00	3769966.69	23.33216	468405.00	3769966.69
15.37135	468430.00	3769966.69	28.75559	468330.00	3769991.69
19.04767	468355.00	3769991.69	17.18155	468380.00	3769991.69
14.51893	468330.00	3770016.69	13.21363	468355.00	3770016.69
11.44873	468380.00	3770016.69	15.82303	468330.00	3770041.69
13.34340	468355.00	3770041.69	12.40237	468380.00	3770041.69
10.71592	468330.00	3770066.69	10.00440	468355.00	3770066.69
8.80939	468380.00	3770066.69	11.40154	468330.00	3770091.69
9.86454	468355.00	3770091.69	9.35294	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB34 ***
 INCLUDING SOURCE(S): FWYEB34 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
32.23191	468330.00	3769866.69	25.23548	468355.00	3769866.69
58.88641	468380.00	3769866.69	42.66907	468405.00	3769866.69
22.72858	468430.00	3769866.69	84.45441	468330.00	3769891.69
35.82018	468355.00	3769891.69	28.24180	468380.00	3769891.69
60.06572	468405.00	3769891.69	46.29192	468430.00	3769891.69
24.34422	468330.00	3769916.69	20.16236	468355.00	3769916.69
36.13375	468380.00	3769916.69	29.61659	468405.00	3769916.69
17.70616	468430.00	3769916.69	43.72262	468330.00	3769941.69
24.39518	468355.00	3769941.69	20.78092	468380.00	3769941.69
32.92109	468405.00	3769941.69	28.51600	468430.00	3769941.69
17.72454	468330.00	3769966.69	15.48379	468355.00	3769966.69
22.89550	468380.00	3769966.69	20.21533	468405.00	3769966.69
13.53373	468430.00	3769966.69	25.60515	468330.00	3769991.69
16.91901	468355.00	3769991.69	15.17246	468380.00	3769991.69
13.05600	468330.00	3770016.69	11.84110	468355.00	3770016.69
10.40747	468380.00	3770016.69	14.32134	468330.00	3770041.69
12.24855	468355.00	3770041.69	11.31803	468380.00	3770041.69
9.89428	468330.00	3770066.69	9.20090	468355.00	3770066.69
8.17952	468380.00	3770066.69	10.58662	468330.00	3770091.69
9.24370	468355.00	3770091.69	8.71813	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB35 ***
 INCLUDING SOURCE(S): FWYEB35 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
25.17510	468330.00	3769866.69	20.28473	468355.00	3769866.69
42.57560	468380.00	3769866.69	32.16958	468405.00	3769866.69
18.60996	468430.00	3769866.69	58.54287	468330.00	3769891.69
28.12404	468355.00	3769891.69	22.65601	468380.00	3769891.69
45.87425	468405.00	3769891.69	35.65201	468430.00	3769891.69
20.09891	468330.00	3769916.69	16.85577	468355.00	3769916.69
29.40530	468380.00	3769916.69	24.20756	468405.00	3769916.69
15.12264	468430.00	3769916.69	35.80781	468330.00	3769941.69
20.65921	468355.00	3769941.69	17.64251	468380.00	3769941.69
28.27185	468405.00	3769941.69	24.22102	468430.00	3769941.69
15.42386	468330.00	3769966.69	13.49564	468355.00	3769966.69
20.07596	468380.00	3769966.69	17.62050	468405.00	3769966.69
12.01212	468430.00	3769966.69	22.71366	468330.00	3769991.69
15.08552	468355.00	3769991.69	13.47968	468380.00	3769991.69
11.79834	468330.00	3770016.69	10.67622	468355.00	3770016.69
9.50791	468380.00	3770016.69	12.99708	468330.00	3770041.69
11.27192	468355.00	3770041.69	10.36952	468380.00	3770041.69
9.16637	468330.00	3770066.69	8.49768	468355.00	3770066.69
7.62301	468380.00	3770066.69	9.85106	468330.00	3770091.69
8.67853	468355.00	3770091.69	8.15029	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB36 ***
 INCLUDING SOURCE(S): FWYEB36 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
20.15251	468330.00	3769866.69	16.63120	468355.00	3769866.69
31.90592	468380.00	3769866.69	25.00162	468405.00	3769866.69
15.45870	468430.00	3769866.69	42.03797	468330.00	3769891.69
22.44729	468355.00	3769891.69	18.46943	468380.00	3769891.69
35.08479	468405.00	3769891.69	27.82110	468430.00	3769891.69
16.72461	468330.00	3769916.69	14.21480	468355.00	3769916.69
23.88840	468380.00	3769916.69	19.88257	468405.00	3769916.69
12.96188	468430.00	3769916.69	28.92649	468330.00	3769941.69
17.44520	468355.00	3769941.69	14.99629	468380.00	3769941.69
23.83566	468405.00	3769941.69	20.38323	468430.00	3769941.69
13.37809	468330.00	3769966.69	11.75647	468355.00	3769966.69
17.38924	468380.00	3769966.69	15.24985	468405.00	3769966.69
10.62603	468430.00	3769966.69	19.77222	468330.00	3769991.69
13.32965	468355.00	3769991.69	11.90572	468380.00	3769991.69
10.58572	468330.00	3770016.69	9.57733	468355.00	3770016.69
8.63427	468380.00	3770016.69	11.68158	468330.00	3770041.69
10.27297	468355.00	3770041.69	9.42783	468380.00	3770041.69
8.42635	468330.00	3770066.69	7.79832	468355.00	3770066.69
7.05857	468380.00	3770066.69	9.08042	468330.00	3770091.69
8.07426	468355.00	3770091.69	7.56146	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB37 ***
 INCLUDING SOURCE(S): FWYEB37 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
16.55054	468330.00	3769866.69	13.92551	468355.00	3769866.69
24.86062	468380.00	3769866.69	20.05389	468405.00	3769866.69
13.07120	468430.00	3769866.69	31.62949	468330.00	3769891.69
18.34175	468355.00	3769891.69	15.36967	468380.00	3769891.69
27.49851	468405.00	3769891.69	22.27134	468430.00	3769891.69
14.12971	468330.00	3769916.69	12.15754	468355.00	3769916.69
19.68166	468380.00	3769916.69	16.58511	468405.00	3769916.69
11.22547	468430.00	3769916.69	23.59214	468330.00	3769941.69
14.86318	468355.00	3769941.69	12.87681	468380.00	3769941.69
20.12530	468405.00	3769941.69	17.26060	468430.00	3769941.69
11.67422	468330.00	3769966.69	10.31359	468355.00	3769966.69
15.08613	468380.00	3769966.69	13.25518	468405.00	3769966.69
9.44076	468430.00	3769966.69	17.17196	468330.00	3769991.69
11.79508	468355.00	3769991.69	10.54866	468380.00	3769991.69
9.50944	468330.00	3770016.69	8.61193	468355.00	3770016.69
7.84911	468380.00	3770016.69	10.49701	468330.00	3770041.69
9.35215	468355.00	3770041.69	8.57226	468380.00	3770041.69
7.74140	468330.00	3770066.69	7.15799	468355.00	3770066.69
6.53394	468380.00	3770066.69	8.35683	468330.00	3770091.69
7.49837	468355.00	3770091.69	7.00833	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB38 ***
 INCLUDING SOURCE(S): FWYEB38 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
13.84768	468330.00	3769866.69	11.84036	468355.00	3769866.69
19.92977	468380.00	3769866.69	16.45795	468405.00	3769866.69
11.20078	468430.00	3769866.69	24.64401	468330.00	3769891.69
15.25961	468355.00	3769891.69	12.99069	468380.00	3769891.69
22.02554	468405.00	3769891.69	18.19652	468430.00	3769891.69
12.08168	468330.00	3769916.69	10.51187	468355.00	3769916.69
16.42250	468380.00	3769916.69	14.01229	468405.00	3769916.69
9.80229	468430.00	3769916.69	19.45114	468330.00	3769941.69
12.76430	468355.00	3769941.69	11.15036	468380.00	3769941.69
17.05313	468405.00	3769941.69	14.71135	468430.00	3769941.69
10.24101	468330.00	3769966.69	9.10002	468355.00	3769966.69
13.11732	468380.00	3769966.69	11.56905	468405.00	3769966.69
8.41782	468430.00	3769966.69	14.90487	468330.00	3769991.69
10.45232	468355.00	3769991.69	9.37200	468380.00	3769991.69
8.55052	468330.00	3770016.69	7.75776	468355.00	3770016.69
7.13883	468380.00	3770016.69	9.43017	468330.00	3770041.69
8.50303	468355.00	3770041.69	7.79189	468380.00	3770041.69
7.10455	468330.00	3770066.69	6.56777	468355.00	3770066.69
6.04268	468380.00	3770066.69	7.67648	468330.00	3770091.69
6.94833	468355.00	3770091.69	6.48596	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB39 ***
 INCLUDING SOURCE(S): FWYEB39 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
11.77590	468330.00	3769866.69	10.20567	468355.00	3769866.69
16.36378	468380.00	3769866.69	13.77381	468405.00	3769866.69
9.71478	468430.00	3769866.69	19.77460	468330.00	3769891.69
12.90388	468355.00	3769891.69	11.13508	468380.00	3769891.69
18.01946	468405.00	3769891.69	15.15021	468430.00	3769891.69
10.45069	468330.00	3769916.69	9.18309	468355.00	3769916.69
13.88868	468380.00	3769916.69	11.98968	468405.00	3769916.69
8.63118	468430.00	3769916.69	16.25284	468330.00	3769941.69
11.06130	468355.00	3769941.69	9.74150	468380.00	3769941.69
14.55414	468405.00	3769941.69	12.64679	468430.00	3769941.69
9.04080	468330.00	3769966.69	8.08048	468355.00	3769966.69
11.45989	468380.00	3769966.69	10.15649	468405.00	3769966.69
7.53983	468430.00	3769966.69	12.97537	468330.00	3769991.69
9.29317	468355.00	3769991.69	8.36106	468380.00	3769991.69
7.70629	468330.00	3770016.69	7.00887	468355.00	3770016.69
6.50379	468380.00	3770016.69	8.48454	468330.00	3770041.69
7.73300	468355.00	3770041.69	7.08993	468380.00	3770041.69
6.52120	468330.00	3770066.69	6.03082	468355.00	3770066.69
5.58901	468380.00	3770066.69	7.04792	468330.00	3770091.69
6.43250	468355.00	3770091.69	6.00020	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB40 ***
 INCLUDING SOURCE(S): FWYEB40 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
10.17443	468330.00	3769866.69	8.91779	468355.00	3769866.69
13.73428	468380.00	3769866.69	11.74370	468405.00	3769866.69
8.53027	468430.00	3769866.69	16.29091	468330.00	3769891.69
11.08873	468355.00	3769891.69	9.67945	468380.00	3769891.69
15.05477	468405.00	3769891.69	12.84802	468430.00	3769891.69
9.14905	468330.00	3769916.69	8.10961	468355.00	3769916.69
11.91818	468380.00	3769916.69	10.39661	468405.00	3769916.69
7.67097	468430.00	3769916.69	13.79229	468330.00	3769941.69
9.68717	468355.00	3769941.69	8.59583	468380.00	3769941.69
12.55282	468405.00	3769941.69	10.99036	468430.00	3769941.69
8.04465	468330.00	3769966.69	7.23073	468355.00	3769966.69
10.08779	468380.00	3769966.69	8.98737	468405.00	3769966.69
6.79521	468430.00	3769966.69	11.37079	468330.00	3769991.69
8.30944	468355.00	3769991.69	7.50416	468380.00	3769991.69
6.97641	468330.00	3770016.69	6.36308	468355.00	3770016.69
5.94730	468380.00	3770016.69	7.66322	468330.00	3770041.69
7.05096	468355.00	3770041.69	6.47210	468380.00	3770041.69
5.99951	468330.00	3770066.69	5.55312	468355.00	3770066.69
5.17997	468380.00	3770066.69	6.48216	468330.00	3770091.69
5.96205	468355.00	3770091.69	5.55981	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB41 ***
 INCLUDING SOURCE(S): FWYEB41 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
8.89296	468330.00	3769866.69	7.87045	468355.00	3769866.69
11.71403	468380.00	3769866.69	10.14948	468405.00	3769866.69
7.55880	468430.00	3769866.69	13.68120	468330.00	3769891.69
9.64352	468355.00	3769891.69	8.50226	468380.00	3769891.69
12.77789	468405.00	3769891.69	11.04666	468430.00	3769891.69
8.08265	468330.00	3769916.69	7.22001	468355.00	3769916.69
10.34212	468380.00	3769916.69	9.10690	468405.00	3769916.69
6.86554	468430.00	3769916.69	11.84658	468330.00	3769941.69
8.55320	468355.00	3769941.69	7.64288	468380.00	3769941.69
10.91948	468405.00	3769941.69	9.63257	468430.00	3769941.69
7.20209	468330.00	3769966.69	6.50825	468355.00	3769966.69
8.93377	468380.00	3769966.69	8.00233	468405.00	3769966.69
6.15282	468430.00	3769966.69	10.01928	468330.00	3769991.69
7.46280	468355.00	3769991.69	6.76648	468380.00	3769991.69
6.33674	468330.00	3770016.69	5.79740	468355.00	3770016.69
5.45242	468380.00	3770016.69	6.94163	468330.00	3770041.69
6.44018	468355.00	3770041.69	5.92123	468380.00	3770041.69
5.52695	468330.00	3770066.69	5.12210	468355.00	3770066.69
4.80595	468380.00	3770066.69	5.96688	468330.00	3770091.69
5.52733	468355.00	3770091.69	5.15522	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB42 ***
 INCLUDING SOURCE(S): FWYEB42 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
7.83960	468330.00	3769866.69	6.99724	468355.00	3769866.69
10.11186	468380.00	3769866.69	8.86061	468405.00	3769866.69
6.74389	468430.00	3769866.69	11.65597	468330.00	3769891.69
8.46283	468355.00	3769891.69	7.52704	468380.00	3769891.69
10.97703	468405.00	3769891.69	9.59797	468430.00	3769891.69
7.19037	468330.00	3769916.69	6.46763	468355.00	3769916.69
9.05247	468380.00	3769916.69	8.03947	468405.00	3769916.69
6.17742	468430.00	3769916.69	10.27261	468330.00	3769941.69
7.59997	468355.00	3769941.69	6.83552	468380.00	3769941.69
9.56470	468405.00	3769941.69	8.49954	468430.00	3769941.69
6.47831	468330.00	3769966.69	5.88397	468355.00	3769966.69
7.95021	468380.00	3769966.69	7.16004	468405.00	3769966.69
5.59085	468430.00	3769966.69	8.86860	468330.00	3769991.69
6.72573	468355.00	3769991.69	6.12328	468380.00	3769991.69
5.77002	468330.00	3770016.69	5.29564	468355.00	3770016.69
5.00726	468380.00	3770016.69	6.30198	468330.00	3770041.69
5.88895	468355.00	3770041.69	5.42530	468380.00	3770041.69
5.09502	468330.00	3770066.69	4.72915	468355.00	3770066.69
4.46052	468380.00	3770066.69	5.49395	468330.00	3770091.69
5.12230	468355.00	3770091.69	4.78025	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB43 ***
 INCLUDING SOURCE(S): FWYEB43 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
6.97351	468330.00	3769866.69	6.27036	468355.00	3769866.69
8.83362	468380.00	3769866.69	7.81571	468405.00	3769866.69
6.06135	468430.00	3769866.69	10.06972	468330.00	3769891.69
7.49684	468355.00	3769891.69	6.71922	468380.00	3769891.69
9.54585	468405.00	3769891.69	8.42890	468430.00	3769891.69
6.44466	468330.00	3769916.69	5.83286	468355.00	3769916.69
7.99758	468380.00	3769916.69	7.15659	468405.00	3769916.69
5.59205	468430.00	3769916.69	8.99996	468330.00	3769941.69
6.80173	468355.00	3769941.69	6.15398	468380.00	3769941.69
8.44770	468405.00	3769941.69	7.55832	468430.00	3769941.69
5.86041	468330.00	3769966.69	5.34796	468355.00	3769966.69
7.11918	468380.00	3769966.69	6.44494	468405.00	3769966.69
5.10339	468430.00	3769966.69	7.89979	468330.00	3769991.69
6.09065	468355.00	3769991.69	5.56742	468380.00	3769991.69
5.27396	468330.00	3770016.69	4.85570	468355.00	3770016.69
4.61255	468380.00	3770016.69	5.74241	468330.00	3770041.69
5.39953	468355.00	3770041.69	4.98554	468380.00	3770041.69
4.70710	468330.00	3770066.69	4.37677	468355.00	3770066.69
3.07758	468380.00	3770066.69	5.06807	468330.00	3770091.69
4.75281	468355.00	3770091.69	4.43938	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB44 ***
 INCLUDING SOURCE(S): FWYEB44 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
4.85796	468330.00	3769866.69	4.39061	468355.00	3769866.69
7.79848	468380.00	3769866.69	6.95776	468405.00	3769866.69
5.48483	468430.00	3769866.69	8.80529	468330.00	3769891.69
6.69762	468355.00	3769891.69	6.04354	468380.00	3769891.69
8.39183	468405.00	3769891.69	7.47333	468430.00	3769891.69
5.81625	468330.00	3769916.69	5.29336	468355.00	3769916.69
7.12588	468380.00	3769916.69	6.41957	468405.00	3769916.69
5.09109	468430.00	3769916.69	7.95969	468330.00	3769941.69
6.12861	468355.00	3769941.69	5.57486	468380.00	3769941.69
7.52037	468405.00	3769941.69	6.77082	468430.00	3769941.69
5.33046	468330.00	3769966.69	4.88566	468355.00	3769966.69
6.41424	468380.00	3769966.69	5.83509	468405.00	3769966.69
4.67935	468430.00	3769966.69	7.08173	468330.00	3769991.69
5.54239	468355.00	3769991.69	5.08577	468380.00	3769991.69
4.83950	468330.00	3770016.69	4.46953	468355.00	3770016.69
3.18906	468380.00	3770016.69	5.25307	468330.00	3770041.69
4.96600	468355.00	3770041.69	4.59611	468380.00	3770041.69
4.35975	468330.00	3770066.69	3.01704	468355.00	3770066.69
2.84553	468380.00	3770066.69	4.68611	468330.00	3770091.69
4.41752	468355.00	3770091.69	3.07191	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB45 ***
 INCLUDING SOURCE(S): FWYEB45 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
4.32314	468330.00	3769866.69	3.93166	468355.00	3769866.69
6.92347	468380.00	3769866.69	4.82004	468405.00	3769866.69
4.97800	468430.00	3769866.69	7.75020	468330.00	3769891.69
6.00666	468355.00	3769891.69	5.45424	468380.00	3769891.69
7.41429	468405.00	3769891.69	6.65522	468430.00	3769891.69
5.26243	468330.00	3769916.69	4.81461	468355.00	3769916.69
6.36901	468380.00	3769916.69	5.77470	468405.00	3769916.69
4.64205	468430.00	3769916.69	7.06375	468330.00	3769941.69
5.53186	468355.00	3769941.69	5.05862	468380.00	3769941.69
6.70702	468405.00	3769941.69	6.07648	468430.00	3769941.69
4.85219	468330.00	3769966.69	4.46681	468355.00	3769966.69
5.78219	468380.00	3769966.69	5.28665	468405.00	3769966.69
4.29068	468430.00	3769966.69	6.34979	468330.00	3769991.69
5.04161	468355.00	3769991.69	4.64525	468380.00	3769991.69
4.43632	468330.00	3770016.69	3.07956	468355.00	3770016.69
2.90647	468380.00	3770016.69	4.79865	468330.00	3770041.69
4.55627	468355.00	3770041.69	4.22912	468380.00	3770041.69
2.98483	468330.00	3770066.69	2.76037	468355.00	3770066.69
2.61369	468380.00	3770066.69	3.22159	468330.00	3770091.69
3.00213	468355.00	3770091.69	2.81484	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB46 ***
 INCLUDING SOURCE(S): FWYEB46 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
3.83515	468330.00	3769866.69	3.50853	468355.00	3769866.69
4.75074	468380.00	3769866.69	4.24637	468405.00	3769866.69
3.42627	468430.00	3769866.69	6.87763	468330.00	3769891.69
4.10459	468355.00	3769891.69	3.74121	468380.00	3769891.69
6.60093	468405.00	3769891.69	5.96670	468430.00	3769891.69
4.78514	468330.00	3769916.69	3.31758	468355.00	3769916.69
5.72810	468380.00	3769916.69	5.22358	468405.00	3769916.69
3.17936	468430.00	3769916.69	6.31266	468330.00	3769941.69
5.01882	468355.00	3769941.69	4.61150	468380.00	3769941.69
6.01914	468405.00	3769941.69	5.48427	468430.00	3769941.69
4.43559	468330.00	3769966.69	3.05424	468355.00	3769966.69
5.23868	468380.00	3769966.69	4.81194	468405.00	3769966.69
2.93816	468430.00	3769966.69	5.72459	468330.00	3769991.69
4.60489	468355.00	3769991.69	4.25910	468380.00	3769991.69
3.03435	468330.00	3770016.69	2.77808	468355.00	3770016.69
2.63262	468380.00	3770016.69	4.39910	468330.00	3770041.69
3.11335	468355.00	3770041.69	2.85872	468380.00	3770041.69
2.70448	468330.00	3770066.69	2.50916	468355.00	3770066.69
2.38421	468380.00	3770066.69	2.91015	468330.00	3770091.69
2.72509	468355.00	3770091.69	2.56037	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB47 ***
 INCLUDING SOURCE(S): FWYEB47 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
3.48596	468330.00	3769866.69	3.20397	468355.00	3769866.69
4.27016	468380.00	3769866.69	3.83950	468405.00	3769866.69
3.13418	468430.00	3769866.69	6.15623	468330.00	3769891.69
3.71962	468355.00	3769891.69	3.40705	468380.00	3769891.69
5.92290	468405.00	3769891.69	5.38714	468430.00	3769891.69
4.37409	468330.00	3769916.69	3.04040	468355.00	3769916.69
5.18430	468380.00	3769916.69	4.75233	468405.00	3769916.69
2.91948	468430.00	3769916.69	5.68069	468330.00	3769941.69
4.57676	468355.00	3769941.69	4.22384	468380.00	3769941.69
5.43437	468405.00	3769941.69	4.97735	468430.00	3769941.69
4.07177	468330.00	3769966.69	2.81005	468355.00	3769966.69
4.76892	468380.00	3769966.69	4.39948	468405.00	3769966.69
2.70877	468430.00	3769966.69	5.18705	468330.00	3769991.69
4.22198	468355.00	3769991.69	3.91918	468380.00	3769991.69
2.79550	468330.00	3770016.69	2.56762	468355.00	3770016.69
2.43996	468380.00	3770016.69	4.04531	468330.00	3770041.69
2.86919	468355.00	3770041.69	2.64217	468380.00	3770041.69
2.50790	468330.00	3770066.69	2.33225	468355.00	3770066.69
2.22275	468380.00	3770066.69	2.69239	468330.00	3770091.69
2.53095	468355.00	3770091.69	2.38215	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB48 ***
 INCLUDING SOURCE(S): FWYEB48 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
3.18547	468330.00	3769866.69	2.94004	468355.00	3769866.69
3.86342	468380.00	3769866.69	3.49210	468405.00	3769866.69
2.88057	468430.00	3769866.69	5.54879	468330.00	3769891.69
3.39002	468355.00	3769891.69	3.11885	468380.00	3769891.69
5.34997	468405.00	3769891.69	4.89288	468430.00	3769891.69
4.01696	468330.00	3769916.69	2.79916	468355.00	3769916.69
4.71879	468380.00	3769916.69	4.34580	468405.00	3769916.69
2.69265	468430.00	3769916.69	5.14428	468330.00	3769941.69
4.19398	468355.00	3769941.69	3.88595	468380.00	3769941.69
4.93532	468405.00	3769941.69	4.54146	468430.00	3769941.69
3.75348	468330.00	3769966.69	2.59626	468355.00	3769966.69
4.36290	468380.00	3769966.69	4.04077	468405.00	3769966.69
2.50724	468430.00	3769966.69	4.72547	468330.00	3769991.69
3.88733	468355.00	3769991.69	3.62057	468380.00	3769991.69
2.58561	468330.00	3770016.69	2.38186	468355.00	3770016.69
2.26905	468380.00	3770016.69	3.73447	468330.00	3770041.69
2.65417	468355.00	3770041.69	2.45077	468380.00	3770041.69
2.33313	468330.00	3770066.69	2.17451	468355.00	3770066.69
2.07805	468380.00	3770066.69	2.49928	468330.00	3770091.69
2.35759	468355.00	3770091.69	2.22279	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB49 ***
 INCLUDING SOURCE(S): FWYEB49 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
2.92886	468330.00	3769866.69	2.71328	468355.00	3769866.69
3.52122	468380.00	3769866.69	3.19751	468405.00	3769866.69
2.66271	468430.00	3769866.69	5.03249	468330.00	3769891.69
3.11024	468355.00	3769891.69	2.87268	468380.00	3769891.69
4.86149	468405.00	3769891.69	4.46797	468430.00	3769891.69
3.70476	468330.00	3769916.69	2.59176	468355.00	3769916.69
4.31728	468380.00	3769916.69	3.99269	468405.00	3769916.69
2.49726	468430.00	3769916.69	4.68510	468330.00	3769941.69
3.86038	468355.00	3769941.69	3.58974	468380.00	3769941.69
4.50611	468405.00	3769941.69	4.16400	468430.00	3769941.69
3.47354	468330.00	3769966.69	2.41165	468355.00	3769966.69
4.00972	468380.00	3769966.69	3.72695	468405.00	3769966.69
2.33270	468430.00	3769966.69	4.32635	468330.00	3769991.69
3.59331	468355.00	3769991.69	3.35697	468380.00	3769991.69
2.40375	468330.00	3770016.69	2.22024	468355.00	3770016.69
2.11962	468380.00	3770016.69	3.46006	468330.00	3770041.69
2.46756	468355.00	3770041.69	2.28403	468380.00	3770041.69
2.18016	468330.00	3770066.69	2.03603	468355.00	3770066.69
1.95052	468380.00	3770066.69	2.33071	468330.00	3770091.69
2.20543	468355.00	3770091.69	2.08270	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB50 ***
 INCLUDING SOURCE(S): FWYEB50 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
2.70382	468330.00	3769866.69	2.51327	468355.00	3769866.69
3.22508	468380.00	3769866.69	2.94078	468405.00	3769866.69
2.47013	468430.00	3769866.69	4.58902	468330.00	3769891.69
2.86573	468355.00	3769891.69	2.65626	468380.00	3769891.69
4.44075	468405.00	3769891.69	4.09928	468430.00	3769891.69
3.42976	468330.00	3769916.69	2.40798	468355.00	3769916.69
3.96785	468380.00	3769916.69	3.68344	468405.00	3769916.69
2.32369	468430.00	3769916.69	4.28821	468330.00	3769941.69
3.56735	468355.00	3769941.69	3.32815	468380.00	3769941.69
4.13358	468405.00	3769941.69	3.83435	468430.00	3769941.69
3.22558	468330.00	3769966.69	2.24724	468355.00	3769966.69
3.70003	468380.00	3769966.69	3.45035	468405.00	3769966.69
2.17682	468430.00	3769966.69	3.97829	468330.00	3769991.69
3.33316	468355.00	3769991.69	3.12272	468380.00	3769991.69
2.24134	468330.00	3770016.69	2.07537	468355.00	3770016.69
1.98511	468380.00	3770016.69	3.21627	468330.00	3770041.69
2.30066	468355.00	3770041.69	2.13441	468380.00	3770041.69
2.04221	468330.00	3770066.69	1.91082	468355.00	3770066.69
1.83469	468380.00	3770066.69	2.17906	468330.00	3770091.69
2.06775	468355.00	3770091.69	1.95573	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB51 ***
 INCLUDING SOURCE(S): FWYEB51 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
2.50162	468330.00	3769866.69	2.33254	468355.00	3769866.69
2.96278	468380.00	3769866.69	2.71166	468405.00	3769866.69
2.29601	468430.00	3769866.69	4.20392	468330.00	3769891.69
2.64725	468355.00	3769891.69	2.46169	468380.00	3769891.69
4.07355	468405.00	3769891.69	3.77554	468430.00	3769891.69
3.18473	468330.00	3769916.69	2.24172	468355.00	3769916.69
3.65953	468380.00	3769916.69	3.40920	468405.00	3769916.69
2.16657	468430.00	3769916.69	3.93990	468330.00	3769941.69
3.30625	468355.00	3769941.69	3.09407	468380.00	3769941.69
3.80470	468405.00	3769941.69	3.54194	468430.00	3769941.69
3.00268	468330.00	3769966.69	2.09831	468355.00	3769966.69
3.42374	468380.00	3769966.69	3.20263	468405.00	3769966.69
2.03537	468430.00	3769966.69	3.66901	468330.00	3769991.69
3.09888	468355.00	3769991.69	2.91109	468380.00	3769991.69
2.09378	468330.00	3770016.69	1.94345	468355.00	3770016.69
1.86192	468380.00	3770016.69	2.99539	468330.00	3770041.69
2.14814	468355.00	3770041.69	1.99753	468380.00	3770041.69
1.91495	468330.00	3770066.69	1.79527	468355.00	3770066.69
1.72690	468380.00	3770066.69	2.03919	468330.00	3770091.69
1.93954	468355.00	3770091.69	1.83757	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB52 ***
 INCLUDING SOURCE(S): FWYEB52 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
2.32254	468330.00	3769866.69	2.17170	468355.00	3769866.69
2.73299	468380.00	3769866.69	2.50980	468405.00	3769866.69
2.14077	468430.00	3769866.69	3.86794	468330.00	3769891.69
2.45431	468355.00	3769891.69	2.28901	468380.00	3769891.69
3.75265	468405.00	3769891.69	3.49088	468430.00	3769891.69
2.96661	468330.00	3769916.69	2.09316	468355.00	3769916.69
3.38791	468380.00	3769916.69	3.16629	468405.00	3769916.69
2.02586	468430.00	3769916.69	3.63484	468330.00	3769941.69
3.07453	468355.00	3769941.69	2.88534	468380.00	3769941.69
3.51586	468405.00	3769941.69	3.28373	468430.00	3769941.69
2.80353	468330.00	3769966.69	1.96464	468355.00	3769966.69
3.17911	468380.00	3769966.69	2.98227	468405.00	3769966.69
1.90814	468430.00	3769966.69	3.39653	468330.00	3769991.69
2.88994	468355.00	3769991.69	2.72159	468380.00	3769991.69
1.96121	468330.00	3770016.69	1.82450	468355.00	3770016.69
1.75052	468380.00	3770016.69	2.79783	468330.00	3770041.69
2.01113	468355.00	3770041.69	1.87416	468380.00	3770041.69
1.79985	468330.00	3770066.69	1.69048	468355.00	3770066.69
1.62883	468380.00	3770066.69	1.91304	468330.00	3770091.69
1.82343	468355.00	3770091.69	1.73033	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB53 ***
 INCLUDING SOURCE(S): FWYEB53 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
2.16307	468330.00	3769866.69	2.02784	468355.00	3769866.69
2.53040	468380.00	3769866.69	2.33090	468405.00	3769866.69
2.00167	468430.00	3769866.69	3.57280	468330.00	3769891.69
2.28293	468355.00	3769891.69	2.13494	468380.00	3769891.69
3.47032	468405.00	3769891.69	3.23902	468430.00	3769891.69
2.77144	468330.00	3769916.69	1.95977	468355.00	3769916.69
3.14716	468380.00	3769916.69	2.94993	468405.00	3769916.69
1.89926	468430.00	3769916.69	3.36589	468330.00	3769941.69
2.86776	468355.00	3769941.69	2.69829	468380.00	3769941.69
3.26058	468405.00	3769941.69	3.05439	468430.00	3769941.69
2.62473	468330.00	3769966.69	1.84413	468355.00	3769966.69
2.96131	468380.00	3769966.69	2.78522	468405.00	3769966.69
1.79319	468430.00	3769966.69	3.15502	468330.00	3769991.69
2.70266	468355.00	3769991.69	2.55110	468380.00	3769991.69
1.84156	468330.00	3770016.69	1.71678	468355.00	3770016.69
1.64940	468380.00	3770016.69	2.62029	468330.00	3770041.69
1.88752	468355.00	3770041.69	1.76251	468380.00	3770041.69
1.69537	468330.00	3770066.69	1.59510	468355.00	3770066.69
1.53930	468380.00	3770066.69	1.79882	468330.00	3770091.69
1.71790	468355.00	3770091.69	1.63266	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB54 ***
 INCLUDING SOURCE(S): FWYEB54 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
2.02050	468330.00	3769866.69	1.89869	468355.00	3769866.69
2.35089	468380.00	3769866.69	2.17164	468405.00	3769866.69
1.87658	468430.00	3769866.69	3.31218	468330.00	3769891.69
2.13004	468355.00	3769891.69	1.99691	468380.00	3769891.69
3.22065	468405.00	3769891.69	3.01514	468430.00	3769891.69
2.59615	468330.00	3769916.69	1.83959	468355.00	3769916.69
2.93282	468380.00	3769916.69	2.75643	468405.00	3769916.69
1.78496	468430.00	3769916.69	3.12760	468330.00	3769941.69
2.68252	468355.00	3769941.69	2.53004	468380.00	3769941.69
3.03388	468405.00	3769941.69	2.84981	468430.00	3769941.69
2.46363	468330.00	3769966.69	1.73512	468355.00	3769966.69
2.76657	468380.00	3769966.69	2.60835	468405.00	3769966.69
1.68903	468430.00	3769966.69	2.94001	468330.00	3769991.69
2.53419	468355.00	3769991.69	2.39719	468380.00	3769991.69
1.73326	468330.00	3770016.69	1.61897	468355.00	3770016.69
1.55736	468380.00	3770016.69	2.46020	468330.00	3770041.69
1.77565	468355.00	3770041.69	1.66117	468380.00	3770041.69
1.60026	468330.00	3770066.69	1.50806	468355.00	3770066.69
1.45738	468380.00	3770066.69	1.69510	468330.00	3770091.69
1.62175	468355.00	3770091.69	1.54349	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB55 ***
 INCLUDING SOURCE(S): FWYEB55 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
1.90182	468330.00	3769866.69	1.79085	468355.00	3769866.69
2.20300	468380.00	3769866.69	2.03969	468405.00	3769866.69
1.77288	468430.00	3769866.69	3.08138	468330.00	3769891.69
2.00401	468355.00	3769891.69	1.88281	468380.00	3769891.69
2.99923	468405.00	3769891.69	2.81566	468430.00	3769891.69
2.43846	468330.00	3769916.69	1.74041	468355.00	3769916.69
2.74155	468380.00	3769916.69	2.58303	468405.00	3769916.69
1.69069	468430.00	3769916.69	2.91589	468330.00	3769941.69
2.51627	468355.00	3769941.69	2.37848	468380.00	3769941.69
2.83206	468405.00	3769941.69	2.66691	468430.00	3769941.69
2.31828	468330.00	3769966.69	1.64518	468355.00	3769966.69
2.59213	468380.00	3769966.69	2.44932	468405.00	3769966.69
1.60299	468430.00	3769966.69	2.74814	468330.00	3769991.69
2.38241	468355.00	3769991.69	2.25808	468380.00	3769991.69
1.64362	468330.00	3770016.69	1.53770	468355.00	3770016.69
1.48050	468380.00	3770016.69	2.31566	468330.00	3770041.69
1.68298	468355.00	3770041.69	1.57685	468380.00	3770041.69
1.52092	468330.00	3770066.69	1.43522	468355.00	3770066.69
1.38873	468380.00	3770066.69	1.60881	468330.00	3770091.69
1.54156	468355.00	3770091.69	1.46901	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB1 ***
 INCLUDING SOURCE(S): FWYWB1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
4.32998	468330.00	3769866.69	4.62663	468355.00	3769866.69
3.81116	468380.00	3769866.69	4.05854	468405.00	3769866.69
4.88165	468430.00	3769866.69	3.59006	468330.00	3769891.69
4.27348	468355.00	3769891.69	4.56169	468380.00	3769891.69
3.77665	468405.00	3769891.69	4.01028	468430.00	3769891.69
4.79107	468330.00	3769916.69	5.13681	468355.00	3769916.69
4.21183	468380.00	3769916.69	4.48690	468405.00	3769916.69
5.38613	468430.00	3769916.69	3.96208	468330.00	3769941.69
4.69757	468355.00	3769941.69	5.01983	468380.00	3769941.69
4.14172	468405.00	3769941.69	4.40620	468430.00	3769941.69
5.23046	468330.00	3769966.69	5.61338	468355.00	3769966.69
4.58812	468380.00	3769966.69	4.89324	468405.00	3769966.69
5.81113	468430.00	3769966.69	4.31101	468330.00	3769991.69
5.06823	468355.00	3769991.69	5.41646	468380.00	3769991.69
5.58122	468330.00	3770016.69	5.98660	468355.00	3770016.69
6.11972	468380.00	3770016.69	5.21769	468330.00	3770041.69
5.34592	468355.00	3770041.69	5.71424	468380.00	3770041.69
5.80587	468330.00	3770066.69	6.20383	468355.00	3770066.69
6.24472	468380.00	3770066.69	5.44484	468330.00	3770091.69
5.50786	468355.00	3770091.69	5.85725	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB2 ***
 INCLUDING SOURCE(S): FWYWB2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
4.63431	468330.00	3769866.69	4.96517	468355.00	3769866.69
4.05900	468380.00	3769866.69	4.33278	468405.00	3769866.69
5.24618	468430.00	3769866.69	3.81518	468330.00	3769891.69
4.56824	468355.00	3769891.69	4.88883	468380.00	3769891.69
4.01857	468405.00	3769891.69	4.27656	468430.00	3769891.69
5.13941	468330.00	3769916.69	5.52572	468355.00	3769916.69
4.49593	468380.00	3769916.69	4.80092	468405.00	3769916.69
5.79659	468430.00	3769916.69	4.21994	468330.00	3769941.69
5.02911	468355.00	3769941.69	5.38758	468380.00	3769941.69
4.41392	468405.00	3769941.69	4.70613	468430.00	3769941.69
5.61342	468330.00	3769966.69	6.04022	468355.00	3769966.69
4.90110	468380.00	3769966.69	5.23889	468405.00	3769966.69
6.24812	468430.00	3769966.69	4.59524	468330.00	3769991.69
5.42381	468355.00	3769991.69	5.80956	468380.00	3769991.69
5.97978	468330.00	3770016.69	6.42848	468355.00	3770016.69
6.55911	468380.00	3770016.69	5.57846	468330.00	3770041.69
5.70777	468355.00	3770041.69	6.11260	468380.00	3770041.69
6.19763	468330.00	3770066.69	6.63312	468355.00	3770066.69
6.65765	468380.00	3770066.69	5.80302	468330.00	3770091.69
5.85729	468355.00	3770091.69	6.23668	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB3 ***
 INCLUDING SOURCE(S): FWYWB3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
4.97546	468330.00	3769866.69	5.34632	468355.00	3769866.69
4.33474	468380.00	3769866.69	4.63898	468405.00	3769866.69
5.65718	468430.00	3769866.69	4.06480	468330.00	3769891.69
4.89783	468355.00	3769891.69	5.25609	468380.00	3769891.69
4.28717	468405.00	3769891.69	4.57323	468430.00	3769891.69
5.53063	468330.00	3769916.69	5.96432	468355.00	3769916.69
4.81259	468380.00	3769916.69	5.15221	468405.00	3769916.69
6.25899	468430.00	3769916.69	4.50639	468330.00	3769941.69
5.39978	468355.00	3769941.69	5.80024	468380.00	3769941.69
4.71619	468405.00	3769941.69	5.04030	468430.00	3769941.69
6.04230	468330.00	3769966.69	6.51992	468355.00	3769966.69
5.24931	468380.00	3769966.69	5.62469	468405.00	3769966.69
6.73741	468430.00	3769966.69	4.91051	468330.00	3769991.69
5.81960	468355.00	3769991.69	6.24839	468380.00	3769991.69
6.42280	468330.00	3770016.69	6.92077	468355.00	3770016.69
7.04560	468380.00	3770016.69	5.97853	468330.00	3770041.69
6.10713	468355.00	3770041.69	6.55298	468380.00	3770041.69
6.62794	468330.00	3770066.69	7.10496	468355.00	3770066.69
7.10767	468380.00	3770066.69	6.19608	468330.00	3770091.69
6.23823	468355.00	3770091.69	6.65036	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB4 ***
 INCLUDING SOURCE(S): FWYWB4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
5.36054	468330.00	3769866.69	5.77853	468355.00	3769866.69
4.64349	468380.00	3769866.69	4.98317	468405.00	3769866.69
6.12401	468430.00	3769866.69	4.34329	468330.00	3769891.69
5.26886	468355.00	3769891.69	5.67130	468380.00	3769891.69
4.58720	468405.00	3769891.69	4.90586	468430.00	3769891.69
5.97306	468330.00	3769916.69	6.46254	468355.00	3769916.69
5.16778	468380.00	3769916.69	5.54781	468405.00	3769916.69
6.78348	468430.00	3769916.69	4.82650	468330.00	3769941.69
5.81683	468355.00	3769941.69	6.26639	468380.00	3769941.69
5.05384	468405.00	3769941.69	5.41488	468430.00	3769941.69
6.52559	468330.00	3769966.69	7.06244	468355.00	3769966.69
5.63897	468380.00	3769966.69	6.05788	468405.00	3769966.69
7.28839	468430.00	3769966.69	5.26218	468330.00	3769991.69
6.26259	468355.00	3769991.69	6.74106	468380.00	3769991.69
6.91765	468330.00	3770016.69	7.47189	468355.00	3770016.69
7.58633	468380.00	3770016.69	6.42440	468330.00	3770041.69
6.54979	468355.00	3770041.69	7.04181	468380.00	3770041.69
7.10210	468330.00	3770066.69	7.62504	468355.00	3770066.69
7.59890	468380.00	3770066.69	6.62891	468330.00	3770091.69
6.65455	468355.00	3770091.69	7.10235	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB5 ***
 INCLUDING SOURCE(S): FWYWB5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
5.79008	468330.00	3769866.69	6.26315	468355.00	3769866.69
4.98452	468380.00	3769866.69	5.36516	468405.00	3769866.69
6.64774	468430.00	3769866.69	4.64960	468330.00	3769891.69
5.68102	468355.00	3769891.69	6.13475	468380.00	3769891.69
4.91768	468405.00	3769891.69	5.27370	468430.00	3769891.69
6.46661	468330.00	3769916.69	7.02115	468355.00	3769916.69
5.56066	468380.00	3769916.69	5.98720	468405.00	3769916.69
7.37041	468430.00	3769916.69	5.17923	468330.00	3769941.69
6.27948	468355.00	3769941.69	6.78561	468380.00	3769941.69
5.42563	468405.00	3769941.69	5.82882	468430.00	3769941.69
7.06223	468330.00	3769966.69	7.66730	468355.00	3769966.69
6.06865	468380.00	3769966.69	6.53718	468405.00	3769966.69
7.89937	468430.00	3769966.69	5.64870	468330.00	3769991.69
6.75079	468355.00	3769991.69	7.28558	468380.00	3769991.69
7.46147	468330.00	3770016.69	8.07904	468355.00	3770016.69
8.17718	468380.00	3770016.69	6.91318	468330.00	3770041.69
7.03205	468355.00	3770041.69	7.57525	468380.00	3770041.69
7.61506	468330.00	3770066.69	8.18763	468355.00	3770066.69
8.12411	468380.00	3770066.69	7.09703	468330.00	3770091.69
7.10093	468355.00	3770091.69	7.58637	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB6 ***
 INCLUDING SOURCE(S): FWYWB6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
6.29390	468330.00	3769866.69	6.83462	468355.00	3769866.69
5.38150	468380.00	3769866.69	5.81136	468405.00	3769866.69
7.26724	468430.00	3769866.69	5.00481	468330.00	3769891.69
6.16361	468355.00	3769891.69	6.68003	468380.00	3769891.69
5.30130	468405.00	3769891.69	5.70265	468430.00	3769891.69
7.04791	468330.00	3769916.69	7.68213	468355.00	3769916.69
6.01880	468380.00	3769916.69	6.50203	468405.00	3769916.69
8.06329	468430.00	3769916.69	5.58871	468330.00	3769941.69
6.82076	468355.00	3769941.69	7.39600	468380.00	3769941.69
5.85681	468405.00	3769941.69	6.31094	468430.00	3769941.69
7.69101	468330.00	3769966.69	8.37852	468355.00	3769966.69
6.56791	468380.00	3769966.69	7.09638	468405.00	3769966.69
8.61382	468430.00	3769966.69	6.09608	468330.00	3769991.69
7.31810	468355.00	3769991.69	7.92062	468380.00	3769991.69
8.09125	468330.00	3770016.69	8.78304	468355.00	3770016.69
8.85560	468380.00	3770016.69	7.47824	468330.00	3770041.69
7.58551	468355.00	3770041.69	8.18769	468380.00	3770041.69
8.19850	468330.00	3770066.69	8.82687	468355.00	3770066.69
8.71372	468380.00	3770066.69	7.62951	468330.00	3770091.69
7.60378	468355.00	3770091.69	8.13121	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB7 ***
 INCLUDING SOURCE(S): FWYWB7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
6.85172	468330.00	3769866.69	7.47138	468355.00	3769866.69
5.81538	468380.00	3769866.69	6.30216	468405.00	3769866.69
7.95700	468430.00	3769866.69	5.39100	468330.00	3769891.69
6.69451	468355.00	3769891.69	7.28338	468380.00	3769891.69
5.71900	468405.00	3769891.69	6.17183	468430.00	3769891.69
7.68983	468330.00	3769916.69	8.41666	468355.00	3769916.69
6.51989	468380.00	3769916.69	7.06773	468405.00	3769916.69
8.83069	468430.00	3769916.69	6.03463	468330.00	3769941.69
7.41425	468355.00	3769941.69	8.06823	468380.00	3769941.69
6.32576	468405.00	3769941.69	6.83736	468430.00	3769941.69
8.38017	468330.00	3769966.69	9.16171	468355.00	3769966.69
7.11121	468380.00	3769966.69	7.70706	468405.00	3769966.69
9.39422	468430.00	3769966.69	6.58126	468330.00	3769991.69
7.93400	468355.00	3769991.69	8.61186	468380.00	3769991.69
8.77135	468330.00	3770016.69	9.54515	468355.00	3770016.69
9.58171	468380.00	3770016.69	8.08699	468330.00	3770041.69
8.17675	468355.00	3770041.69	8.84277	468380.00	3770041.69
8.81507	468330.00	3770066.69	9.50126	468355.00	3770066.69
9.32533	468380.00	3770066.69	8.19280	468330.00	3770091.69
8.12943	468355.00	3770091.69	8.69869	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB8 ***
 INCLUDING SOURCE(S): FWYWB8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
7.48619	468330.00	3769866.69	8.20050	468355.00	3769866.69
6.30287	468380.00	3769866.69	6.85687	468405.00	3769866.69
8.74692	468430.00	3769866.69	5.82263	468330.00	3769891.69
7.29494	468355.00	3769891.69	7.96984	468380.00	3769891.69
6.18643	468405.00	3769891.69	6.69946	468430.00	3769891.69
8.41901	468330.00	3769916.69	9.25622	468355.00	3769916.69
7.08315	468380.00	3769916.69	7.70685	468405.00	3769916.69
9.70420	468430.00	3769916.69	6.53354	468330.00	3769941.69
8.08296	468355.00	3769941.69	8.82931	468380.00	3769941.69
6.84952	468405.00	3769941.69	7.42783	468430.00	3769941.69
9.15610	468330.00	3769966.69	10.04729	468355.00	3769966.69
7.71825	468380.00	3769966.69	8.39195	468405.00	3769966.69
10.26865	468430.00	3769966.69	7.12140	468330.00	3769991.69
8.62025	468355.00	3769991.69	9.38416	468380.00	3769991.69
9.52409	468330.00	3770016.69	10.38979	468355.00	3770016.69
10.37574	468380.00	3770016.69	8.75963	468330.00	3770041.69
8.82366	468355.00	3770041.69	9.55961	468380.00	3770041.69
9.48061	468330.00	3770066.69	10.22689	468355.00	3770066.69
9.97105	468380.00	3770066.69	8.80208	468330.00	3770091.69
8.69034	468355.00	3770091.69	9.30149	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB9 ***
 INCLUDING SOURCE(S): FWYWB9 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
8.23981	468330.00	3769866.69	9.07277	468355.00	3769866.69
6.87569	468380.00	3769866.69	7.51192	468405.00	3769866.69
9.69402	468430.00	3769866.69	6.32723	468330.00	3769891.69
8.00536	468355.00	3769891.69	8.78720	468380.00	3769891.69
6.73337	468405.00	3769891.69	7.32038	468430.00	3769891.69
9.28690	468330.00	3769916.69	10.26150	468355.00	3769916.69
7.74545	468380.00	3769916.69	8.46277	468405.00	3769916.69
10.74514	468430.00	3769916.69	7.11699	468330.00	3769941.69
8.87140	468355.00	3769941.69	9.73167	468380.00	3769941.69
7.46076	468405.00	3769941.69	8.12034	468430.00	3769941.69
10.07050	468330.00	3769966.69	11.09491	468355.00	3769966.69
8.42718	468380.00	3769966.69	9.19539	468405.00	3769966.69
11.29311	468430.00	3769966.69	7.74949	468330.00	3769991.69
9.41978	468355.00	3769991.69	10.28694	468380.00	3769991.69
10.39437	468330.00	3770016.69	11.36624	468355.00	3770016.69
11.27950	468380.00	3770016.69	9.53662	468330.00	3770041.69
9.56260	468355.00	3770041.69	10.37740	468380.00	3770041.69
10.22860	468330.00	3770066.69	11.03862	468355.00	3770066.69
10.67902	468380.00	3770066.69	9.48878	468330.00	3770091.69
9.31309	468355.00	3770091.69	9.96761	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB10 ***
 INCLUDING SOURCE(S): FWYWB10 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
9.15711	468330.00	3769866.69	10.14302	468355.00	3769866.69
7.56564	468380.00	3769866.69	8.30457	468405.00	3769866.69
10.86076	468430.00	3769866.69	6.93179	468330.00	3769891.69
8.86763	468355.00	3769891.69	9.78629	468380.00	3769891.69
7.38913	468405.00	3769891.69	8.06984	468430.00	3769891.69
10.34826	468330.00	3769916.69	11.49864	468355.00	3769916.69
8.54386	468380.00	3769916.69	9.38033	468405.00	3769916.69
12.01869	468430.00	3769916.69	7.81588	468330.00	3769941.69
9.82479	468355.00	3769941.69	10.82999	468380.00	3769941.69
8.19108	468405.00	3769941.69	8.95258	468430.00	3769941.69
11.17567	468330.00	3769966.69	12.36567	468355.00	3769966.69
9.27498	468380.00	3769966.69	10.16125	468405.00	3769966.69
12.52202	468430.00	3769966.69	8.49688	468330.00	3769991.69
10.37348	468355.00	3769991.69	11.36801	468380.00	3769991.69
11.42272	468330.00	3770016.69	12.51831	468355.00	3770016.69
12.32588	468380.00	3770016.69	10.45463	468330.00	3770041.69
10.42406	468355.00	3770041.69	11.32816	468380.00	3770041.69
11.08319	468330.00	3770066.69	11.95983	468355.00	3770066.69
11.46410	468380.00	3770066.69	10.27649	468330.00	3770091.69
10.01491	468355.00	3770091.69	10.71411	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB11 ***
 INCLUDING SOURCE(S): FWYWB11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
10.24445	468330.00	3769866.69	11.42331	468355.00	3769866.69
8.37291	468380.00	3769866.69	9.23748	468405.00	3769866.69
12.26071	468430.00	3769866.69	7.63470	468330.00	3769891.69
9.88501	468355.00	3769891.69	10.97454	468380.00	3769891.69
8.15221	468405.00	3769891.69	8.94832	468430.00	3769891.69
11.60943	468330.00	3769916.69	12.97927	468355.00	3769916.69
9.47807	468380.00	3769916.69	10.46194	468405.00	3769916.69
13.53065	468430.00	3769916.69	8.62811	468330.00	3769941.69
10.94278	468355.00	3769941.69	12.12668	468380.00	3769941.69
9.03694	468405.00	3769941.69	9.92226	468430.00	3769941.69
12.46795	468330.00	3769966.69	13.85671	468355.00	3769966.69
10.25628	468380.00	3769966.69	11.28486	468405.00	3769966.69
13.94213	468430.00	3769966.69	9.35772	468330.00	3769991.69
11.47129	468355.00	3769991.69	12.61628	468380.00	3769991.69
12.58979	468330.00	3770016.69	13.82157	468355.00	3770016.69
13.48058	468380.00	3770016.69	11.49765	468330.00	3770041.69
11.38605	468355.00	3770041.69	12.38478	468380.00	3770041.69
12.01088	468330.00	3770066.69	12.94871	468355.00	3770066.69
12.27986	468380.00	3770066.69	11.13799	468330.00	3770091.69
10.76459	468355.00	3770091.69	11.50305	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB12 ***
 INCLUDING SOURCE(S): FWYWB12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
11.47155	468330.00	3769866.69	12.88438	468355.00	3769866.69
9.26281	468380.00	3769866.69	10.27793	468405.00	3769866.69
13.84831	468430.00	3769866.69	8.40257	468330.00	3769891.69
11.01602	468355.00	3769891.69	12.30815	468380.00	3769891.69
8.98648	468405.00	3769891.69	9.91538	468430.00	3769891.69
13.01297	468330.00	3769916.69	14.64349	468355.00	3769916.69
10.50368	468380.00	3769916.69	11.65717	468405.00	3769916.69
15.21030	468430.00	3769916.69	9.51437	468330.00	3769941.69
12.16889	468355.00	3769941.69	13.55622	468380.00	3769941.69
9.95533	468405.00	3769941.69	10.98032	468430.00	3769941.69
13.87291	468330.00	3769966.69	15.48522	468355.00	3769966.69
11.31691	468380.00	3769966.69	12.50310	468405.00	3769966.69
15.45904	468430.00	3769966.69	10.28503	468330.00	3769991.69
12.64352	468355.00	3769991.69	13.94864	468380.00	3769991.69
13.81054	468330.00	3770016.69	15.18108	468355.00	3770016.69
14.64971	468380.00	3770016.69	12.59023	468330.00	3770041.69
12.37334	468355.00	3770041.69	13.46379	468380.00	3770041.69
12.92952	468330.00	3770066.69	13.91193	468355.00	3770066.69
13.03772	468380.00	3770066.69	12.00152	468330.00	3770091.69
11.49425	468355.00	3770091.69	12.25501	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB13 ***
 INCLUDING SOURCE(S): FWYWB13 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
12.93663	468330.00	3769866.69	14.64898	468355.00	3769866.69
10.30472	468380.00	3769866.69	11.50747	468405.00	3769866.69
15.76095	468430.00	3769866.69	9.29416	468330.00	3769891.69
12.35143	468355.00	3769891.69	13.89789	468380.00	3769891.69
9.95531	468405.00	3769891.69	11.04727	468430.00	3769891.69
14.67564	468330.00	3769916.69	16.63226	468355.00	3769916.69
11.69980	468380.00	3769916.69	13.06168	468405.00	3769916.69
17.19047	468430.00	3769916.69	10.54073	468330.00	3769941.69
13.59724	468355.00	3769941.69	15.23152	468380.00	3769941.69
11.01291	468405.00	3769941.69	12.20570	468430.00	3769941.69
15.49441	468330.00	3769966.69	17.36911	468355.00	3769966.69
12.53270	468380.00	3769966.69	13.90467	468405.00	3769966.69
17.17193	468430.00	3769966.69	11.34383	468330.00	3769991.69
13.97049	468355.00	3769991.69	15.45638	468380.00	3769991.69
15.15908	468330.00	3770016.69	16.67149	468355.00	3770016.69
15.88639	468380.00	3770016.69	13.80266	468330.00	3770041.69
13.44317	468355.00	3770041.69	14.62171	468380.00	3770041.69
13.88174	468330.00	3770066.69	14.88775	468355.00	3770066.69
13.76570	468380.00	3770066.69	12.91113	468330.00	3770091.69
12.23734	468355.00	3770091.69	13.00250	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB14 ***
 INCLUDING SOURCE(S): FWYWB14 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
14.69558	468330.00	3769866.69	16.79553	468355.00	3769866.69
11.52691	468380.00	3769866.69	12.96582	468405.00	3769866.69
18.07470	468430.00	3769866.69	10.33009	468330.00	3769891.69
13.93124	468355.00	3769891.69	15.79865	468380.00	3769891.69
11.08055	468405.00	3769891.69	12.37306	468430.00	3769891.69
16.64488	468330.00	3769916.69	19.01008	468355.00	3769916.69
13.09394	468380.00	3769916.69	14.71146	468405.00	3769916.69
19.51641	468430.00	3769916.69	11.72831	468330.00	3769941.69
15.25643	468355.00	3769941.69	17.18811	468380.00	3769941.69
12.22778	468405.00	3769941.69	13.62118	468430.00	3769941.69
17.35163	468330.00	3769966.69	19.52880	468355.00	3769966.69
13.91914	468380.00	3769966.69	15.50728	468405.00	3769966.69
19.07576	468430.00	3769966.69	12.54729	468330.00	3769991.69
15.45731	468355.00	3769991.69	17.14079	468380.00	3769991.69
16.62148	468330.00	3770016.69	18.26827	468355.00	3770016.69
17.15293	468380.00	3770016.69	15.12768	468330.00	3770041.69
14.57872	468355.00	3770041.69	15.83323	468380.00	3770041.69
14.83513	468330.00	3770066.69	15.83223	468355.00	3770066.69
14.42089	468380.00	3770066.69	13.84364	468330.00	3770091.69
12.96744	468355.00	3770091.69	13.71089	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB15 ***
 INCLUDING SOURCE(S): FWYWB15 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
16.89095	468330.00	3769866.69	19.51167	468355.00	3769866.69
13.01576	468380.00	3769866.69	14.76306	468405.00	3769866.69
20.95605	468430.00	3769866.69	11.57974	468330.00	3769891.69
15.85780	468355.00	3769891.69	18.13991	468380.00	3769891.69
12.42900	468405.00	3769891.69	13.97450	468430.00	3769891.69
19.02190	468330.00	3769916.69	21.90052	468355.00	3769916.69
14.75609	468380.00	3769916.69	16.69054	468405.00	3769916.69
22.25450	468430.00	3769916.69	13.13578	468330.00	3769941.69
17.20409	468355.00	3769941.69	19.48882	468380.00	3769941.69
13.64546	468405.00	3769941.69	15.27833	468430.00	3769941.69
19.46355	468330.00	3769966.69	21.96875	468355.00	3769966.69
15.50502	468380.00	3769966.69	17.33713	468405.00	3769966.69
21.11964	468430.00	3769966.69	13.92422	468330.00	3769991.69
17.09830	468355.00	3769991.69	18.97875	468380.00	3769991.69
18.14049	468330.00	3770016.69	19.88050	468355.00	3770016.69
18.33568	468380.00	3770016.69	16.53131	468330.00	3770041.69
15.72457	468355.00	3770041.69	17.01780	468380.00	3770041.69
15.69737	468330.00	3770066.69	16.62564	468355.00	3770066.69
14.89058	468380.00	3770066.69	14.73005	468330.00	3770091.69
13.60968	468355.00	3770091.69	14.28664	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB16 ***
 INCLUDING SOURCE(S): FWYWB16 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
19.60105	468330.00	3769866.69	22.91926	468355.00	3769866.69
14.80391	468380.00	3769866.69	16.94974	468405.00	3769866.69
24.52022	468430.00	3769866.69	13.06383	468330.00	3769891.69
18.18367	468355.00	3769891.69	20.99959	468380.00	3769891.69
14.02404	468405.00	3769891.69	15.88697	468430.00	3769891.69
21.87077	468330.00	3769916.69	25.39024	468355.00	3769916.69
16.71909	468380.00	3769916.69	19.04518	468405.00	3769916.69
25.44981	468430.00	3769916.69	14.78597	468330.00	3769941.69
19.47329	468355.00	3769941.69	22.17415	468380.00	3769941.69
15.28520	468405.00	3769941.69	17.20286	468430.00	3769941.69
21.84442	468330.00	3769966.69	24.69269	468355.00	3769966.69
17.30623	468380.00	3769966.69	19.41102	468405.00	3769966.69
23.27775	468430.00	3769966.69	15.48813	468330.00	3769991.69
18.89504	468355.00	3769991.69	20.96261	468380.00	3769991.69
19.69509	468330.00	3770016.69	21.46907	468355.00	3770016.69
19.39958	468380.00	3770016.69	18.00444	468330.00	3770041.69
16.86667	468355.00	3770041.69	18.15158	468380.00	3770041.69
16.45170	468330.00	3770066.69	17.24975	468355.00	3770066.69
15.17846	468380.00	3770066.69	15.55767	468330.00	3770091.69
14.15823	468355.00	3770091.69	14.72629	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB17 ***
 INCLUDING SOURCE(S): FWYWB17 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
23.05380	468330.00	3769866.69	27.33952	468355.00	3769866.69
17.01691	468380.00	3769866.69	19.69269	468405.00	3769866.69
29.06193	468430.00	3769866.69	14.87839	468330.00	3769891.69
21.07362	468355.00	3769891.69	24.59659	468380.00	3769891.69
15.96337	468405.00	3769891.69	18.23690	468430.00	3769891.69
25.37146	468330.00	3769916.69	29.70047	468355.00	3769916.69
19.09695	468380.00	3769916.69	21.91877	468405.00	3769916.69
29.22647	468430.00	3769916.69	16.76992	468330.00	3769941.69
22.17078	468355.00	3769941.69	25.36448	468380.00	3769941.69
17.22402	468405.00	3769941.69	19.48614	468430.00	3769941.69
24.55248	468330.00	3769966.69	27.73470	468355.00	3769966.69
19.38598	468380.00	3769966.69	21.79364	468405.00	3769966.69
25.52178	468430.00	3769966.69	17.29728	468330.00	3769991.69
20.87359	468355.00	3769991.69	23.09983	468380.00	3769991.69
21.25883	468330.00	3770016.69	22.97369	468355.00	3770016.69
20.28229	468380.00	3770016.69	19.54429	468330.00	3770041.69
17.98416	468355.00	3770041.69	19.19377	468380.00	3770041.69
17.05986	468330.00	3770066.69	17.65936	468355.00	3770066.69
15.26202	468380.00	3770066.69	16.29905	468330.00	3770091.69
14.58852	468355.00	3770091.69	15.00355	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB18 ***
 INCLUDING SOURCE(S): FWYWB18 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
27.49141	468330.00	3769866.69	33.13777	468355.00	3769866.69
19.76584	468380.00	3769866.69	23.15488	468405.00	3769866.69
34.85451	468430.00	3769866.69	17.10118	468330.00	3769891.69
24.66746	468355.00	3769891.69	29.12633	468380.00	3769891.69
18.31974	468405.00	3769891.69	21.12399	468430.00	3769891.69
29.63467	468330.00	3769916.69	34.95698	468355.00	3769916.69
21.96257	468380.00	3769916.69	25.40295	468405.00	3769916.69
33.56021	468430.00	3769916.69	19.14450	468330.00	3769941.69
25.32842	468355.00	3769941.69	29.07585	468380.00	3769941.69
19.49468	468405.00	3769941.69	22.16329	468430.00	3769941.69
27.52234	468330.00	3769966.69	30.96181	468355.00	3769966.69
21.73934	468380.00	3769966.69	24.45901	468405.00	3769966.69
27.67212	468430.00	3769966.69	19.35697	468330.00	3769991.69
22.96489	468355.00	3769991.69	25.27517	468380.00	3769991.69
22.70344	468330.00	3770016.69	24.22466	468355.00	3770016.69
20.85575	468380.00	3770016.69	21.05976	468330.00	3770041.69
18.98527	468355.00	3770041.69	20.03107	468380.00	3770041.69
17.43805	468330.00	3770066.69	17.77633	468355.00	3770066.69
15.10665	468380.00	3770066.69	16.87664	468330.00	3770091.69
14.84429	468355.00	3770091.69	15.06709	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB19 ***
 INCLUDING SOURCE(S): FWYWB19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
33.30023	468330.00	3769866.69	40.90031	468355.00	3769866.69
23.23000	468380.00	3769866.69	27.59647	468405.00	3769866.69
42.29454	468430.00	3769866.69	19.85898	468330.00	3769891.69
29.18070	468355.00	3769891.69	34.88305	468380.00	3769891.69
21.20986	468405.00	3769891.69	24.70582	468430.00	3769891.69
34.80726	468330.00	3769916.69	41.29460	468355.00	3769916.69
25.42702	468380.00	3769916.69	29.63057	468405.00	3769916.69
38.36114	468430.00	3769916.69	21.99944	468330.00	3769941.69
28.98457	468355.00	3769941.69	33.30727	468380.00	3769941.69
22.14905	468405.00	3769941.69	25.28552	468430.00	3769941.69
30.64768	468330.00	3769966.69	34.16270	468355.00	3769966.69
24.35996	468380.00	3769966.69	27.36503	468405.00	3769966.69
29.50288	468430.00	3769966.69	21.67906	468330.00	3769991.69
25.07789	468355.00	3769991.69	27.33790	468380.00	3769991.69
23.88581	468330.00	3770016.69	25.04839	468355.00	3770016.69
21.02052	468380.00	3770016.69	22.44558	468330.00	3770041.69
19.77701	468355.00	3770041.69	20.55809	468380.00	3770041.69
17.52673	468330.00	3770066.69	17.56598	468355.00	3770066.69
14.72070	468380.00	3770066.69	17.22394	468330.00	3770091.69
14.88837	468355.00	3770091.69	14.89654	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB20 ***
 INCLUDING SOURCE(S): FWYWB20 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
41.06195	468330.00	3769866.69	51.52264	468355.00	3769866.69
27.67003	468380.00	3769866.69	33.40243	468405.00	3769866.69
51.86402	468430.00	3769866.69	23.33335	468330.00	3769891.69
34.90288	468355.00	3769891.69	42.25084	468380.00	3769891.69
24.79246	468405.00	3769891.69	29.19633	468430.00	3769891.69
41.01093	468330.00	3769916.69	48.73665	468355.00	3769916.69
29.62109	468380.00	3769916.69	34.74309	468405.00	3769916.69
43.35490	468430.00	3769916.69	25.44548	468330.00	3769941.69
33.13446	468355.00	3769941.69	37.96289	468380.00	3769941.69
25.23757	468405.00	3769941.69	28.88912	468430.00	3769941.69
33.71994	468330.00	3769966.69	36.98339	468355.00	3769966.69
27.20535	468380.00	3769966.69	30.40549	468405.00	3769966.69
30.73178	468430.00	3769966.69	24.25704	468330.00	3769991.69
27.06591	468355.00	3769991.69	29.07092	468380.00	3769991.69
24.64290	468330.00	3770016.69	25.28531	468355.00	3770016.69
20.72551	468380.00	3770016.69	23.56534	468330.00	3770041.69
20.26099	468355.00	3770041.69	20.68445	468380.00	3770041.69
17.29774	468330.00	3770066.69	17.04605	468355.00	3770066.69
14.15268	468380.00	3770066.69	17.28719	468330.00	3770091.69
14.70456	468355.00	3770091.69	14.50421	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB21 ***
 INCLUDING SOURCE(S): FWYWB21 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
51.63820	468330.00	3769866.69	66.33030	468355.00	3769866.69
33.45857	468380.00	3769866.69	41.13459	468405.00	3769866.69
63.99099	468430.00	3769866.69	27.77819	468330.00	3769891.69
42.19084	468355.00	3769891.69	51.66403	468380.00	3769891.69
29.27196	468405.00	3769891.69	34.86783	468430.00	3769891.69
48.22818	468330.00	3769916.69	56.97165	468355.00	3769916.69
34.66886	468380.00	3769916.69	40.83584	468405.00	3769916.69
47.94797	468430.00	3769916.69	29.60188	468330.00	3769941.69
37.66311	468355.00	3769941.69	42.74748	468380.00	3769941.69
28.78549	468405.00	3769941.69	32.95443	468430.00	3769941.69
36.38129	468330.00	3769966.69	38.91584	468355.00	3769966.69
30.15941	468380.00	3769966.69	33.36232	468405.00	3769966.69
31.07416	468430.00	3769966.69	27.03975	468330.00	3769991.69
28.70968	468355.00	3769991.69	30.19648	468380.00	3769991.69
24.82151	468330.00	3770016.69	24.84796	468355.00	3770016.69
20.00109	468380.00	3770016.69	24.25820	468330.00	3770041.69
20.34976	468355.00	3770041.69	20.36331	468380.00	3770041.69
16.77023	468330.00	3770066.69	16.29345	468355.00	3770066.69
13.48310	468380.00	3770066.69	17.04007	468330.00	3770091.69
14.30573	468355.00	3770091.69	13.93812	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB22 ***
 INCLUDING SOURCE(S): FWYWB22 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
66.26988	468330.00	3769866.69	87.12813	468355.00	3769866.69
41.13004	468380.00	3769866.69	51.60788	468405.00	3769866.69
78.62455	468430.00	3769866.69	33.55174	468330.00	3769891.69
51.42577	468355.00	3769891.69	63.45901	468380.00	3769891.69
34.90274	468405.00	3769891.69	42.04411	468430.00	3769891.69
56.09142	468330.00	3769916.69	64.99764	468355.00	3769916.69
40.63717	468380.00	3769916.69	47.84986	468405.00	3769916.69
51.16591	468430.00	3769916.69	34.57365	468330.00	3769941.69
42.25367	468355.00	3769941.69	47.05403	468380.00	3769941.69
32.75747	468405.00	3769941.69	37.34666	468430.00	3769941.69
38.13285	468330.00	3769966.69	39.41663	468355.00	3769966.69
32.99474	468380.00	3769966.69	35.87311	468405.00	3769966.69
30.37648	468430.00	3769966.69	29.90113	468330.00	3769991.69
29.73556	468355.00	3769991.69	30.44315	468380.00	3769991.69
24.34336	468330.00	3770016.69	23.79619	468355.00	3770016.69
18.97731	468380.00	3770016.69	24.37729	468330.00	3770041.69
20.00090	468355.00	3770041.69	19.62860	468380.00	3770041.69
16.02094	468330.00	3770066.69	15.43243	468355.00	3770066.69
12.80417	468380.00	3770066.69	16.50354	468330.00	3770091.69
13.73984	468355.00	3770091.69	13.27684	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB23 ***
 INCLUDING SOURCE(S): FWYWB23 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
86.46721	468330.00	3769866.69	115.52402	468355.00	3769866.69
51.39417	468380.00	3769866.69	65.89338	468405.00	3769866.69
94.07543	468430.00	3769866.69	41.12547	468330.00	3769891.69
62.78610	468355.00	3769891.69	77.34506	468380.00	3769891.69
41.94311	468405.00	3769891.69	50.99995	468430.00	3769891.69
63.48253	468330.00	3769916.69	70.70522	468355.00	3769916.69
47.38542	468380.00	3769916.69	55.31151	468405.00	3769916.69
51.82930	468430.00	3769916.69	40.36815	468330.00	3769941.69
46.24760	468355.00	3769941.69	49.87968	468380.00	3769941.69
36.97371	468405.00	3769941.69	41.69674	468430.00	3769941.69
38.43124	468330.00	3769966.69	38.17377	468355.00	3769966.69
35.32164	468380.00	3769966.69	37.42046	468405.00	3769966.69
28.75242	468430.00	3769966.69	32.58476	468330.00	3769991.69
29.86605	468355.00	3769991.69	29.65705	468380.00	3769991.69
23.26285	468330.00	3770016.69	22.35278	468355.00	3770016.69
17.84603	468380.00	3770016.69	23.84006	468330.00	3770041.69
19.24306	468355.00	3770041.69	18.60213	468380.00	3770041.69
15.16570	468330.00	3770066.69	14.58970	468355.00	3770066.69
12.18686	468380.00	3770066.69	15.74871	468330.00	3770091.69
13.08021	468355.00	3770091.69	12.60541	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB24 ***
 INCLUDING SOURCE(S): FWYWB24 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
114.24226	468330.00	3769866.69	151.52392	468355.00	3769866.69
65.61078	468380.00	3769866.69	85.84138	468405.00	3769866.69
106.50143	468430.00	3769866.69	51.44575	468330.00	3769891.69
76.37370	468355.00	3769891.69	92.20550	468380.00	3769891.69
50.89933	468405.00	3769891.69	62.21259	468430.00	3769891.69
68.88208	468330.00	3769916.69	71.99205	468355.00	3769916.69
54.72651	468380.00	3769916.69	62.50321	468405.00	3769916.69
49.72084	468430.00	3769916.69	47.05869	468330.00	3769941.69
48.97718	468355.00	3769941.69	50.48318	468380.00	3769941.69
41.25789	468405.00	3769941.69	45.59840	468430.00	3769941.69
37.24402	468330.00	3769966.69	35.71401	468355.00	3769966.69
36.82825	468380.00	3769966.69	37.71000	468405.00	3769966.69
26.77405	468430.00	3769966.69	34.86647	468330.00	3769991.69
29.11730	468355.00	3769991.69	28.11907	468380.00	3769991.69
21.89598	468330.00	3770016.69	20.91562	468355.00	3770016.69
16.83671	468380.00	3770016.69	22.81145	468330.00	3770041.69
18.26515	468355.00	3770041.69	17.52851	468380.00	3770041.69
14.36475	468330.00	3770066.69	13.88303	468355.00	3770066.69
11.68466	468380.00	3770066.69	14.93210	468330.00	3770091.69
12.43802	468355.00	3770091.69	12.01805	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB25 ***
 INCLUDING SOURCE(S): FWYWB25 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
147.79473	468330.00	3769866.69	182.93718	468355.00	3769866.69
84.90784	468380.00	3769866.69	112.33734	468405.00	3769866.69
108.07637	468430.00	3769866.69	65.39572	468330.00	3769891.69
90.20625	468355.00	3769891.69	103.19771	468380.00	3769891.69
61.77976	468405.00	3769891.69	75.12996	468430.00	3769891.69
69.60560	468330.00	3769916.69	67.43315	468355.00	3769916.69
61.44502	468380.00	3769916.69	67.31839	468405.00	3769916.69
45.52848	468430.00	3769916.69	54.06483	468330.00	3769941.69
49.31223	468355.00	3769941.69	48.23417	468380.00	3769941.69
44.90138	468405.00	3769941.69	48.03384	468430.00	3769941.69
34.78306	468330.00	3769966.69	32.80675	468355.00	3769966.69
36.96804	468380.00	3769966.69	36.42797	468405.00	3769966.69
24.87952	468430.00	3769966.69	36.20789	468330.00	3769991.69
27.55944	468355.00	3769991.69	26.17022	468380.00	3769991.69
20.49027	468330.00	3770016.69	19.67293	468355.00	3770016.69
16.00240	468380.00	3770016.69	21.45577	468330.00	3770041.69
17.20894	468355.00	3770041.69	16.54228	468380.00	3770041.69
13.67316	468330.00	3770066.69	13.30538	468355.00	3770066.69
11.27063	468380.00	3770066.69	14.14505	468330.00	3770091.69
11.86046	468355.00	3770091.69	11.52586	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB26 ***
 INCLUDING SOURCE(S): FWYWB26 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
176.23227	468330.00	3769866.69	183.53824	468355.00	3769866.69
110.56522	468380.00	3769866.69	144.06219	468405.00	3769866.69
97.42263	468430.00	3769866.69	84.46618	468330.00	3769891.69
100.36959	468355.00	3769891.69	104.21649	468380.00	3769891.69
74.40947	468405.00	3769891.69	88.32085	468430.00	3769891.69
65.21678	468330.00	3769916.69	60.26170	468355.00	3769916.69
65.97611	468380.00	3769916.69	67.86511	468405.00	3769916.69
41.38607	468430.00	3769916.69	60.53994	468330.00	3769941.69
47.11695	468355.00	3769941.69	44.27813	468380.00	3769941.69
47.20742	468405.00	3769941.69	48.29105	468430.00	3769941.69
32.04966	468330.00	3769966.69	30.39248	468355.00	3769966.69
35.70954	468380.00	3769966.69	34.07046	468405.00	3769966.69
23.40168	468430.00	3769966.69	36.31026	468330.00	3769991.69
25.70214	468355.00	3769991.69	24.38889	468380.00	3769991.69
19.31943	468330.00	3770016.69	18.70763	468355.00	3770016.69
15.33995	468380.00	3770016.69	20.12311	468330.00	3770041.69
16.27301	468355.00	3770041.69	15.75199	468380.00	3770041.69
13.12342	468330.00	3770066.69	12.83212	468355.00	3770066.69
10.91423	468380.00	3770066.69	13.48541	468330.00	3770091.69
11.38891	468355.00	3770091.69	11.13060	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB27 ***
 INCLUDING SOURCE(S): FWYWB27 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
173.60057	468330.00	3769866.69	151.90117	468355.00	3769866.69
139.95724	468380.00	3769866.69	168.84087	468405.00	3769866.69
84.32039	468430.00	3769866.69	109.08258	468330.00	3769891.69
100.45381	468355.00	3769891.69	93.62858	468380.00	3769891.69
86.78548	468405.00	3769891.69	97.30771	468430.00	3769891.69
58.31167	468330.00	3769916.69	54.14841	468355.00	3769916.69
66.11807	468380.00	3769916.69	63.36312	468405.00	3769916.69
38.13569	468430.00	3769916.69	64.59439	468330.00	3769941.69
43.21708	468355.00	3769941.69	40.29818	468380.00	3769941.69
47.25743	468405.00	3769941.69	46.00301	468430.00	3769941.69
29.72233	468330.00	3769966.69	28.47769	468355.00	3769966.69
33.36049	468380.00	3769966.69	31.39998	468405.00	3769966.69
22.17988	468430.00	3769966.69	34.98735	468330.00	3769991.69
23.96415	468355.00	3769991.69	22.95782	468380.00	3769991.69
18.38335	468330.00	3770016.69	17.87140	468355.00	3770016.69
14.73325	468380.00	3770016.69	18.98595	468330.00	3770041.69
15.50488	468355.00	3770041.69	15.10690	468380.00	3770041.69
12.66046	468330.00	3770066.69	12.37753	468355.00	3770066.69
10.56831	468380.00	3770066.69	12.94808	468330.00	3770091.69
10.99732	468355.00	3770091.69	10.78148	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB28 ***
 INCLUDING SOURCE(S): FWYWB28 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
143.97616	468330.00	3769866.69	123.66423	468355.00	3769866.69
160.50796	468380.00	3769866.69	163.81745	468405.00	3769866.69
73.27794	468430.00	3769866.69	135.81274	468330.00	3769891.69
89.66902	468355.00	3769891.69	80.96571	468380.00	3769891.69
94.41928	468405.00	3769891.69	96.20234	468430.00	3769891.69
52.35428	468330.00	3769916.69	48.74638	468355.00	3769916.69
61.36249	468380.00	3769916.69	56.51114	468405.00	3769916.69
35.08969	468430.00	3769916.69	64.19672	468330.00	3769941.69
39.28294	468355.00	3769941.69	37.10097	468380.00	3769941.69
44.79783	468405.00	3769941.69	42.07665	468430.00	3769941.69
27.82476	468330.00	3769966.69	26.59578	468355.00	3769966.69
30.70187	468380.00	3769966.69	29.09206	468405.00	3769966.69
20.93704	468430.00	3769966.69	32.59693	468330.00	3769991.69
22.53794	468355.00	3769991.69	21.74013	468380.00	3769991.69
17.55118	468330.00	3770016.69	17.00441	468355.00	3770016.69
14.10226	468380.00	3770016.69	18.05421	468330.00	3770041.69
14.86281	468355.00	3770041.69	14.51137	468380.00	3770041.69
12.21662	468330.00	3770066.69	11.90676	468355.00	3770066.69
10.20616	468380.00	3770066.69	12.48606	468330.00	3770091.69
10.65125	468355.00	3770091.69	10.44333	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB29 ***
 INCLUDING SOURCE(S): FWYWB29 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
117.63968	468330.00	3769866.69	93.59528	468355.00	3769866.69
155.35179	468380.00	3769866.69	136.63689	468405.00	3769866.69
61.33252	468430.00	3769866.69	154.77566	468330.00	3769891.69
78.31916	468355.00	3769891.69	70.97842	468380.00	3769891.69
93.31878	468405.00	3769891.69	86.36237	468430.00	3769891.69
47.48239	468330.00	3769916.69	42.94006	468355.00	3769916.69
55.08368	468380.00	3769916.69	51.11919	468405.00	3769916.69
31.80646	468430.00	3769916.69	59.75505	468330.00	3769941.69
36.36648	468355.00	3769941.69	34.32580	468380.00	3769941.69
41.14341	468405.00	3769941.69	38.46148	468430.00	3769941.69
26.09770	468330.00	3769966.69	24.56824	468355.00	3769966.69
28.57443	468380.00	3769966.69	27.35078	468405.00	3769966.69
19.60077	468430.00	3769966.69	30.12291	468330.00	3769991.69
21.41537	468355.00	3769991.69	20.59335	468380.00	3769991.69
16.74426	468330.00	3770016.69	16.04722	468355.00	3770016.69
13.39482	468380.00	3770016.69	17.28667	468330.00	3770041.69
14.30871	468355.00	3770041.69	13.90499	468380.00	3770041.69
11.75294	468330.00	3770066.69	11.37597	468355.00	3770066.69
9.79849	468380.00	3770066.69	12.05811	468330.00	3770091.69
10.31453	468355.00	3770091.69	10.08345	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB30 ***
 INCLUDING SOURCE(S): FWYWB30 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
90.07316	468330.00	3769866.69	67.83885	468355.00	3769866.69
129.89271	468380.00	3769866.69	112.45836	468405.00	3769866.69
49.16692	468430.00	3769866.69	147.69589	468330.00	3769891.69
68.54042	468355.00	3769891.69	59.49164	468380.00	3769891.69
83.38996	468405.00	3769891.69	75.46443	468430.00	3769891.69
41.87164	468330.00	3769916.69	36.57186	468355.00	3769916.69
49.80392	468380.00	3769916.69	46.33119	468405.00	3769916.69
28.10645	468430.00	3769916.69	53.57011	468330.00	3769941.69
33.62290	468355.00	3769941.69	31.12815	468380.00	3769941.69
37.59041	468405.00	3769941.69	35.58542	468430.00	3769941.69
24.11164	468330.00	3769966.69	22.25254	468355.00	3769966.69
26.84730	468380.00	3769966.69	25.63591	468405.00	3769966.69
18.06494	468430.00	3769966.69	28.02547	468330.00	3769991.69
20.27285	468355.00	3769991.69	19.27872	468380.00	3769991.69
15.80973	468330.00	3770016.69	14.96336	468355.00	3770016.69
12.60968	468380.00	3770016.69	16.48754	468330.00	3770041.69
13.71256	468355.00	3770041.69	13.21784	468380.00	3770041.69
11.23624	468330.00	3770066.69	10.79251	468355.00	3770066.69
9.35365	468380.00	3770066.69	11.60138	468330.00	3770091.69
9.96037	468355.00	3770091.69	9.68824	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB31 ***
 INCLUDING SOURCE(S): FWYWB31 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
66.15182	468330.00	3769866.69	49.60397	468355.00	3769866.69
107.85431	468380.00	3769866.69	87.22094	468405.00	3769866.69
38.90501	468430.00	3769866.69	123.63863	468330.00	3769891.69
57.74301	468355.00	3769891.69	48.01848	468380.00	3769891.69
72.79472	468405.00	3769891.69	66.23891	468430.00	3769891.69
35.78523	468330.00	3769916.69	30.60606	468355.00	3769916.69
45.09666	468380.00	3769916.69	40.85607	468405.00	3769916.69
24.43760	468430.00	3769916.69	48.39789	468330.00	3769941.69
30.47962	468355.00	3769941.69	27.56876	468380.00	3769941.69
34.75136	468405.00	3769941.69	32.87081	468430.00	3769941.69
21.87254	468330.00	3769966.69	19.87338	468355.00	3769966.69
25.14256	468380.00	3769966.69	23.67304	468405.00	3769966.69
16.45013	468430.00	3769966.69	26.31008	468330.00	3769991.69
18.96821	468355.00	3769991.69	17.78769	468380.00	3769991.69
14.76628	468330.00	3770016.69	13.82306	468355.00	3770016.69
11.78050	468380.00	3770016.69	15.57771	468330.00	3770041.69
13.04988	468355.00	3770041.69	12.46209	468380.00	3770041.69
10.67386	468330.00	3770066.69	10.17218	468355.00	3770066.69
8.87870	468380.00	3770066.69	11.10480	468330.00	3770091.69
9.58017	468355.00	3770091.69	9.25887	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB32 ***
 INCLUDING SOURCE(S): FWYWB32 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
48.60758	468330.00	3769866.69	37.16344	468355.00	3769866.69
84.32096	468380.00	3769866.69	64.46607	468405.00	3769866.69
30.86662	468430.00	3769866.69	103.24698	468330.00	3769891.69
46.80578	468355.00	3769891.69	38.12262	468380.00	3769891.69
64.04052	468405.00	3769891.69	56.06264	468430.00	3769891.69
30.05520	468330.00	3769916.69	25.46387	468355.00	3769916.69
39.84959	468380.00	3769916.69	35.01693	468405.00	3769916.69
21.06336	468430.00	3769916.69	43.88078	468330.00	3769941.69
27.04262	468355.00	3769941.69	24.02972	468380.00	3769941.69
32.12650	468405.00	3769941.69	29.83512	468430.00	3769941.69
19.56875	468330.00	3769966.69	17.58667	468355.00	3769966.69
23.23613	468380.00	3769966.69	21.49989	468405.00	3769966.69
14.84868	468430.00	3769966.69	24.65260	468330.00	3769991.69
17.51525	468355.00	3769991.69	16.21892	468380.00	3769991.69
13.64865	468330.00	3770016.69	12.66316	468355.00	3770016.69
10.92200	468380.00	3770016.69	14.56207	468330.00	3770041.69
12.30716	468355.00	3770041.69	11.64214	468380.00	3770041.69
10.05926	468330.00	3770066.69	9.52114	468355.00	3770066.69
8.37497	468380.00	3770066.69	10.54682	468330.00	3770091.69
9.15342	468355.00	3770091.69	8.78729	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB33 ***
 INCLUDING SOURCE(S): FWYWB33 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
36.56197	468330.00	3769866.69	28.67809	468355.00	3769866.69
62.78702	468380.00	3769866.69	47.64317	468405.00	3769866.69
24.79586	468430.00	3769866.69	81.18761	468330.00	3769891.69
37.31557	468355.00	3769891.69	30.34786	468380.00	3769891.69
54.27297	468405.00	3769891.69	45.62227	468430.00	3769891.69
25.05994	468330.00	3769916.69	21.21879	468355.00	3769916.69
34.18860	468380.00	3769916.69	29.44980	468405.00	3769916.69
18.09805	468430.00	3769916.69	38.78161	468330.00	3769941.69
23.58549	468355.00	3769941.69	20.74302	468380.00	3769941.69
29.15068	468405.00	3769941.69	26.47752	468430.00	3769941.69
17.33473	468330.00	3769966.69	15.48386	468355.00	3769966.69
21.10048	468380.00	3769966.69	19.23877	468405.00	3769966.69
13.32609	468430.00	3769966.69	22.77182	468330.00	3769991.69
15.96930	468355.00	3769991.69	14.64992	468380.00	3769991.69
12.51012	468330.00	3770016.69	11.53845	468355.00	3770016.69
10.07271	468380.00	3770016.69	13.46498	468330.00	3770041.69
11.50081	468355.00	3770041.69	10.79772	468380.00	3770041.69
9.41781	468330.00	3770066.69	8.86663	468355.00	3770066.69
7.86175	468380.00	3770066.69	9.94140	468330.00	3770091.69
8.68814	468355.00	3770091.69	8.29008	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB34 ***
 INCLUDING SOURCE(S): FWYWB34 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
28.38407	468330.00	3769866.69	22.81424	468355.00	3769866.69
46.89174	468380.00	3769866.69	36.12014	468405.00	3769866.69
20.28631	468430.00	3769866.69	61.27422	468330.00	3769891.69
29.91122	468355.00	3769891.69	24.51438	468380.00	3769891.69
44.52213	468405.00	3769891.69	36.66725	468430.00	3769891.69
20.98082	468330.00	3769916.69	17.84756	468355.00	3769916.69
28.91078	468380.00	3769916.69	24.67794	468405.00	3769916.69
15.60962	468430.00	3769916.69	33.45446	468330.00	3769941.69
20.43934	468355.00	3769941.69	17.89333	468380.00	3769941.69
25.97246	468405.00	3769941.69	23.18698	468430.00	3769941.69
15.31224	468330.00	3769966.69	13.64290	468355.00	3769966.69
18.94087	468380.00	3769966.69	17.09531	468405.00	3769966.69
11.94991	468430.00	3769966.69	20.74110	468330.00	3769991.69
14.46061	468355.00	3769991.69	13.18388	468380.00	3769991.69
11.42547	468330.00	3770016.69	10.49695	468355.00	3770016.69
9.27130	468380.00	3770016.69	12.37129	468330.00	3770041.69
10.68839	468355.00	3770041.69	9.97828	468380.00	3770041.69
8.78614	468330.00	3770066.69	8.23953	468355.00	3770066.69
7.36382	468380.00	3770066.69	9.32423	468330.00	3770091.69
8.20967	468355.00	3770091.69	7.79453	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB35 ***
 INCLUDING SOURCE(S): FWYWB35 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
22.74346	468330.00	3769866.69	18.66563	468355.00	3769866.69
35.99450	468380.00	3769866.69	28.30160	468405.00	3769866.69
16.94063	468430.00	3769866.69	46.56197	468330.00	3769891.69
24.39762	468355.00	3769891.69	20.21066	468380.00	3769891.69
36.33588	468405.00	3769891.69	29.75116	468430.00	3769891.69
17.78379	468330.00	3769916.69	15.22412	468355.00	3769916.69
24.50156	468380.00	3769916.69	20.85809	468405.00	3769916.69
13.58948	468430.00	3769916.69	28.66227	468330.00	3769941.69
17.78822	468355.00	3769941.69	15.54939	468380.00	3769941.69
23.00193	468405.00	3769941.69	20.29804	468430.00	3769941.69
13.58847	468330.00	3769966.69	12.09668	468355.00	3769966.69
16.98327	468380.00	3769966.69	15.22433	468405.00	3769966.69
10.76396	468430.00	3769966.69	18.80177	468330.00	3769991.69
13.11112	468355.00	3769991.69	11.90207	468380.00	3769991.69
10.45939	468330.00	3770016.69	9.58210	468355.00	3770016.69
8.55738	468380.00	3770016.69	11.37571	468330.00	3770041.69
9.93920	468355.00	3770041.69	9.23827	468380.00	3770041.69
8.20963	468330.00	3770066.69	7.67495	468355.00	3770066.69
6.91181	468380.00	3770066.69	8.74956	468330.00	3770091.69
7.76090	468355.00	3770091.69	7.33847	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB36 ***
 INCLUDING SOURCE(S): FWYWB36 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
18.47644	468330.00	3769866.69	15.45898	468355.00	3769866.69
27.93643	468380.00	3769866.69	22.49368	468405.00	3769866.69
14.24561	468430.00	3769866.69	35.34841	468330.00	3769891.69
19.95743	468355.00	3769891.69	16.76235	468380.00	3769891.69
29.17014	468405.00	3769891.69	24.04439	468430.00	3769891.69
15.06645	468330.00	3769916.69	13.01178	468355.00	3769916.69
20.52674	468380.00	3769916.69	17.54495	468405.00	3769916.69
11.80640	468430.00	3769916.69	24.04183	468330.00	3769941.69
15.34215	468355.00	3769941.69	13.44602	468380.00	3769941.69
19.93993	468405.00	3769941.69	17.51441	468430.00	3769941.69
11.96897	468330.00	3769966.69	10.67420	468355.00	3769966.69
15.00086	468380.00	3769966.69	13.41190	468405.00	3769966.69
9.63328	468430.00	3769966.69	16.70445	468330.00	3769991.69
11.75319	468355.00	3769991.69	10.65204	468380.00	3769991.69
9.48797	468330.00	3770016.69	8.68263	468355.00	3770016.69
7.83709	468380.00	3770016.69	10.34316	468330.00	3770041.69
9.14226	468355.00	3770041.69	8.47489	468380.00	3770041.69
7.60204	468330.00	3770066.69	7.09324	468355.00	3770066.69
6.43765	468380.00	3770066.69	8.12455	468330.00	3770091.69
7.26318	468355.00	3770091.69	6.84893	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB37 ***
 INCLUDING SOURCE(S): FWYWB37 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
15.36569	468330.00	3769866.69	13.06490	468355.00	3769866.69
22.33119	468380.00	3769866.69	18.36165	468405.00	3769866.69
12.17532	468430.00	3769866.69	27.64022	468330.00	3769891.69
16.62817	468355.00	3769891.69	14.14991	468380.00	3769891.69
23.73711	468405.00	3769891.69	19.77616	468430.00	3769891.69
12.92352	468330.00	3769916.69	11.25903	468355.00	3769916.69
17.35376	468380.00	3769916.69	14.92853	468405.00	3769916.69
10.34831	468430.00	3769916.69	20.25951	468330.00	3769941.69
13.31890	468355.00	3769941.69	11.72132	468380.00	3769941.69
17.28947	468405.00	3769941.69	15.17278	468430.00	3769941.69
10.59434	468330.00	3769966.69	9.47541	468355.00	3769966.69
13.26537	468380.00	3769966.69	11.85468	468405.00	3769966.69
8.65457	468430.00	3769966.69	14.81480	468330.00	3769991.69
10.55111	468355.00	3769991.69	9.55994	468380.00	3769991.69
8.61947	468330.00	3770016.69	7.88668	468355.00	3770016.69
7.18846	468380.00	3770016.69	9.40767	468330.00	3770041.69
8.40707	468355.00	3770041.69	7.78014	468380.00	3770041.69
7.04129	468330.00	3770066.69	6.56182	468355.00	3770066.69
5.99949	468380.00	3770066.69	7.53990	468330.00	3770091.69
6.79240	468355.00	3770091.69	6.39197	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB38 ***
 INCLUDING SOURCE(S): FWYWB38 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
12.98887	468330.00	3769866.69	11.19718	468355.00	3769866.69
18.24160	468380.00	3769866.69	15.27580	468405.00	3769866.69
10.52698	468430.00	3769866.69	22.12545	468330.00	3769891.69
14.04591	468355.00	3769891.69	12.09841	468380.00	3769891.69
19.55550	468405.00	3769891.69	16.49344	468430.00	3769891.69
11.18827	468330.00	3769916.69	9.83008	468355.00	3769916.69
14.78259	468380.00	3769916.69	12.81572	468405.00	3769916.69
9.12871	468430.00	3769916.69	17.15360	468330.00	3769941.69
11.61995	468355.00	3769941.69	10.27939	468380.00	3769941.69
14.99685	468405.00	3769941.69	13.18556	468430.00	3769941.69
9.40971	468330.00	3769966.69	8.44663	468355.00	3769966.69
11.73558	468380.00	3769966.69	10.50102	468405.00	3769966.69
7.79413	468430.00	3769966.69	13.11396	468330.00	3769991.69
9.47549	468355.00	3769991.69	8.59310	468380.00	3769991.69
7.83259	468330.00	3770016.69	7.17144	468355.00	3770016.69
6.59457	468380.00	3770016.69	8.55080	468330.00	3770041.69
7.72076	468355.00	3770041.69	7.13856	468380.00	3770041.69
6.51542	468330.00	3770066.69	6.06764	468355.00	3770066.69
5.58680	468380.00	3770066.69	6.98566	468330.00	3770091.69
6.34047	468355.00	3770091.69	5.95803	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB39 ***
 INCLUDING SOURCE(S): FWYWB39 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
11.13590	468330.00	3769866.69	9.71399	468355.00	3769866.69
15.18669	468380.00	3769866.69	12.91900	468405.00	3769866.69
9.19700	468430.00	3769866.69	18.09513	468330.00	3769891.69
12.01745	468355.00	3769891.69	10.46535	468380.00	3769891.69
16.33208	468405.00	3769891.69	13.94486	468430.00	3769891.69
9.77350	468330.00	3769916.69	8.65549	468355.00	3769916.69
12.70350	468380.00	3769916.69	11.10345	468405.00	3769916.69
8.10537	468430.00	3769916.69	14.63197	468330.00	3769941.69
10.19846	468355.00	3769941.69	9.07315	468380.00	3769941.69
13.04875	468405.00	3769941.69	11.51508	468430.00	3769941.69
8.39301	468330.00	3769966.69	7.56479	468355.00	3769966.69
10.40496	468380.00	3769966.69	9.33385	468405.00	3769966.69
7.04097	468430.00	3769966.69	11.61390	468330.00	3769991.69
8.52307	468355.00	3769991.69	7.74320	468380.00	3769991.69
7.12593	468330.00	3770016.69	6.53295	468355.00	3770016.69
6.05504	468380.00	3770016.69	7.77485	468330.00	3770041.69
7.08766	468355.00	3770041.69	6.55175	468380.00	3770041.69
6.02707	468330.00	3770066.69	5.61188	468355.00	3770066.69
5.20128	468380.00	3770066.69	6.46663	468330.00	3770091.69
5.91200	468355.00	3770091.69	5.54999	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB40 ***
 INCLUDING SOURCE(S): FWYWB40 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
9.67590	468330.00	3769866.69	8.52629	468355.00	3769866.69
12.86863	468380.00	3769866.69	11.09508	468405.00	3769866.69
8.11783	468430.00	3769866.69	15.10080	468330.00	3769891.69
10.41334	468355.00	3769891.69	9.15688	468380.00	3769891.69
13.84269	468405.00	3769891.69	11.95476	468430.00	3769891.69
8.61807	468330.00	3769916.69	7.68797	468355.00	3769916.69
11.02852	468380.00	3769916.69	9.71601	468405.00	3769916.69
7.24849	468430.00	3769916.69	12.60443	468330.00	3769941.69
9.01687	468355.00	3769941.69	8.06764	468380.00	3769941.69
11.42155	468405.00	3769941.69	10.12622	468430.00	3769941.69
7.52741	468330.00	3769966.69	6.81339	468355.00	3769966.69
9.26556	468380.00	3769966.69	8.33886	468405.00	3769966.69
6.38778	468430.00	3769966.69	10.31859	468330.00	3769991.69
7.69188	468355.00	3769991.69	7.00453	468380.00	3769991.69
6.50014	468330.00	3770016.69	5.96993	468355.00	3770016.69
5.57191	468380.00	3770016.69	7.08350	468330.00	3770041.69
6.51381	468355.00	3770041.69	6.02348	468380.00	3770041.69
5.58118	468330.00	3770066.69	5.19805	468355.00	3770066.69
4.84702	468380.00	3770066.69	5.98958	468330.00	3770091.69
5.51369	468355.00	3770091.69	5.17294	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB41 ***
 INCLUDING SOURCE(S): FWYWB41 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
8.50084	468330.00	3769866.69	7.55681	468355.00	3769866.69
11.06415	468380.00	3769866.69	9.65008	468405.00	3769866.69
7.22767	468430.00	3769866.69	12.81416	468330.00	3769891.69
9.12123	468355.00	3769891.69	8.08996	468380.00	3769891.69
11.88605	468405.00	3769891.69	10.37169	468430.00	3769891.69
7.66168	468330.00	3769916.69	6.88026	468355.00	3769916.69
9.66336	468380.00	3769916.69	8.57703	468405.00	3769916.69
6.52354	468430.00	3769916.69	10.96007	468330.00	3769941.69
8.02672	468355.00	3769941.69	7.22146	468380.00	3769941.69
10.05971	468405.00	3769941.69	8.96494	468430.00	3769941.69
6.78609	468330.00	3769966.69	6.16844	468355.00	3769966.69
8.28858	468380.00	3769966.69	7.48725	468405.00	3769966.69
5.81864	468430.00	3769966.69	9.20231	468330.00	3769991.69
6.96569	468355.00	3769991.69	6.36063	468380.00	3769991.69
5.94533	468330.00	3770016.69	5.47205	468355.00	3770016.69
5.13857	468380.00	3770016.69	6.46792	468330.00	3770041.69
5.99429	468355.00	3770041.69	5.54781	468380.00	3770041.69
5.17405	468330.00	3770066.69	4.82195	468355.00	3770066.69
4.52126	468380.00	3770066.69	5.55155	468330.00	3770091.69
5.14359	468355.00	3770091.69	4.82452	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB42 ***
 INCLUDING SOURCE(S): FWYWB42 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
7.52692	468330.00	3769866.69	6.74316	468355.00	3769866.69
9.61361	468380.00	3769866.69	8.46959	468405.00	3769866.69
6.47502	468430.00	3769866.69	11.00773	468330.00	3769891.69
8.05230	468355.00	3769891.69	7.19728	468380.00	3769891.69
10.30556	468405.00	3769891.69	9.07787	468430.00	3769891.69
6.85223	468330.00	3769916.69	6.19085	468355.00	3769916.69
8.52577	468380.00	3769916.69	7.62074	468405.00	3769916.69
5.89779	468430.00	3769916.69	9.59844	468330.00	3769941.69
7.18118	468355.00	3769941.69	6.49540	468380.00	3769941.69
8.90230	468405.00	3769941.69	7.97670	468430.00	3769941.69
6.14052	468330.00	3769966.69	5.60488	468355.00	3769966.69
7.43909	468380.00	3769966.69	6.74690	468405.00	3769966.69
5.31482	468430.00	3769966.69	8.22904	468330.00	3769991.69
6.32289	468355.00	3769991.69	5.79123	468380.00	3769991.69
5.44689	468330.00	3770016.69	5.02509	468355.00	3770016.69
4.74415	468380.00	3770016.69	5.91348	468330.00	3770041.69
5.51854	468355.00	3770041.69	5.11384	468380.00	3770041.69
4.79736	468330.00	3770066.69	4.47519	468355.00	3770066.69
4.21728	468380.00	3770066.69	5.14428	468330.00	3770091.69
4.79492	468355.00	3770091.69	4.49806	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB43 ***
 INCLUDING SOURCE(S): FWYWB43 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
6.71967	468330.00	3769866.69	4.62162	468355.00	3769866.69
8.44259	468380.00	3769866.69	7.50317	468405.00	3769866.69
5.83967	468430.00	3769866.69	9.57169	468330.00	3769891.69
7.16785	468355.00	3769891.69	6.45093	468380.00	3769891.69
9.02746	468405.00	3769891.69	8.01927	468430.00	3769891.69
6.16868	468330.00	3769916.69	5.60411	468355.00	3769916.69
7.58061	468380.00	3769916.69	6.81971	468405.00	3769916.69
5.36029	468430.00	3769916.69	8.47578	468330.00	3769941.69
6.46318	468355.00	3769941.69	5.87539	468380.00	3769941.69
7.92790	468405.00	3769941.69	7.14167	468430.00	3769941.69
5.58250	468330.00	3769966.69	5.11586	468355.00	3769966.69
6.70845	468380.00	3769966.69	6.10892	468405.00	3769966.69
4.87288	468430.00	3769966.69	7.39205	468330.00	3769991.69
5.76051	468355.00	3769991.69	5.29267	468380.00	3769991.69
5.00474	468330.00	3770016.69	4.62858	468355.00	3770016.69
4.39027	468380.00	3770016.69	5.42107	468330.00	3770041.69
5.08993	468355.00	3770041.69	4.72390	468380.00	3770041.69
4.45475	468330.00	3770066.69	3.08552	468355.00	3770066.69
2.89133	468380.00	3770066.69	4.77253	468330.00	3770091.69
4.47292	468355.00	3770091.69	4.19780	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB44 ***
 INCLUDING SOURCE(S): FWYWB44 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
4.59799	468330.00	3769866.69	4.16626	468355.00	3769866.69
7.48541	468380.00	3769866.69	6.70363	468405.00	3769866.69
5.29966	468430.00	3769866.69	8.41380	468330.00	3769891.69
6.42958	468355.00	3769891.69	5.82205	468380.00	3769891.69
7.98291	468405.00	3769891.69	7.14455	468430.00	3769891.69
5.58785	468330.00	3769916.69	5.10190	468355.00	3769916.69
6.78994	468380.00	3769916.69	6.14427	468405.00	3769916.69
4.89668	468430.00	3769916.69	7.54403	468330.00	3769941.69
5.85094	468355.00	3769941.69	5.34365	468380.00	3769941.69
7.10543	468405.00	3769941.69	6.43351	468430.00	3769941.69
5.09903	468330.00	3769966.69	4.69046	468355.00	3769966.69
6.07967	468380.00	3769966.69	5.55826	468405.00	3769966.69
4.48486	468430.00	3769966.69	6.67298	468330.00	3769991.69
5.26882	468355.00	3769991.69	4.85600	468380.00	3769991.69
4.61315	468330.00	3770016.69	4.27716	468355.00	3770016.69
3.02975	468380.00	3770016.69	4.98491	468330.00	3770041.69
4.70549	468355.00	3770041.69	4.37473	468380.00	3770041.69
4.14461	468330.00	3770066.69	2.86016	468355.00	3770066.69
2.69278	468380.00	3770066.69	4.43513	468330.00	3770091.69
3.07630	468355.00	3770091.69	2.89406	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB45 ***
 INCLUDING SOURCE(S): FWYWB45 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
4.14941	468330.00	3769866.69	3.78056	468355.00	3769866.69
6.67048	468380.00	3769866.69	6.01633	468405.00	3769866.69
4.82314	468430.00	3769866.69	7.43851	468330.00	3769891.69
5.78718	468355.00	3769891.69	5.27082	468380.00	3769891.69
7.08851	468405.00	3769891.69	6.38932	468430.00	3769891.69
5.07289	468330.00	3769916.69	4.65425	468355.00	3769916.69
6.09682	468380.00	3769916.69	5.54881	468405.00	3769916.69
4.47901	468430.00	3769916.69	6.73169	468330.00	3769941.69
5.30350	468355.00	3769941.69	4.86643	468380.00	3769941.69
6.37409	468405.00	3769941.69	5.80232	468430.00	3769941.69
4.65935	468330.00	3769966.69	4.30279	468355.00	3769966.69
5.50906	468380.00	3769966.69	5.05823	468405.00	3769966.69
4.12684	468430.00	3769966.69	6.01988	468330.00	3769991.69
4.81494	468355.00	3769991.69	4.45317	468380.00	3769991.69
4.24644	468330.00	3770016.69	3.94863	468355.00	3770016.69
2.80438	468380.00	3770016.69	4.57525	468330.00	3770041.69
4.33799	468355.00	3770041.69	4.04260	468380.00	3770041.69
2.86387	468330.00	3770066.69	2.65779	468355.00	3770066.69
2.51212	468380.00	3770066.69	4.10689	468330.00	3770091.69
2.86378	468355.00	3770091.69	2.69626	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB46 ***
 INCLUDING SOURCE(S): FWYWB46 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
3.76199	468330.00	3769866.69	3.44464	468355.00	3769866.69
5.98797	468380.00	3769866.69	5.43465	468405.00	3769866.69
4.41130	468430.00	3769866.69	6.63111	468330.00	3769891.69
5.24090	468355.00	3769891.69	4.79809	468380.00	3769891.69
6.34260	468405.00	3769891.69	5.75309	468430.00	3769891.69
4.62917	468330.00	3769916.69	4.26581	468355.00	3769916.69
5.50877	468380.00	3769916.69	5.03954	468405.00	3769916.69
4.11486	468430.00	3769916.69	6.04835	468330.00	3769941.69
4.83218	468355.00	3769941.69	4.45292	468380.00	3769941.69
5.75286	468405.00	3769941.69	5.26250	468430.00	3769941.69
4.27600	468330.00	3769966.69	3.96300	468355.00	3769966.69
5.01672	468380.00	3769966.69	4.62455	468405.00	3769966.69
3.81123	468430.00	3769966.69	5.45918	468330.00	3769991.69
4.41810	468355.00	3769991.69	4.09956	468380.00	3769991.69
3.92215	468330.00	3770016.69	3.65716	468355.00	3770016.69
2.59989	468380.00	3770016.69	4.21404	468330.00	3770041.69
4.01108	468355.00	3770041.69	3.74663	468380.00	3770041.69
2.65927	468330.00	3770066.69	2.47264	468355.00	3770066.69
2.34538	468380.00	3770066.69	3.81232	468330.00	3770091.69
2.66692	468355.00	3770091.69	2.51350	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB47 ***
 INCLUDING SOURCE(S): FWYWB47 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
3.35771	468330.00	3769866.69	3.09025	468355.00	3769866.69
4.10535	468380.00	3769866.69	3.69463	468405.00	3769866.69
3.03180	468430.00	3769866.69	5.94018	468330.00	3769891.69
3.59003	468355.00	3769891.69	3.29230	468380.00	3769891.69
5.69831	468405.00	3769891.69	5.19911	468430.00	3769891.69
4.23466	468330.00	3769916.69	2.94943	468355.00	3769916.69
4.99216	468380.00	3769916.69	4.58937	468405.00	3769916.69
2.83841	468430.00	3769916.69	5.45193	468330.00	3769941.69
4.41202	468355.00	3769941.69	4.08256	468380.00	3769941.69
5.20440	468405.00	3769941.69	4.78361	468430.00	3769941.69
3.92987	468330.00	3769966.69	2.73566	468355.00	3769966.69
4.57527	468380.00	3769966.69	4.23438	468405.00	3769966.69
2.63724	468430.00	3769966.69	4.95796	468330.00	3769991.69
4.05751	468355.00	3769991.69	3.77750	468380.00	3769991.69
2.71108	468330.00	3770016.69	2.49673	468355.00	3770016.69
2.36768	468380.00	3770016.69	3.88232	468330.00	3770041.69
2.76768	468355.00	3770041.69	2.55654	468380.00	3770041.69
2.42148	468330.00	3770066.69	2.25840	468355.00	3770066.69
2.14849	468380.00	3770066.69	2.59123	468330.00	3770091.69
2.43164	468355.00	3770091.69	2.29626	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
 *** 03/31/16
 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB48 ***
 INCLUDING SOURCE(S): FWYWB48 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
3.06517	468330.00	3769866.69	2.83255	468355.00	3769866.69
3.71094	468380.00	3769866.69	3.35713	468405.00	3769866.69
2.78277	468430.00	3769866.69	5.36360	468330.00	3769891.69
3.26813	468355.00	3769891.69	3.01002	468380.00	3769891.69
5.15823	468405.00	3769891.69	4.73064	468430.00	3769891.69
3.89478	468330.00	3769916.69	2.71127	468355.00	3769916.69
4.55336	468380.00	3769916.69	4.20419	468405.00	3769916.69
2.61383	468430.00	3769916.69	4.94930	468330.00	3769941.69
4.05096	468355.00	3769941.69	3.76232	468380.00	3769941.69
4.73936	468405.00	3769941.69	4.37475	468430.00	3769941.69
3.62936	468330.00	3769966.69	2.52389	468355.00	3769966.69
4.19621	468380.00	3769966.69	3.89745	468405.00	3769966.69
2.43803	468430.00	3769966.69	4.53006	468330.00	3769991.69
3.74447	468355.00	3769991.69	3.49661	468380.00	3769991.69
2.50574	468330.00	3770016.69	2.31414	468355.00	3770016.69
2.20056	468380.00	3770016.69	3.59269	468330.00	3770041.69
2.55947	468355.00	3770041.69	2.37027	468380.00	3770041.69
2.25191	468330.00	3770066.69	2.10463	468355.00	3770066.69
2.00764	468380.00	3770066.69	2.40493	468330.00	3770091.69
2.26475	468355.00	3770091.69	2.14184	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB49 ***
 INCLUDING SOURCE(S): FWYWB49 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
2.81148	468330.00	3769866.69	2.60772	468355.00	3769866.69
3.37381	468380.00	3769866.69	3.06645	468405.00	3769866.69
2.56512	468430.00	3769866.69	4.87183	468330.00	3769891.69
2.99015	468355.00	3769891.69	2.76471	468380.00	3769891.69
4.69578	468405.00	3769891.69	4.32641	468430.00	3769891.69
3.59668	468330.00	3769916.69	2.50267	468355.00	3769916.69
4.17324	468380.00	3769916.69	3.86836	468405.00	3769916.69
2.41657	468430.00	3769916.69	4.51689	468330.00	3769941.69
3.73497	468355.00	3769941.69	3.48052	468380.00	3769941.69
4.33713	468405.00	3769941.69	4.01898	468430.00	3769941.69
3.36396	468330.00	3769966.69	2.33730	468355.00	3769966.69
3.86470	468380.00	3769966.69	3.60132	468405.00	3769966.69
2.26190	468430.00	3769966.69	4.15776	468330.00	3769991.69
3.46804	468355.00	3769991.69	3.24754	468380.00	3769991.69
2.32407	468330.00	3770016.69	2.15197	468355.00	3770016.69
2.05146	468380.00	3770016.69	3.33562	468330.00	3770041.69
2.37487	468355.00	3770041.69	2.20460	468380.00	3770041.69
2.10031	468330.00	3770066.69	1.96683	468355.00	3770066.69
1.88084	468380.00	3770066.69	2.23873	468330.00	3770091.69
2.11491	468355.00	3770091.69	2.00307	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB50 ***
 INCLUDING SOURCE(S): FWYWB50 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
2.59992	468330.00	3769866.69	2.41931	468355.00	3769866.69
3.09626	468380.00	3769866.69	2.82547	468405.00	3769866.69
2.38323	468430.00	3769866.69	4.44970	468330.00	3769891.69
2.75996	468355.00	3769891.69	2.56062	468380.00	3769891.69
4.29744	468405.00	3769891.69	3.97581	468430.00	3769891.69
3.33428	468330.00	3769916.69	2.32852	468355.00	3769916.69
3.84240	468380.00	3769916.69	3.57435	468405.00	3769916.69
2.25163	468430.00	3769916.69	4.14289	468330.00	3769941.69
3.45738	468355.00	3769941.69	3.23175	468380.00	3769941.69
3.98761	468405.00	3769941.69	3.70810	468430.00	3769941.69
3.12889	468330.00	3769966.69	2.18092	468355.00	3769966.69
3.57374	468380.00	3769966.69	3.34019	468405.00	3769966.69
2.11388	468430.00	3769966.69	3.83256	468330.00	3769991.69
3.22327	468355.00	3769991.69	3.02613	468380.00	3769991.69
2.17123	468330.00	3770016.69	2.01495	468355.00	3770016.69
1.92494	468380.00	3770016.69	3.10698	468330.00	3770041.69
2.21951	468355.00	3770041.69	2.06459	468380.00	3770041.69
1.97181	468330.00	3770066.69	1.84963	468355.00	3770066.69
1.77281	468380.00	3770066.69	2.09824	468330.00	3770091.69
1.98779	468355.00	3770091.69	1.88519	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB51 ***
 INCLUDING SOURCE(S): FWYWB51 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
2.40948	468330.00	3769866.69	2.24874	468355.00	3769866.69
2.84986	468380.00	3769866.69	2.60999	468405.00	3769866.69
2.21860	468430.00	3769866.69	4.08140	468330.00	3769891.69
2.55401	468355.00	3769891.69	2.37693	468380.00	3769891.69
3.94798	468405.00	3769891.69	3.66655	468430.00	3769891.69
3.09953	468330.00	3769916.69	2.17088	468355.00	3769916.69
3.54902	468380.00	3769916.69	3.31246	468405.00	3769916.69
2.10224	468430.00	3769916.69	3.81283	468330.00	3769941.69
3.20885	468355.00	3769941.69	3.00817	468380.00	3769941.69
3.67715	468405.00	3769941.69	3.43083	468430.00	3769941.69
2.91659	468330.00	3769966.69	2.03903	468355.00	3769966.69
3.31264	468380.00	3769966.69	3.10510	468405.00	3769966.69
1.97911	468430.00	3769966.69	3.54166	468330.00	3769991.69
3.00159	468355.00	3769991.69	2.82511	468380.00	3769991.69
2.03151	468330.00	3770016.69	1.88952	468355.00	3770016.69
1.80825	468380.00	3770016.69	2.89858	468330.00	3770041.69
2.07640	468355.00	3770041.69	1.93553	468380.00	3770041.69
1.85233	468330.00	3770066.69	1.74065	468355.00	3770066.69
1.67151	468380.00	3770066.69	1.96757	468330.00	3770091.69
1.86842	468355.00	3770091.69	1.77464	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB52 ***
 INCLUDING SOURCE(S): FWYWB52 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
2.24047	468330.00	3769866.69	2.09667	468355.00	3769866.69
2.63346	468380.00	3769866.69	2.41971	468405.00	3769866.69
2.07152	468430.00	3769866.69	3.75959	468330.00	3769891.69
2.37167	468355.00	3769891.69	2.21352	468380.00	3769891.69
3.64195	468405.00	3769891.69	3.39413	468430.00	3769891.69
2.89024	468330.00	3769916.69	2.02972	468355.00	3769916.69
3.29000	468380.00	3769916.69	3.08006	468405.00	3769916.69
1.96817	468430.00	3769916.69	3.52301	468330.00	3769941.69
2.98781	468355.00	3769941.69	2.80845	468380.00	3769941.69
3.40369	468405.00	3769941.69	3.18539	468430.00	3769941.69
2.72651	468330.00	3769966.69	1.91143	468355.00	3769966.69
3.08080	468380.00	3769966.69	2.89548	468405.00	3769966.69
1.85763	468430.00	3769966.69	3.28453	468330.00	3769991.69
2.80335	468355.00	3769991.69	2.64468	468380.00	3769991.69
1.90564	468330.00	3770016.69	1.77614	468355.00	3770016.69
1.70246	468380.00	3770016.69	2.71163	468330.00	3770041.69
1.94741	468355.00	3770041.69	1.81886	468380.00	3770041.69
1.74392	468330.00	3770066.69	1.64153	468355.00	3770066.69
1.57908	468380.00	3770066.69	1.84929	468330.00	3770091.69
1.75990	468355.00	3770091.69	1.67396	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB53 ***
 INCLUDING SOURCE(S): FWYWB53 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
2.08967	468330.00	3769866.69	1.96042	468355.00	3769866.69
2.44221	468380.00	3769866.69	2.25069	468405.00	3769866.69
1.93946	468430.00	3769866.69	3.47648	468330.00	3769891.69
2.20933	468355.00	3769891.69	2.06741	468380.00	3769891.69
3.37219	468405.00	3769891.69	3.15271	468430.00	3769891.69
2.70269	468330.00	3769916.69	1.90273	468355.00	3769916.69
3.05997	468380.00	3769916.69	2.87271	468405.00	3769916.69
1.84730	468430.00	3769916.69	3.26691	468330.00	3769941.69
2.79017	468355.00	3769941.69	2.62915	468380.00	3769941.69
3.16135	468405.00	3769941.69	2.96689	468430.00	3769941.69
2.55551	468330.00	3769966.69	1.79616	468355.00	3769966.69
2.87385	468380.00	3769966.69	2.70761	468405.00	3769966.69
1.74767	468430.00	3769966.69	3.05596	468330.00	3769991.69
2.62523	468355.00	3769991.69	2.48199	468380.00	3769991.69
1.79176	468330.00	3770016.69	1.67326	468355.00	3770016.69
1.60619	468380.00	3770016.69	2.54319	468330.00	3770041.69
1.83066	468355.00	3770041.69	1.71297	468380.00	3770041.69
1.64522	468330.00	3770066.69	1.55107	468355.00	3770066.69
1.49447	468380.00	3770066.69	1.74183	468330.00	3770091.69
1.66094	468355.00	3770091.69	1.58198	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB54 ***
 INCLUDING SOURCE(S): FWYWB54 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
1.95660	468330.00	3769866.69	1.83973	468355.00	3769866.69
2.27494	468380.00	3769866.69	2.10217	468405.00	3769866.69
1.82243	468430.00	3769866.69	3.22631	468330.00	3769891.69
2.06651	468355.00	3769891.69	1.93838	468380.00	3769891.69
3.13336	468405.00	3769891.69	2.93793	468430.00	3769891.69
2.53413	468330.00	3769916.69	1.79008	468355.00	3769916.69
2.85493	468380.00	3769916.69	2.68709	468405.00	3769916.69
1.73992	468430.00	3769916.69	3.03966	468330.00	3769941.69
2.61292	468355.00	3769941.69	2.46772	468380.00	3769941.69
2.94578	468405.00	3769941.69	2.77170	468430.00	3769941.69
2.40128	468330.00	3769966.69	1.69357	468355.00	3769966.69
2.68852	468380.00	3769966.69	2.53874	468405.00	3769966.69
1.64962	468430.00	3769966.69	2.85204	468330.00	3769991.69
2.46474	468355.00	3769991.69	2.33494	468380.00	3769991.69
1.69023	468330.00	3770016.69	1.58125	468355.00	3770016.69
1.51985	468380.00	3770016.69	2.39102	468330.00	3770041.69
1.72656	468355.00	3770041.69	1.61827	468380.00	3770041.69
1.55669	468330.00	3770066.69	1.46974	468355.00	3770066.69
1.41821	468380.00	3770066.69	1.64568	468330.00	3770091.69
1.57211	468355.00	3770091.69	1.49927	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB55 ***
 INCLUDING SOURCE(S): FWYWB55 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
1.86041	468330.00	3769866.69	1.75237	468355.00	3769866.69
2.82012	468380.00	3769866.69	1.99541	468405.00	3769866.69
1.73967	468430.00	3769866.69	3.00545	468330.00	3769891.69
2.58688	468355.00	3769891.69	1.84715	468380.00	3769891.69
2.92215	468405.00	3769891.69	2.74713	468430.00	3769891.69
2.38296	468330.00	3769916.69	2.25528	468355.00	3769916.69
2.67247	468380.00	3769916.69	2.52125	468405.00	3769916.69
2.20095	468430.00	3769916.69	2.83828	468330.00	3769941.69
2.45426	468355.00	3769941.69	2.32273	468380.00	3769941.69
2.75430	468405.00	3769941.69	2.59764	468430.00	3769941.69
2.26250	468330.00	3769966.69	2.14658	468355.00	3769966.69
2.52289	468380.00	3769966.69	2.38730	468405.00	3769966.69
2.09230	468430.00	3769966.69	2.67046	468330.00	3769991.69
2.32050	468355.00	3769991.69	2.20238	468380.00	3769991.69
2.14158	468330.00	3770016.69	1.51637	468355.00	3770016.69
1.45842	468380.00	3770016.69	2.25395	468330.00	3770041.69
2.18682	468355.00	3770041.69	1.55143	468380.00	3770041.69
1.49418	468330.00	3770066.69	1.41192	468355.00	3770066.69
1.36418	468380.00	3770066.69	1.57812	468330.00	3770091.69
1.50975	468355.00	3770091.69	1.44115	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL1 ***
 INCLUDING SOURCE(S): RAIL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
24.87451	468330.00	3769866.69	23.56637	468355.00	3769866.69
26.83208	468380.00	3769866.69	26.08467	468405.00	3769866.69
18.71313	468430.00	3769866.69	26.89282	468330.00	3769891.69
20.54443	468355.00	3769891.69	19.59905	468380.00	3769891.69
21.81449	468405.00	3769891.69	21.35480	468430.00	3769891.69
15.86799	468330.00	3769916.69	15.26491	468355.00	3769916.69
17.24345	468380.00	3769916.69	16.55496	468405.00	3769916.69
12.72415	468430.00	3769916.69	17.80306	468330.00	3769941.69
13.62580	468355.00	3769941.69	13.13539	468380.00	3769941.69
14.68809	468405.00	3769941.69	14.16856	468430.00	3769941.69
11.08994	468330.00	3769966.69	10.80335	468355.00	3769966.69
11.84658	468380.00	3769966.69	11.43763	468405.00	3769966.69
9.31133	468430.00	3769966.69	12.27923	468330.00	3769991.69
9.76445	468355.00	3769991.69	9.51631	468380.00	3769991.69
8.27047	468330.00	3770016.69	8.11709	468355.00	3770016.69
7.15294	468380.00	3770016.69	8.45626	468330.00	3770041.69
7.40746	468355.00	3770041.69	7.26843	468380.00	3770041.69
6.45214	468330.00	3770066.69	6.36394	468355.00	3770066.69
5.70604	468380.00	3770066.69	6.55469	468330.00	3770091.69
5.85287	468355.00	3770091.69	5.77596	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL2 ***
 INCLUDING SOURCE(S): RAIL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
32.01578	468330.00	3769866.69	30.17146	468355.00	3769866.69
33.88390	468380.00	3769866.69	33.43407	468405.00	3769866.69
23.18199	468430.00	3769866.69	33.22019	468330.00	3769891.69
25.65665	468355.00	3769891.69	24.43067	468380.00	3769891.69
26.76037	468405.00	3769891.69	26.52057	468430.00	3769891.69
19.26934	468330.00	3769916.69	18.43616	468355.00	3769916.69
21.02254	468380.00	3769916.69	20.18487	468405.00	3769916.69
15.06241	468430.00	3769916.69	21.58495	468330.00	3769941.69
16.27208	468355.00	3769941.69	15.61803	468380.00	3769941.69
17.56243	468405.00	3769941.69	16.96145	468430.00	3769941.69
12.96141	468330.00	3769966.69	12.58307	468355.00	3769966.69
13.94625	468380.00	3769966.69	13.42032	468405.00	3769966.69
10.70136	468430.00	3769966.69	14.47368	468330.00	3769991.69
11.28881	468355.00	3769991.69	10.96615	468380.00	3769991.69
9.41885	468330.00	3770016.69	9.22513	468355.00	3770016.69
8.05261	468380.00	3770016.69	9.65569	468330.00	3770041.69
8.36984	468355.00	3770041.69	8.19582	468380.00	3770041.69
7.21376	468330.00	3770066.69	7.10591	468355.00	3770066.69
6.32603	468380.00	3770066.69	7.34047	468330.00	3770091.69
6.50436	468355.00	3770091.69	6.41034	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL3 ***
 INCLUDING SOURCE(S): RAIL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
43.77094	468330.00	3769866.69	41.40466	468355.00	3769866.69
43.45148	468380.00	3769866.69	44.57443	468405.00	3769866.69
30.35920	468430.00	3769866.69	40.79211	468330.00	3769891.69
33.50381	468355.00	3769891.69	32.15714	468380.00	3769891.69
33.19669	468405.00	3769891.69	33.87266	468430.00	3769891.69
24.46418	468330.00	3769916.69	23.25560	468355.00	3769916.69
26.51032	468380.00	3769916.69	25.66853	468405.00	3769916.69
18.46820	468430.00	3769916.69	26.74651	468330.00	3769941.69
20.18206	468355.00	3769941.69	19.26841	468380.00	3769941.69
21.57706	468405.00	3769941.69	21.01764	468430.00	3769941.69
15.61816	468330.00	3769966.69	15.08626	468355.00	3769966.69
16.95931	468380.00	3769966.69	16.27121	468405.00	3769966.69
12.60114	468430.00	3769966.69	17.55806	468330.00	3769991.69
13.42030	468355.00	3769991.69	12.96190	468380.00	3769991.69
10.97146	468330.00	3770016.69	10.71136	468355.00	3770016.69
9.23489	468380.00	3770016.69	11.28912	468330.00	3770041.69
9.65985	468355.00	3770041.69	9.42764	468380.00	3770041.69
8.20597	468330.00	3770066.69	8.06445	468355.00	3770066.69
7.11533	468380.00	3770066.69	8.37655	468330.00	3770091.69
7.34753	468355.00	3770091.69	7.22328	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL4 ***
 INCLUDING SOURCE(S): RAIL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
61.18017	468330.00	3769866.69	60.15018	468355.00	3769866.69
53.39545	468380.00	3769866.69	58.61018	468405.00	3769866.69
41.75106	468430.00	3769866.69	47.28934	468330.00	3769891.69
44.13284	468355.00	3769891.69	43.77110	468380.00	3769891.69
39.85989	468405.00	3769891.69	42.62274	468430.00	3769891.69
32.14598	468330.00	3769916.69	30.47336	468355.00	3769916.69
33.54566	468380.00	3769916.69	33.33726	468405.00	3769916.69
23.32288	468430.00	3769916.69	32.71033	468330.00	3769941.69
25.66697	468355.00	3769941.69	24.51392	468380.00	3769941.69
26.52718	468405.00	3769941.69	26.40775	468430.00	3769941.69
19.30819	468330.00	3769966.69	18.50400	468355.00	3769966.69
21.00904	468380.00	3769966.69	20.21570	468405.00	3769966.69
15.10312	468430.00	3769966.69	21.49977	468330.00	3769991.69
16.30478	468355.00	3769991.69	15.64218	468380.00	3769991.69
12.98965	468330.00	3770016.69	12.62396	468355.00	3770016.69
10.72791	468380.00	3770016.69	13.44459	468330.00	3770041.69
11.31636	468355.00	3770041.69	10.99486	468380.00	3770041.69
9.44412	468330.00	3770066.69	9.25094	468355.00	3770066.69
8.07519	468380.00	3770066.69	9.68298	468330.00	3770091.69
8.39345	468355.00	3770091.69	8.22028	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL5 ***
 INCLUDING SOURCE(S): RAIL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
82.41296	468330.00	3769866.69	88.94836	468355.00	3769866.69
60.60160	468380.00	3769866.69	71.81051	468405.00	3769866.69
59.70007	468430.00	3769866.69	50.69327	468330.00	3769891.69
56.46141	468355.00	3769891.69	59.72621	468380.00	3769891.69
45.21474	468405.00	3769891.69	51.11367	468430.00	3769891.69
43.23872	468330.00	3769916.69	41.66484	468355.00	3769916.69
41.48757	468380.00	3769916.69	43.21697	468405.00	3769916.69
30.55680	468430.00	3769916.69	38.57406	468330.00	3769941.69
33.07620	468355.00	3769941.69	32.11390	468380.00	3769941.69
32.00008	468405.00	3769941.69	33.03153	468430.00	3769941.69
24.55865	468330.00	3769966.69	23.37973	468355.00	3769966.69
26.21678	468380.00	3769966.69	25.62243	468405.00	3769966.69
18.53057	468430.00	3769966.69	26.18088	468330.00	3769991.69
20.23958	468355.00	3769991.69	19.35295	468380.00	3769991.69
15.69496	468330.00	3770016.69	15.13856	468355.00	3770016.69
12.63439	468380.00	3770016.69	16.33948	468330.00	3770041.69
13.49025	468355.00	3770041.69	13.02448	468380.00	3770041.69
11.00917	468330.00	3770066.69	10.72969	468355.00	3770066.69
9.24985	468380.00	3770066.69	11.35050	468330.00	3770091.69
9.70092	468355.00	3770091.69	9.45042	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL6 ***
 INCLUDING SOURCE(S): RAIL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
100.12180	468330.00	3769866.69	123.64306	468355.00	3769866.69
62.47710	468380.00	3769866.69	79.06657	468405.00	3769866.69
85.54889	468430.00	3769866.69	50.07331	468330.00	3769891.69
67.55405	468355.00	3769891.69	77.96074	468380.00	3769891.69
47.88879	468405.00	3769891.69	57.01966	468430.00	3769891.69
57.81197	468330.00	3769916.69	58.70680	468355.00	3769916.69
48.93156	468380.00	3769916.69	54.20189	468405.00	3769916.69
41.54940	468430.00	3769916.69	43.17805	468330.00	3769941.69
42.27410	468355.00	3769941.69	42.71030	468380.00	3769941.69
37.25718	468405.00	3769941.69	40.27212	468430.00	3769941.69
31.99042	468330.00	3769966.69	30.58485	468355.00	3769966.69
32.43445	468380.00	3769966.69	32.71534	468405.00	3769966.69
23.41419	468430.00	3769966.69	31.23455	468330.00	3769991.69
25.51735	468355.00	3769991.69	24.55880	468380.00	3769991.69
19.41588	468330.00	3770016.69	18.59428	468355.00	3770016.69
15.16774	468380.00	3770016.69	20.22994	468330.00	3770041.69
16.38500	468355.00	3770041.69	15.74784	468380.00	3770041.69
13.04966	468330.00	3770066.69	12.64274	468355.00	3770066.69
10.73456	468380.00	3770066.69	13.53548	468330.00	3770091.69
11.37900	468355.00	3770091.69	11.01936	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL7 ***
 INCLUDING SOURCE(S): RAIL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
103.27294	468330.00	3769866.69	143.54535	468355.00	3769866.69
58.00748	468380.00	3769866.69	76.22708	468405.00	3769866.69
113.44096	468430.00	3769866.69	45.56152	468330.00	3769891.69
72.84567	468355.00	3769891.69	91.63658	468380.00	3769891.69
46.91636	468405.00	3769891.69	58.00917	468430.00	3769891.69
73.34803	468330.00	3769916.69	81.64482	468355.00	3769916.69
53.71982	468380.00	3769916.69	63.42290	468405.00	3769916.69
57.60120	468430.00	3769916.69	45.20980	468330.00	3769941.69
52.01315	468355.00	3769941.69	55.97361	468380.00	3769941.69
41.17024	468405.00	3769941.69	46.73409	468430.00	3769941.69
42.00313	468330.00	3769966.69	41.26542	468355.00	3769966.69
38.97903	468380.00	3769966.69	41.19611	468405.00	3769966.69
30.53513	468430.00	3769966.69	35.90874	468330.00	3769991.69
32.24761	468355.00	3769991.69	31.76008	468380.00	3769991.69
24.56688	468330.00	3770016.69	23.49436	468355.00	3770016.69
18.64119	468380.00	3770016.69	25.34210	468330.00	3770041.69
20.22412	468355.00	3770041.69	19.46718	468380.00	3770041.69
15.77869	468330.00	3770066.69	15.17906	468355.00	3770066.69
12.64408	468380.00	3770066.69	16.42173	468330.00	3770091.69
13.56687	468355.00	3770091.69	13.06577	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL8 ***
 INCLUDING SOURCE(S): RAIL8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
89.55725	468330.00	3769866.69	130.45632	468355.00	3769866.69
49.24867	468380.00	3769866.69	64.97124	468405.00	3769866.69
127.23112	468430.00	3769866.69	38.78916	468330.00	3769891.69
69.74651	468355.00	3769891.69	92.94161	468380.00	3769891.69
42.72388	468405.00	3769891.69	53.75018	468430.00	3769891.69
84.05312	468330.00	3769916.69	104.22318	468355.00	3769916.69
54.23825	468380.00	3769916.69	67.38600	468405.00	3769916.69
77.65449	468430.00	3769916.69	44.13387	468330.00	3769941.69
59.77719	468355.00	3769941.69	69.24201	468380.00	3769941.69
42.79466	468405.00	3769941.69	50.70417	468430.00	3769941.69
53.82657	468330.00	3769966.69	55.91223	468355.00	3769966.69
44.60703	468380.00	3769966.69	49.75591	468405.00	3769966.69
40.55396	468430.00	3769966.69	39.29178	468330.00	3769991.69
39.92758	468355.00	3769991.69	40.96112	468380.00	3769991.69
31.38194	468330.00	3770016.69	30.36565	468355.00	3770016.69
23.41814	468380.00	3770016.69	31.57570	468330.00	3770041.69
25.07469	468355.00	3770041.69	24.43063	468380.00	3770041.69
19.39163	468330.00	3770066.69	18.57491	468355.00	3770066.69
15.13331	468380.00	3770066.69	20.12343	468330.00	3770091.69
16.37486	468355.00	3770091.69	15.73146	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL9 ***
 INCLUDING SOURCE(S): RAIL9 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
69.41113	468330.00	3769866.69	98.34493	468355.00	3769866.69
39.95432	468380.00	3769866.69	51.61655	468405.00	3769866.69
118.54537	468430.00	3769866.69	32.04035	468330.00	3769891.69
60.95263	468355.00	3769891.69	82.71628	468380.00	3769891.69
37.15312	468405.00	3769891.69	46.70481	468430.00	3769891.69
86.44133	468330.00	3769916.69	117.59284	468355.00	3769916.69
51.20929	468380.00	3769916.69	65.65066	468405.00	3769916.69
98.50293	468430.00	3769916.69	40.92649	468330.00	3769941.69
64.11394	468355.00	3769941.69	79.63951	468380.00	3769941.69
42.35623	468405.00	3769941.69	51.83529	468430.00	3769941.69
66.27888	468330.00	3769966.69	74.42734	468355.00	3769966.69
48.69709	468380.00	3769966.69	57.28329	468405.00	3769966.69
54.18628	468430.00	3769966.69	41.20970	468330.00	3769991.69
48.04421	468355.00	3769991.69	52.01814	468380.00	3769991.69
40.09343	468330.00	3770016.69	39.89102	468355.00	3770016.69
29.98257	468380.00	3770016.69	38.82332	468330.00	3770041.69
31.01154	468355.00	3770041.69	30.92879	468380.00	3770041.69
24.12885	468330.00	3770066.69	23.14057	468355.00	3770066.69
18.39591	468380.00	3770066.69	24.76795	468330.00	3770091.69
19.92443	468355.00	3770091.69	19.18961	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL10 ***
 INCLUDING SOURCE(S): RAIL10 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
51.29123	468330.00	3769866.69	68.44168	468355.00	3769866.69
31.82457	468380.00	3769866.69	39.81661	468405.00	3769866.69
92.15180	468430.00	3769866.69	26.15974	468330.00	3769891.69
49.41538	468355.00	3769891.69	65.68901	468380.00	3769891.69
31.16326	468405.00	3769891.69	38.56287	468430.00	3769891.69
78.46148	468330.00	3769916.69	111.90254	468355.00	3769916.69
45.21631	468380.00	3769916.69	58.39509	468405.00	3769916.69
112.52296	468430.00	3769916.69	36.09883	468330.00	3769941.69
63.34425	468355.00	3769941.69	83.06792	468380.00	3769941.69
39.76506	468405.00	3769941.69	49.59446	468430.00	3769941.69
76.93827	468330.00	3769966.69	95.07028	468355.00	3769966.69
50.30201	468380.00	3769966.69	62.06454	468405.00	3769966.69
72.45873	468430.00	3769966.69	41.20490	468330.00	3769991.69
55.70761	468355.00	3769991.69	64.44411	468380.00	3769991.69
51.17572	468330.00	3770016.69	53.56314	468355.00	3770016.69
39.54140	468380.00	3770016.69	46.95296	468330.00	3770041.69
38.30057	468355.00	3770041.69	39.67889	468380.00	3770041.69
30.63766	468330.00	3770066.69	29.70932	468355.00	3770066.69
22.97761	468380.00	3770066.69	30.74569	468330.00	3770091.69
24.59038	468355.00	3770091.69	23.93593	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL11 ***
 INCLUDING SOURCE(S): RAIL11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
38.99124	468330.00	3769866.69	49.85269	468355.00	3769866.69
25.71824	468380.00	3769866.69	31.31472	468405.00	3769866.69
65.77302	468430.00	3769866.69	21.60547	468330.00	3769891.69
38.76532	468355.00	3769891.69	49.54223	468380.00	3769891.69
25.76291	468405.00	3769891.69	31.16096	468430.00	3769891.69
63.50124	468330.00	3769916.69	88.91347	468355.00	3769916.69
37.86328	468380.00	3769916.69	48.11660	468405.00	3769916.69
108.73068	468430.00	3769916.69	30.65778	468330.00	3769941.69
57.14307	468355.00	3769941.69	76.54464	468380.00	3769941.69
35.48636	468405.00	3769941.69	44.35775	468430.00	3769941.69
81.16873	468330.00	3769966.69	109.71318	468355.00	3769966.69
48.66515	468380.00	3769966.69	62.03016	468405.00	3769966.69
93.24450	468430.00	3769966.69	39.09099	468330.00	3769991.69
60.91341	468355.00	3769991.69	75.45325	468380.00	3769991.69
63.86523	468330.00	3770016.69	72.13895	468355.00	3770016.69
53.44148	468380.00	3770016.69	54.84538	468330.00	3770041.69
46.62693	468355.00	3770041.69	50.97655	468380.00	3770041.69
39.52272	468330.00	3770066.69	39.40141	468355.00	3770066.69
29.65676	468380.00	3770066.69	38.19576	468330.00	3770091.69
30.67872	468355.00	3770091.69	30.54282	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL12 ***
 INCLUDING SOURCE(S): RAIL12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
31.54774	468330.00	3769866.69	39.34750	468355.00	3769866.69
21.59401	468380.00	3769866.69	25.85031	468405.00	3769866.69
49.17124	468430.00	3769866.69	18.40378	468330.00	3769891.69
31.08423	468355.00	3769891.69	38.51656	468380.00	3769891.69
21.60253	468405.00	3769891.69	25.61482	468430.00	3769891.69
49.07374	468330.00	3769916.69	65.29150	468355.00	3769916.69
31.16096	468380.00	3769916.69	38.54880	468405.00	3769916.69
88.91347	468430.00	3769916.69	25.76291	468330.00	3769941.69
48.11660	468355.00	3769941.69	63.50124	468380.00	3769941.69
30.65778	468405.00	3769941.69	37.86328	468430.00	3769941.69
76.54464	468330.00	3769966.69	108.73068	468355.00	3769966.69
44.35775	468380.00	3769966.69	57.14307	468405.00	3769966.69
109.71318	468430.00	3769966.69	35.48636	468330.00	3769991.69
62.03016	468355.00	3769991.69	81.16873	468380.00	3769991.69
75.94243	468330.00	3770016.69	94.16895	468355.00	3770016.69
72.69201	468380.00	3770016.69	60.91341	468330.00	3770041.69
55.15742	468355.00	3770041.69	64.36603	468380.00	3770041.69
51.19491	468330.00	3770066.69	53.59615	468355.00	3770066.69
39.51436	468380.00	3770066.69	46.95740	468330.00	3770091.69
38.38621	468355.00	3770091.69	39.62628	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL13 ***
 INCLUDING SOURCE(S): RAIL13 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
26.36156	468330.00	3769866.69	32.13440	468355.00	3769866.69
18.58537	468380.00	3769866.69	21.96355	468405.00	3769866.69
38.85403	468430.00	3769866.69	16.00522	468330.00	3769891.69
25.67329	468355.00	3769891.69	31.19307	468380.00	3769891.69
18.40141	468405.00	3769891.69	21.51259	468430.00	3769891.69
38.17452	468330.00	3769916.69	48.83346	468355.00	3769916.69
25.61482	468380.00	3769916.69	30.92093	468405.00	3769916.69
65.29150	468430.00	3769916.69	21.60253	468330.00	3769941.69
38.54880	468355.00	3769941.69	49.07374	468380.00	3769941.69
25.76291	468405.00	3769941.69	31.16096	468430.00	3769941.69
63.50124	468330.00	3769966.69	88.91347	468355.00	3769966.69
37.86328	468380.00	3769966.69	48.11660	468405.00	3769966.69
108.73068	468430.00	3769966.69	30.65778	468330.00	3769991.69
57.14307	468355.00	3769991.69	76.54464	468380.00	3769991.69
81.71391	468330.00	3770016.69	110.85341	468355.00	3770016.69
94.95440	468380.00	3770016.69	62.03016	468330.00	3770041.69
61.27697	468355.00	3770041.69	76.57672	468380.00	3770041.69
64.66660	468330.00	3770066.69	72.92697	468355.00	3770066.69
53.77027	468380.00	3770066.69	55.57591	468330.00	3770091.69
47.21217	468355.00	3770091.69	51.34343	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL14 ***
 INCLUDING SOURCE(S): RAIL14 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
22.68812	468330.00	3769866.69	27.08123	468355.00	3769866.69
16.44202	468380.00	3769866.69	19.20367	468405.00	3769866.69
32.20828	468430.00	3769866.69	14.28407	468330.00	3769891.69
22.07287	468355.00	3769891.69	26.41686	468380.00	3769891.69
16.15576	468405.00	3769891.69	18.71208	468430.00	3769891.69
31.36321	468330.00	3769916.69	39.21343	468355.00	3769916.69
21.75293	468380.00	3769916.69	25.86314	468405.00	3769916.69
49.69658	468430.00	3769916.69	18.58896	468330.00	3769941.69
31.34158	468355.00	3769941.69	38.76014	468380.00	3769941.69
21.84239	468405.00	3769941.69	25.92804	468430.00	3769941.69
49.94095	468330.00	3769966.69	66.64159	468355.00	3769966.69
31.58782	468380.00	3769966.69	39.14402	468405.00	3769966.69
91.10335	468430.00	3769966.69	26.07977	468330.00	3769991.69
48.95442	468355.00	3769991.69	64.79540	468380.00	3769991.69
78.69716	468330.00	3770016.69	112.64404	468355.00	3770016.69
114.08209	468380.00	3770016.69	58.18284	468330.00	3770041.69
63.47204	468355.00	3770041.69	83.96986	468380.00	3770041.69
78.03492	468330.00	3770066.69	96.47930	468355.00	3770066.69
73.59748	468380.00	3770066.69	62.63482	468330.00	3770091.69
56.47060	468355.00	3770091.69	65.43086	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL15 ***
 INCLUDING SOURCE(S): RAIL15 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
19.47957	468330.00	3769866.69	22.80233	468355.00	3769866.69
14.53169	468380.00	3769866.69	16.75519	468405.00	3769866.69
26.74130	468430.00	3769866.69	12.75116	468330.00	3769891.69
19.05602	468355.00	3769891.69	22.42754	468380.00	3769891.69
14.26116	468405.00	3769891.69	16.36073	468430.00	3769891.69
26.15844	468330.00	3769916.69	31.94576	468355.00	3769916.69
18.67984	468380.00	3769916.69	21.92970	468405.00	3769916.69
39.11745	468430.00	3769916.69	16.13023	468330.00	3769941.69
25.81103	468355.00	3769941.69	31.29375	468380.00	3769941.69
18.55777	468405.00	3769941.69	21.71300	468430.00	3769941.69
38.66841	468330.00	3769966.69	49.56592	468355.00	3769966.69
25.87734	468380.00	3769966.69	31.27416	468405.00	3769966.69
66.45596	468430.00	3769966.69	21.80348	468330.00	3769991.69
39.05471	468355.00	3769991.69	49.81573	468380.00	3769991.69
65.05853	468330.00	3770016.69	91.78697	468355.00	3770016.69
113.31361	468380.00	3770016.69	48.83791	468330.00	3770041.69
58.40154	468355.00	3770041.69	79.17729	468380.00	3770041.69
84.18124	468330.00	3770066.69	114.16275	468355.00	3770066.69
96.58683	468380.00	3770066.69	63.84254	468330.00	3770091.69
62.87459	468355.00	3770091.69	78.09772	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL16 ***
 INCLUDING SOURCE(S): RAIL16 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
16.91429	468330.00	3769866.69	19.48174	468355.00	3769866.69
12.94925	468380.00	3769866.69	14.75360	468405.00	3769866.69
22.57000	468430.00	3769866.69	11.47436	468330.00	3769891.69
16.65355	468355.00	3769891.69	19.29595	468380.00	3769891.69
12.74424	468405.00	3769891.69	14.47924	468430.00	3769891.69
22.25318	468330.00	3769916.69	26.57920	468355.00	3769916.69
16.35256	468380.00	3769916.69	18.96341	468405.00	3769916.69
31.92352	468430.00	3769916.69	14.25459	468330.00	3769941.69
21.91695	468355.00	3769941.69	26.14180	468380.00	3769941.69
16.12236	468405.00	3769941.69	18.66990	468430.00	3769941.69
31.27242	468330.00	3769966.69	39.08802	468355.00	3769966.69
21.70070	468380.00	3769966.69	25.79501	468405.00	3769966.69
49.52592	468430.00	3769966.69	18.54816	468330.00	3769991.69
31.25346	468355.00	3769991.69	38.64028	468380.00	3769991.69
50.09640	468330.00	3770016.69	67.06323	468355.00	3770016.69
92.51565	468380.00	3770016.69	39.02731	468330.00	3770041.69
49.09871	468355.00	3770041.69	65.56844	468380.00	3770041.69
79.53055	468330.00	3770066.69	113.64079	468355.00	3770066.69
114.54159	468380.00	3770066.69	58.84429	468330.00	3770091.69
64.20412	468355.00	3770091.69	84.41164	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL17 ***
 INCLUDING SOURCE(S): RAIL17 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
14.77504	468330.00	3769866.69	16.78505	468355.00	3769866.69
11.57136	468380.00	3769866.69	13.04414	468405.00	3769866.69
19.22772	468430.00	3769866.69	10.34813	468330.00	3769891.69
14.62193	468355.00	3769891.69	16.70814	468380.00	3769891.69
11.43530	468405.00	3769891.69	12.86527	468430.00	3769891.69
19.08297	468330.00	3769916.69	22.35160	468355.00	3769916.69
14.42459	468380.00	3769916.69	16.51874	468405.00	3769916.69
26.44294	468430.00	3769916.69	12.69966	468330.00	3769941.69
18.88072	468355.00	3769941.69	22.14779	468380.00	3769941.69
14.20180	468405.00	3769941.69	16.28690	468430.00	3769941.69
26.00901	468330.00	3769966.69	31.74633	468355.00	3769966.69
18.59023	468380.00	3769966.69	21.81494	468405.00	3769966.69
38.85434	468430.00	3769966.69	16.05912	468330.00	3769991.69
25.66704	468355.00	3769991.69	31.10263	468380.00	3769991.69
38.64731	468330.00	3770016.69	49.66634	468355.00	3770016.69
67.15172	468380.00	3770016.69	31.08851	468330.00	3770041.69
39.03416	468355.00	3770041.69	50.19425	468380.00	3770041.69
65.47358	468330.00	3770066.69	92.16975	468355.00	3770066.69
113.25944	468380.00	3770066.69	49.20753	468330.00	3770091.69
58.86659	468355.00	3770091.69	79.27776	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL18 ***
 INCLUDING SOURCE(S): RAIL18 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
12.99080	468330.00	3769866.69	14.58439	468355.00	3769866.69
10.37596	468380.00	3769866.69	11.58887	468405.00	3769866.69
16.53758	468430.00	3769866.69	9.35564	468330.00	3769891.69
12.90345	468355.00	3769891.69	14.56949	468380.00	3769891.69
10.29263	468405.00	3769891.69	11.47405	468430.00	3769891.69
16.49030	468330.00	3769916.69	19.00001	468355.00	3769916.69
12.78850	468380.00	3769916.69	14.47310	468405.00	3769916.69
22.17601	468430.00	3769916.69	11.37159	468330.00	3769941.69
16.40602	468355.00	3769941.69	18.94290	468380.00	3769941.69
12.62486	468405.00	3769941.69	14.33318	468430.00	3769941.69
21.97373	468330.00	3769966.69	26.21863	468355.00	3769966.69
16.17743	468380.00	3769966.69	18.74345	468405.00	3769966.69
31.45663	468430.00	3769966.69	14.11344	468330.00	3769991.69
21.64631	468355.00	3769991.69	25.79085	468380.00	3769991.69
30.99738	468330.00	3770016.69	38.80368	468355.00	3770016.69
49.51594	468380.00	3770016.69	25.45655	468330.00	3770041.69
30.98615	468355.00	3770041.69	38.57018	468380.00	3770041.69
49.92162	468330.00	3770066.69	66.61289	468355.00	3770066.69
91.43182	468380.00	3770066.69	38.97264	468330.00	3770091.69
49.03547	468355.00	3770091.69	64.99239	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL19 ***
 INCLUDING SOURCE(S): RAIL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
11.57720	468330.00	3769866.69	12.86870	468355.00	3769866.69
9.40247	468380.00	3769866.69	10.41939	468405.00	3769866.69
14.47204	468430.00	3769866.69	8.53695	468330.00	3769891.69
11.53440	468355.00	3769891.69	12.89568	468380.00	3769891.69
9.35475	468405.00	3769891.69	10.34785	468430.00	3769891.69
14.48355	468330.00	3769916.69	16.46607	468355.00	3769916.69
11.47405	468380.00	3769916.69	12.85658	468405.00	3769916.69
19.00001	468430.00	3769916.69	10.29263	468330.00	3769941.69
14.47310	468355.00	3769941.69	16.49030	468380.00	3769941.69
11.37159	468405.00	3769941.69	12.78850	468430.00	3769941.69
18.94290	468330.00	3769966.69	22.17601	468355.00	3769966.69
14.33318	468380.00	3769966.69	16.40602	468405.00	3769966.69
26.21863	468430.00	3769966.69	12.62486	468330.00	3769991.69
18.74345	468355.00	3769991.69	21.97373	468380.00	3769991.69
25.92638	468330.00	3770016.69	31.70778	468355.00	3770016.69
39.08066	468380.00	3770016.69	21.64631	468330.00	3770041.69
25.58735	468355.00	3770041.69	31.21919	468380.00	3770041.69
38.74600	468330.00	3770066.69	49.67641	468355.00	3770066.69
66.87295	468380.00	3770066.69	31.21210	468330.00	3770091.69
39.20607	468355.00	3770091.69	50.08664	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL20 ***
 INCLUDING SOURCE(S): RAIL20 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
10.38612	468330.00	3769866.69	11.44471	468355.00	3769866.69
8.56061	468380.00	3769866.69	9.42074	468405.00	3769866.69
12.77714	468430.00	3769866.69	7.82026	468330.00	3769891.69
10.37359	468355.00	3769891.69	11.49841	468380.00	3769891.69
8.53618	468405.00	3769891.69	9.37849	468430.00	3769891.69
12.82480	468330.00	3769916.69	14.41413	468355.00	3769916.69
10.34785	468380.00	3769916.69	11.49516	468405.00	3769916.69
16.46607	468430.00	3769916.69	9.35475	468330.00	3769941.69
12.85658	468355.00	3769941.69	14.48355	468380.00	3769941.69
10.29263	468405.00	3769941.69	11.47405	468430.00	3769941.69
16.49030	468330.00	3769966.69	19.00001	468355.00	3769966.69
12.78850	468380.00	3769966.69	14.47310	468405.00	3769966.69
22.17601	468430.00	3769966.69	11.37159	468330.00	3769991.69
16.40602	468355.00	3769991.69	18.94290	468380.00	3769991.69
22.08200	468330.00	3770016.69	26.41320	468355.00	3770016.69
31.91796	468380.00	3770016.69	18.74345	468330.00	3770041.69
21.75122	468355.00	3770041.69	26.10024	468380.00	3770041.69
31.35251	468330.00	3770066.69	39.19863	468355.00	3770066.69
49.85878	468380.00	3770066.69	25.76297	468330.00	3770091.69
31.38835	468355.00	3770091.69	38.86657	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL21 ***
 INCLUDING SOURCE(S): RAIL21 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
9.38921	468330.00	3769866.69	10.26592	468355.00	3769866.69
7.84103	468380.00	3769866.69	8.57598	468405.00	3769866.69
11.38699	468430.00	3769866.69	7.20182	468330.00	3769891.69
9.39810	468355.00	3769891.69	10.33770	468380.00	3769891.69
7.83263	468405.00	3769891.69	8.55429	468430.00	3769891.69
11.45970	468330.00	3769916.69	12.75135	468355.00	3769916.69
9.39555	468380.00	3769916.69	10.35929	468405.00	3769916.69
14.44266	468430.00	3769916.69	8.55162	468330.00	3769941.69
11.51842	468355.00	3769941.69	12.85061	468380.00	3769941.69
9.37334	468405.00	3769941.69	10.36862	468430.00	3769941.69
14.51710	468330.00	3769966.69	16.50454	468355.00	3769966.69
11.49984	468380.00	3769966.69	12.88598	468405.00	3769966.69
19.05315	468430.00	3769966.69	10.31538	468330.00	3769991.69
14.51113	468355.00	3769991.69	16.53496	468380.00	3769991.69
19.09228	468330.00	3770016.69	22.40565	468355.00	3770016.69
26.68897	468380.00	3770016.69	16.45625	468330.00	3770041.69
18.89707	468355.00	3770041.69	22.30835	468380.00	3770041.69
26.32814	468330.00	3770066.69	32.17711	468355.00	3770066.69
39.58693	468380.00	3770066.69	21.98335	468330.00	3770091.69
26.02218	468355.00	3770091.69	31.61599	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL22 ***
 INCLUDING SOURCE(S): RAIL22 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
8.50150	468330.00	3769866.69	9.23222	468355.00	3769866.69
7.18534	468380.00	3769866.69	7.81425	468405.00	3769866.69
10.17859	468430.00	3769866.69	6.63278	468330.00	3769891.69
8.52423	468355.00	3769891.69	9.31200	468380.00	3769891.69
7.18742	468405.00	3769891.69	7.80709	468430.00	3769891.69
10.26298	468330.00	3769916.69	11.31943	468355.00	3769916.69
8.53612	468380.00	3769916.69	9.34840	468405.00	3769916.69
12.71832	468430.00	3769916.69	7.81679	468330.00	3769941.69
10.33474	468355.00	3769941.69	11.43114	468380.00	3769941.69
8.53336	468405.00	3769941.69	9.37441	468430.00	3769941.69
12.81642	468330.00	3769966.69	14.40249	468355.00	3769966.69
10.34391	468380.00	3769966.69	11.48939	468405.00	3769966.69
16.45522	468430.00	3769966.69	9.35222	468330.00	3769991.69
12.85145	468355.00	3769991.69	14.47587	468380.00	3769991.69
16.55675	468330.00	3770016.69	19.11437	468355.00	3770016.69
22.45604	468380.00	3770016.69	14.46980	468330.00	3770041.69
16.47788	468355.00	3770041.69	19.14319	468380.00	3770041.69
22.31503	468330.00	3770066.69	26.65880	468355.00	3770066.69
32.14904	468380.00	3770066.69	18.95227	468330.00	3770091.69
22.01896	468355.00	3770091.69	26.30288	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL23 ***
 INCLUDING SOURCE(S): RAIL23 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
7.74646	468330.00	3769866.69	8.36215	468355.00	3769866.69
6.61807	468380.00	3769866.69	7.16043	468405.00	3769866.69
9.17059	468430.00	3769866.69	6.13694	468330.00	3769891.69
7.77936	468355.00	3769891.69	8.44641	468380.00	3769891.69
6.62802	468405.00	3769891.69	7.16458	468430.00	3769891.69
9.26167	468330.00	3769916.69	10.13676	468355.00	3769916.69
7.80160	468380.00	3769916.69	8.49314	468405.00	3769916.69
11.30986	468430.00	3769916.69	7.18259	468330.00	3769941.69
9.34110	468355.00	3769941.69	10.25459	468380.00	3769941.69
7.81125	468405.00	3769941.69	8.52977	468430.00	3769941.69
11.42117	468330.00	3769966.69	12.70680	468355.00	3769966.69
9.36703	468380.00	3769966.69	10.32616	468405.00	3769966.69
14.38849	468430.00	3769966.69	8.52698	468330.00	3769991.69
11.47927	468355.00	3769991.69	12.80450	468380.00	3769991.69
14.52068	468330.00	3770016.69	16.53667	468355.00	3770016.69
19.19425	468380.00	3770016.69	12.83942	468330.00	3770041.69
14.51472	468355.00	3770041.69	16.63081	468380.00	3770041.69
19.18877	468330.00	3770066.69	22.48294	468355.00	3770066.69
26.70191	468380.00	3770066.69	16.55574	468330.00	3770091.69
19.02065	468355.00	3770091.69	22.34509	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL24 ***
 INCLUDING SOURCE(S): RAIL24 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
7.07912	468330.00	3769866.69	7.60107	468355.00	3769866.69
6.10732	468380.00	3769866.69	6.57691	468405.00	3769866.69
8.29466	468430.00	3769866.69	5.68715	468330.00	3769891.69
7.11797	468355.00	3769891.69	7.68556	468380.00	3769891.69
6.12289	468405.00	3769891.69	6.58887	468430.00	3769891.69
8.38729	468330.00	3769916.69	9.11731	468355.00	3769916.69
7.14717	468380.00	3769916.69	7.73825	468405.00	3769916.69
10.10755	468430.00	3769916.69	6.61257	468330.00	3769941.69
8.47034	468355.00	3769941.69	9.23572	468380.00	3769941.69
7.16496	468405.00	3769941.69	7.78157	468430.00	3769941.69
10.22403	468330.00	3769966.69	11.27502	468355.00	3769966.69
8.50661	468380.00	3769966.69	9.31451	468405.00	3769966.69
12.66490	468430.00	3769966.69	7.79104	468330.00	3769991.69
10.29497	468355.00	3769991.69	11.38494	468380.00	3769991.69
12.81046	468330.00	3770016.69	14.41822	468355.00	3770016.69
16.55594	468380.00	3770016.69	11.44246	468330.00	3770041.69
12.84543	468355.00	3770041.69	14.54395	468380.00	3770041.69
16.62210	468330.00	3770066.69	19.15964	468355.00	3770066.69
22.44596	468380.00	3770066.69	14.54164	468330.00	3770091.69
16.56655	468355.00	3770091.69	19.15659	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL25 ***
 INCLUDING SOURCE(S): RAIL25 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
6.48062	468330.00	3769866.69	6.92513	468355.00	3769866.69
5.64085	468380.00	3769866.69	6.04861	468405.00	3769866.69
7.52122	468430.00	3769866.69	5.27333	468330.00	3769891.69
6.52187	468355.00	3769891.69	7.00646	468380.00	3769891.69
5.66016	468405.00	3769891.69	6.06535	468430.00	3769891.69
7.61144	468330.00	3769916.69	8.22369	468355.00	3769916.69
6.55524	468380.00	3769916.69	7.06155	468405.00	3769916.69
9.06293	468430.00	3769916.69	6.09282	468330.00	3769941.69
7.69492	468355.00	3769941.69	8.33849	468380.00	3769941.69
6.57844	468405.00	3769941.69	7.10873	468430.00	3769941.69
9.17873	468330.00	3769966.69	10.04335	468355.00	3769966.69
7.73743	468380.00	3769966.69	8.42018	468405.00	3769966.69
11.19867	468430.00	3769966.69	7.12606	468330.00	3769991.69
9.25614	468355.00	3769991.69	10.15708	468380.00	3769991.69
11.34730	468330.00	3770016.69	12.64026	468355.00	3770016.69
14.37448	468380.00	3770016.69	10.22668	468330.00	3770041.69
11.40425	468355.00	3770041.69	12.77915	468380.00	3770041.69
14.47587	468330.00	3770066.69	16.45522	468355.00	3770066.69
19.03986	468380.00	3770066.69	12.81683	468330.00	3770091.69
14.48957	468355.00	3770091.69	16.52189	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: QUARRY ***
 INCLUDING SOURCE(S): QUARRY ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
1.02742	468330.00	3769866.69	1.01526	468355.00	3769866.69
1.16333	468380.00	3769866.69	1.08376	468405.00	3769866.69
0.97034	468430.00	3769866.69	1.22380	468330.00	3769891.69
1.01525	468355.00	3769891.69	0.97471	468380.00	3769891.69
1.13873	468405.00	3769891.69	1.08214	468430.00	3769891.69
0.92471	468330.00	3769916.69	0.92329	468355.00	3769916.69
1.00367	468380.00	3769916.69	0.95241	468405.00	3769916.69
0.87417	468430.00	3769916.69	1.05979	468330.00	3769941.69
0.89059	468355.00	3769941.69	0.87047	468380.00	3769941.69
0.98711	468405.00	3769941.69	0.93387	468430.00	3769941.69
0.82221	468330.00	3769966.69	0.82990	468355.00	3769966.69
0.87189	468380.00	3769966.69	0.83594	468405.00	3769966.69
0.78976	468430.00	3769966.69	0.92066	468330.00	3769991.69
0.78738	468355.00	3769991.69	0.77904	468380.00	3769991.69
0.73479	468330.00	3770016.69	0.74580	468355.00	3770016.69
0.70716	468380.00	3770016.69	0.74401	468330.00	3770041.69
0.70006	468355.00	3770041.69	0.69364	468380.00	3770041.69
0.65894	468330.00	3770066.69	0.67495	468355.00	3770066.69
0.64502	468380.00	3770066.69	0.65906	468330.00	3770091.69
0.62347	468355.00	3770091.69	0.62849	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB1 ***
 INCLUDING SOURCE(S): FWYEB1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
63.96316	468330.00	3769866.69	67.31480	(12081924)	468355.00	3769866.69
57.79962	468380.00	3769866.69	60.77773	(12081924)	468405.00	3769866.69
67.19283	468430.00	3769866.69	55.16013	(12081924)	468330.00	3769891.69
60.71479	468355.00	3769891.69	63.81720	(08071622)	468380.00	3769891.69
55.29907	468405.00	3769891.69	57.84017	(10022319)	468430.00	3769891.69
63.72696	468330.00	3769916.69	67.19689	(12083021)	468355.00	3769916.69
57.88966	468380.00	3769916.69	60.69896	(12083021)	468405.00	3769916.69
67.00677	468430.00	3769916.69	55.27404	(12083021)	468330.00	3769941.69
60.19008	468355.00	3769941.69	63.33796	(08071224)	468380.00	3769941.69
55.31115	468405.00	3769941.69	57.67820	(12083021)	468430.00	3769941.69
63.92935	468330.00	3769966.69	67.10975	(08071224)	468355.00	3769966.69
58.34823	468380.00	3769966.69	61.06265	(08071224)	468405.00	3769966.69
67.47257	468430.00	3769966.69	55.77663	(08071224)	468330.00	3769991.69
60.93603	468355.00	3769991.69	64.05377	(12071224)	468380.00	3769991.69
62.78544	468330.00	3770016.69	65.39843	(12071224)	468355.00	3770016.69
64.23048	468380.00	3770016.69	60.25492	(12071224)	468330.00	3770041.69
58.62500	468355.00	3770041.69	61.42344	(10102318)	468380.00	3770041.69
60.62464	468330.00	3770066.69	63.90694	(10071722)	468355.00	3770066.69
63.09491	468380.00	3770066.69	57.95474	(10080321)	468330.00	3770091.69
57.90776	468355.00	3770091.69	60.49632	(10071722)	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB2 ***
 INCLUDING SOURCE(S): FWYEB2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
67.31884	468330.00	3769866.69	70.98375	(12081924)	468355.00	3769866.69
60.61596	468380.00	3769866.69	63.84911	(12081924)	468405.00	3769866.69
71.01416	468430.00	3769866.69	57.75678	(12081924)	468330.00	3769891.69
63.94712	468355.00	3769891.69	67.32670	(08071622)	468380.00	3769891.69
57.98223	468405.00	3769891.69	60.76375	(08071622)	468430.00	3769891.69
67.22391	468330.00	3769916.69	70.98560	(12083021)	468355.00	3769916.69
60.91050	468380.00	3769916.69	63.94627	(12083021)	468405.00	3769916.69
71.04435	468430.00	3769916.69	58.08873	(12083021)	468330.00	3769941.69
63.57526	468355.00	3769941.69	67.08961	(08071224)	468380.00	3769941.69
57.75934	468405.00	3769941.69	60.30889	(08071224)	468430.00	3769941.69
67.03364	468330.00	3769966.69	70.36813	(08071224)	468355.00	3769966.69
61.16725	468380.00	3769966.69	64.02340	(08071224)	468405.00	3769966.69
71.00267	468430.00	3769966.69	58.45716	(08071224)	468330.00	3769991.69
64.20973	468355.00	3769991.69	67.45605	(12071224)	468380.00	3769991.69
65.17481	468330.00	3770016.69	68.55447	(10102318)	468355.00	3770016.69
67.70825	468380.00	3770016.69	62.65685	(12071224)	468330.00	3770041.69
61.32485	468355.00	3770041.69	64.09388	(10102318)	468380.00	3770041.69
63.93508	468330.00	3770066.69	67.51457	(10071722)	468355.00	3770066.69
65.71609	468380.00	3770066.69	60.61271	(10080321)	468330.00	3770091.69
60.56627	468355.00	3770091.69	62.99187	(10071722)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB3 ***
 INCLUDING SOURCE(S): FWYEB3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
70.95602	468330.00	3769866.69	74.97421	(12081924)	468355.00	3769866.69
63.64844	(12081924)		67.16690	(12081924)	468405.00	3769866.69
75.15390	468380.00	3769866.69	60.54475	(12081924)	468330.00	3769891.69
67.42957	(12081924)		71.11785	(08071622)	468380.00	3769891.69
60.94554	468430.00	3769866.69	63.96589	(08071622)	468430.00	3769891.69
70.96645	(08071622)		75.04718	(12083021)	468355.00	3769916.69
64.13446	468355.00	3769891.69	67.41679	(12083021)	468405.00	3769916.69
75.34249	(08071622)		61.08849	(12083021)	468330.00	3769941.69
67.30132	468430.00	3769916.69	71.08378	(08071224)	468380.00	3769941.69
60.51483	(08071224)		63.78682	(08071224)	468430.00	3769941.69
70.35840	468330.00	3769966.69	74.86970	(12071224)	468355.00	3769966.69
64.09109	(12071224)		67.08529	(08071224)	468405.00	3769966.69
74.57082	468380.00	3769966.69	61.24374	(08071224)	468330.00	3769991.69
67.56841	(12071224)		70.92333	(12071224)	468380.00	3769991.69
68.47415	468355.00	3769991.69	72.33760	(10102318)	468355.00	3770016.69
71.29236	(10102318)		65.04055	(09061602)	468330.00	3770041.69
63.97948	468380.00	3770016.69	67.62153	(10080321)	468380.00	3770041.69
67.47128	(10080321)		70.93963	(10071722)	468355.00	3770066.69
68.96441	468330.00	3770066.69	63.98426	(10071722)	468330.00	3770091.69
62.99903	(09061821)		65.66815	(09061405)	468380.00	3770091.69
	468355.00	3770091.69				
	(10071722)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB4 ***
 INCLUDING SOURCE(S): FWYEB4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
74.80141	468330.00	3769866.69	79.20918	(12081924)	468355.00	3769866.69
66.82725	468380.00	3769866.69	70.65979	(12081924)	468405.00	3769866.69
79.52281	468430.00	3769866.69	63.45745	(12081924)	468330.00	3769891.69
71.08413	468355.00	3769891.69	75.10730	(08071622)	468380.00	3769891.69
64.03976	468405.00	3769891.69	67.31615	(08071622)	468430.00	3769891.69
74.85531	468330.00	3769916.69	79.27411	(12083021)	468355.00	3769916.69
67.47973	468380.00	3769916.69	71.02056	(12083021)	468405.00	3769916.69
79.80677	468430.00	3769916.69	64.19859	(12083021)	468330.00	3769941.69
71.17939	468355.00	3769941.69	75.23587	(08071224)	468380.00	3769941.69
63.90037	468405.00	3769941.69	67.40969	(08071224)	468430.00	3769941.69
74.81541	468330.00	3769966.69	79.61105	(12071224)	468355.00	3769966.69
67.03429	468380.00	3769966.69	70.50839	(12071224)	468405.00	3769966.69
78.02854	468430.00	3769966.69	64.06057	(08071224)	468330.00	3769991.69
70.89994	468355.00	3769991.69	74.32587	(12071224)	468380.00	3769991.69
72.09674	468330.00	3770016.69	75.97221	(10102318)	468355.00	3770016.69
75.46027	468380.00	3770016.69	68.34801	(10102318)	468330.00	3770041.69
67.40499	468355.00	3770041.69	71.02051	(10080321)	468380.00	3770041.69
70.71382	468330.00	3770066.69	73.95580	(10071722)	468355.00	3770066.69
72.83906	468380.00	3770066.69	67.35987	(10071722)	468330.00	3770091.69
65.64351	468355.00	3770091.69	68.80804	(10110218)	468380.00	3770091.69
	(09061405)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB5 ***
 INCLUDING SOURCE(S): FWYEB5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
79.32627	468330.00	3769866.69	84.22742	(11080723)	468355.00	3769866.69
70.52978	(11080723)		74.74731	(11080723)	468405.00	3769866.69
84.55997	468380.00	3769866.69	66.83031	(11080723)	468330.00	3769891.69
75.27263	(11080723)		79.69276	(11080723)	468380.00	3769891.69
67.56759	468430.00	3769866.69	71.14750	(11080723)	468430.00	3769891.69
79.28341	(08071622)		84.09351	(08071622)	468355.00	3769916.69
71.27128	468355.00	3769891.69	75.11454	(08071622)	468405.00	3769916.69
84.76083	(08071622)		67.71569	(08071622)	468330.00	3769941.69
75.48393	468405.00	3769891.69	79.84678	(12083021)	468380.00	3769941.69
67.65206	(12083021)		71.42800	(12083021)	468430.00	3769941.69
79.69861	468330.00	3769916.69	84.78744	(08071224)	468355.00	3769966.69
70.81078	(08071224)		75.11484	(08071224)	468405.00	3769966.69
81.62082	468380.00	3769966.69	67.11539	(12071224)	468330.00	3769991.69
74.42923	(12071224)		77.90212	(12071224)	468380.00	3769991.69
75.82780	468355.00	3769991.69	80.33593	(10080321)	468355.00	3770016.69
80.19347	(10102318)		72.07144	(10102318)	468330.00	3770041.69
70.93002	468380.00	3770016.69	75.47131	(10071722)	468380.00	3770041.69
73.85158	(10071722)		77.90919	(09061405)	468355.00	3770066.69
77.38810	468330.00	3770066.69	70.72553	(10071722)	468330.00	3770091.69
68.96536	(12081421)		72.86070	(08081422)	468380.00	3770091.69
	468355.00	3770091.69				
	(09061821)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB6 ***
 INCLUDING SOURCE(S): FWYEB6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
84.45296	468330.00	3769866.69	89.91554	(11080723)	468355.00	3769866.69
74.72273	(11080723)		79.37691	(11080723)	468405.00	3769866.69
90.12033	468380.00	3769866.69	70.65212	(11080723)	468330.00	3769891.69
79.86630	(11080723)		84.73761	(08071622)	468380.00	3769891.69
71.41467	468430.00	3769866.69	75.33716	(08071622)	468430.00	3769891.69
84.08708	(08071622)		89.32831	(12083021)	468355.00	3769916.69
75.37297	468355.00	3769891.69	79.54975	(12083021)	468405.00	3769916.69
90.04319	(08071622)		71.51485	(12083021)	468330.00	3769941.69
80.08778	468430.00	3769916.69	84.77231	(08071224)	468380.00	3769941.69
71.66881	(08071224)		75.72878	(08071224)	468430.00	3769941.69
84.84043	468405.00	3769941.69	90.20530	(12071224)	468355.00	3769966.69
75.41153	(08071224)		79.98740	(12071224)	468405.00	3769966.69
86.70569	468330.00	3769966.69	71.10590	(12071224)	468330.00	3769991.69
77.97035	(10102318)		81.53526	(09061602)	468380.00	3769991.69
80.29571	468355.00	3769991.69	85.31673	(10080321)	468355.00	3770016.69
84.72019	(12071224)		75.75380	(10102318)	468330.00	3770041.69
75.48197	468380.00	3770016.69	80.14771	(10071722)	468380.00	3770041.69
77.88080	(10071722)		82.57003	(08081422)	468355.00	3770066.69
81.83393	468330.00	3770066.69	73.87123	(11080721)	468330.00	3770091.69
73.05097	(12081421)		77.42429	(12081421)	468380.00	3770091.69
	468355.00	3770091.69				
	(08081422)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB7 ***
 INCLUDING SOURCE(S): FWYEB7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
89.86244	468330.00	3769866.69	95.95636	(10022319)	468355.00	3769866.69
79.09706	(11080723)		84.23456	(11080723)	468405.00	3769866.69
95.92014	468380.00	3769866.69	74.62207	(11080723)	468330.00	3769891.69
84.62745	(11080723)		89.98259	(08071622)	468380.00	3769891.69
75.37935	468430.00	3769866.69	79.66374	(08071622)	468430.00	3769891.69
89.08521	(08071622)		95.72921	(08071224)	468355.00	3769916.69
79.54689	468355.00	3769891.69	84.06156	(12083021)	468405.00	3769916.69
95.42776	(08071622)		75.38114	(12083021)	468330.00	3769941.69
84.76642	468430.00	3769916.69	89.75625	(08071224)	468380.00	3769941.69
75.77487	(12071224)		80.11403	(08071224)	468430.00	3769941.69
89.95110	468355.00	3769941.69	95.53302	(12071224)	468355.00	3769966.69
80.06176	(12071224)		84.87625	(12071224)	468405.00	3769966.69
91.94418	468430.00	3769966.69	75.51025	(12071224)	468330.00	3769991.69
81.51940	(10102318)		86.50312	(10102318)	468380.00	3769991.69
84.92049	468355.00	3769991.69	91.06634	(10071722)	468355.00	3770016.69
88.92488	(09061602)		80.08457	(10080321)	468330.00	3770041.69
79.84108	468380.00	3770016.69	84.32459	(10071722)	468380.00	3770041.69
82.39672	(10071722)		87.98925	(12081421)	468355.00	3770066.69
85.49731	468330.00	3770066.69	77.71779	(09061405)	468330.00	3770091.69
77.41333	(08071523)		81.54526	(12081421)	468380.00	3770091.69
	468355.00	3770091.69				
	(12081421)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB8 ***
 INCLUDING SOURCE(S): FWYEB8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
95.94134	468330.00	3769866.69	102.86024	(10022319)	468355.00	3769866.69
83.90720	468380.00	3769866.69	89.62429	(10022319)	468405.00	3769866.69
102.63852	468430.00	3769866.69	78.91337	(10022319)	468330.00	3769891.69
89.74908	468355.00	3769891.69	95.66259	(12083021)	468380.00	3769891.69
79.62045	468405.00	3769891.69	84.30307	(08071622)	468430.00	3769891.69
95.59649	468330.00	3769916.69	102.91309	(08071224)	468355.00	3769916.69
83.94908	468380.00	3769916.69	89.24471	(08071224)	468405.00	3769916.69
102.80668	468430.00	3769916.69	79.45803	(12083021)	468330.00	3769941.69
89.63046	468355.00	3769941.69	95.31074	(12071224)	468380.00	3769941.69
80.07048	468405.00	3769941.69	84.68953	(08071224)	468430.00	3769941.69
95.10153	468330.00	3769966.69	100.82744	(12071224)	468355.00	3769966.69
84.84113	468380.00	3769966.69	89.85843	(12071224)	468405.00	3769966.69
97.23189	468430.00	3769966.69	80.06646	(12071224)	468330.00	3769991.69
86.45062	468355.00	3769991.69	91.56695	(10102318)	468380.00	3769991.69
90.64841	468330.00	3770016.69	97.01518	(10071722)	468355.00	3770016.69
94.29536	468380.00	3770016.69	84.53494	(10080321)	468330.00	3770041.69
83.83308	468355.00	3770041.69	88.59391	(09061405)	468380.00	3770041.69
87.71081	468330.00	3770066.69	93.39300	(12081421)	468355.00	3770066.69
91.13556	468380.00	3770066.69	82.21237	(08081422)	468330.00	3770091.69
81.37836	468355.00	3770091.69	85.19861	(09080606)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB9 ***
 INCLUDING SOURCE(S): FWYEB9 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
103.10915	468330.00	3769866.69	110.94045	(10022319)	468355.00	3769866.69
89.60941	468380.00	3769866.69	96.00406	(10022319)	468405.00	3769866.69
110.76096	468430.00	3769866.69	84.04777	(10022319)	468330.00	3769891.69
95.94942	468355.00	3769891.69	102.93115	(12083021)	468380.00	3769891.69
84.51942	468405.00	3769891.69	89.68164	(08071622)	468430.00	3769891.69
103.02340	468330.00	3769916.69	111.11599	(08071224)	468355.00	3769916.69
89.64688	468380.00	3769916.69	96.00829	(08071224)	468405.00	3769916.69
111.04520	468430.00	3769916.69	84.10508	(12083021)	468330.00	3769941.69
95.73760	468355.00	3769941.69	102.91650	(12071224)	468380.00	3769941.69
84.82231	468405.00	3769941.69	89.74589	(08071224)	468430.00	3769941.69
100.57823	468330.00	3769966.69	106.57444	(10102318)	468355.00	3769966.69
90.00769	468380.00	3769966.69	95.20733	(12071224)	468405.00	3769966.69
104.17240	468430.00	3769966.69	85.01634	(12071224)	468330.00	3769991.69
91.68891	468355.00	3769991.69	97.23984	(10080321)	468380.00	3769991.69
96.79932	468330.00	3770016.69	102.92815	(10071722)	468355.00	3770016.69
101.13275	468380.00	3770016.69	90.65358	(10071722)	468330.00	3770041.69
88.47456	468355.00	3770041.69	94.17399	(10110218)	468380.00	3770041.69
93.28159	468330.00	3770066.69	98.35463	(09080606)	468355.00	3770066.69
96.14453	468380.00	3770066.69	87.78403	(12081421)	468330.00	3770091.69
85.34922	468355.00	3770091.69	91.06108	(10011018)	468380.00	3770091.69
	468330.00	37701523)				

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB10 ***
 INCLUDING SOURCE(S): FWYEB10 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
111.87600	468330.00	3769866.69	120.86986	(10022319)	468355.00	3769866.69
96.55748	468380.00	3769866.69	103.78774	(10022319)	468405.00	3769866.69
120.82153	468430.00	3769866.69	90.28775	(10022319)	468330.00	3769891.69
104.02814	468355.00	3769891.69	111.92643	(12083021)	468380.00	3769891.69
90.67555	468405.00	3769891.69	96.83436	(12083021)	468430.00	3769891.69
111.87320	468330.00	3769916.69	120.83286	(08071224)	468355.00	3769916.69
97.03608	468380.00	3769916.69	104.09057	(08071224)	468405.00	3769916.69
120.49552	468430.00	3769916.69	90.62519	(08071224)	468330.00	3769941.69
103.98282	468355.00	3769941.69	111.75819	(12071224)	468380.00	3769941.69
90.16636	468405.00	3769941.69	96.79634	(12071224)	468430.00	3769941.69
107.20688	468330.00	3769966.69	115.35970	(10102318)	468355.00	3769966.69
95.61376	468380.00	3769966.69	100.89347	(12071224)	468405.00	3769966.69
113.55251	468430.00	3769966.69	90.47418	(12071224)	468330.00	3769991.69
98.24076	468355.00	3769991.69	104.76299	(10071722)	468380.00	3769991.69
103.06559	468330.00	3770016.69	110.34869	(09061405)	468355.00	3770016.69
109.35696	468380.00	3770016.69	97.25938	(10071722)	468330.00	3770041.69
94.53857	468355.00	3770041.69	101.77095	(12081421)	468380.00	3770041.69
98.81742	468330.00	3770066.69	106.26411	(10011018)	468355.00	3770066.69
102.07538	468380.00	3770066.69	93.68556	(12081421)	468330.00	3770091.69
91.47579	468355.00	3770091.69	96.14912	(10011018)	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB11 ***
 INCLUDING SOURCE(S): FWYEB11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
122.38011	468330.00	3769866.69	132.98294	(08071622)	468355.00	3769866.69
104.70670	(08071622)					
132.99968	468380.00	3769866.69	112.95257	(10022319)	468405.00	3769866.69
113.64068	(10022319)					
98.40876	468430.00	3769866.69	97.56644	(10022319)	468330.00	3769891.69
122.14942	(12083021)					
105.47055	468355.00	3769891.69	122.71847	(12083021)	468380.00	3769891.69
101.85659	(12083021)					
124.03595	468405.00	3769891.69	105.44244	(12083021)	468430.00	3769891.69
106.61084	(12083021)					
111.32296	468330.00	3769916.69	132.18254	(08071224)	468355.00	3769916.69
117.37860	(08071224)					
102.91291	468380.00	3769916.69	113.39418	(08071224)	468405.00	3769916.69
107.07578	(08071224)					
109.33328	468430.00	3769916.69	98.28510	(08071224)	468330.00	3769941.69
96.97479	(12071224)					
	468355.00	3769941.69	121.75557	(12071224)	468380.00	3769941.69
	(12071224)					
	468405.00	3769941.69	105.36167	(12071224)	468430.00	3769941.69
	(12071224)					
	468330.00	3769966.69	125.60610	(10080321)	468355.00	3769966.69
	(10102318)					
	468380.00	3769966.69	108.57503	(10102318)	468405.00	3769966.69
	(12071224)					
	468430.00	3769966.69	96.52921	(12071224)	468330.00	3769991.69
	(10071722)					
	468355.00	3769991.69	115.12378	(10071722)	468380.00	3769991.69
	(10071722)					
	468330.00	3770016.69	120.69864	(08081422)	468355.00	3770016.69
	(09061821)					
	468380.00	3770016.69	104.13653	(10071722)	468330.00	3770041.69
	(08071523)					
	468355.00	3770041.69	110.45166	(12081421)	468380.00	3770041.69
	(12081421)					
	468330.00	3770066.69	113.53994	(09092721)	468355.00	3770066.69
	(10011018)					
	468380.00	3770066.69	99.92427	(08071523)	468330.00	3770091.69
	(10071222)					
	468355.00	3770091.69	102.98118	(09092721)	468380.00	3770091.69
	(09092721)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB12 ***
 INCLUDING SOURCE(S): FWYEB12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
133.73061	468330.00	3769866.69	146.05655	(08071622)	468355.00	3769866.69
113.24139	(08071622)					
145.25573	468380.00	3769866.69	122.83768	(08071622)	468405.00	3769866.69
123.23915	(08071622)					
106.07271	468430.00	3769866.69	105.02373	(08071622)	468330.00	3769891.69
132.33880	(12083021)					
113.90043	468355.00	3769891.69	133.53711	(12083021)	468380.00	3769891.69
141.19276	(12083021)					
122.21577	468405.00	3769891.69	113.99224	(12083021)	468430.00	3769891.69
105.84924	(12083021)					
126.00514	468330.00	3769916.69	144.43685	(12071224)	468355.00	3769916.69
109.00741	(08071224)					
132.90268	468380.00	3769916.69	122.66210	(08071224)	468405.00	3769916.69
115.78143	(08071224)					
120.92686	468430.00	3769916.69	105.95810	(08071224)	468330.00	3769941.69
127.08531	(12071224)					
110.49327	468355.00	3769941.69	131.26640	(12071224)	468380.00	3769941.69
113.73966	(12071224)					
118.08622	468405.00	3769941.69	113.73844	(12071224)	468430.00	3769941.69
103.19837	(12071224)					
	468330.00	3769966.69	136.75672	(10080321)	468355.00	3769966.69
	(10080321)					
	468380.00	3769966.69	116.86446	(10102318)	468405.00	3769966.69
	(10102318)					
	468430.00	3769966.69	101.96351	(12071224)	468330.00	3769991.69
	(11080721)					
	468355.00	3769991.69	124.22851	(10071722)	468380.00	3769991.69
	(10071722)					
	468330.00	3770016.69	131.56618	(12081421)	468355.00	3770016.69
	(12081421)					
	468380.00	3770016.69	111.58506	(09061821)	468330.00	3770041.69
	(10011018)					
	468355.00	3770041.69	117.51085	(08071523)	468380.00	3770041.69
	(12081421)					
	468330.00	3770066.69	121.38716	(09092721)	468355.00	3770066.69
	(09092721)					
	468380.00	3770066.69	107.19242	(10011018)	468330.00	3770091.69
	(12072121)					
	468355.00	3770091.69	109.40976	(10071222)	468380.00	3770091.69
	(09092721)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB13 ***
 INCLUDING SOURCE(S): FWYEB13 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

X-COORD (M) CONC (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
468330.00	3769866.69	161.45567	(08071622)	468355.00	3769866.69
146.98779 (08071622)					
468380.00	3769866.69	134.35289	(08071622)	468405.00	3769866.69
123.32055 (08071622)					
468430.00	3769866.69	113.90908	(08071622)	468330.00	3769891.69
159.49749 (08071224)					
468355.00	3769891.69	145.93938	(12083021)	468380.00	3769891.69
134.19605 (12083021)					
468405.00	3769891.69	123.71858	(12083021)	468430.00	3769891.69
114.75124 (12083021)					
468330.00	3769916.69	160.18904	(12071224)	468355.00	3769916.69
145.21288 (12071224)					
468380.00	3769916.69	132.91318	(08071224)	468405.00	3769916.69
123.22931 (08071224)					
468430.00	3769916.69	114.44697	(08071224)	468330.00	3769941.69
153.41849 (10102318)					
468355.00	3769941.69	141.24838	(12071224)	468380.00	3769941.69
131.74750 (12071224)					
468405.00	3769941.69	122.73009	(12071224)	468430.00	3769941.69
114.26257 (12071224)					
468330.00	3769966.69	151.15954	(10071722)	468355.00	3769966.69
137.49735 (10071722)					
468380.00	3769966.69	126.91252	(10080321)	468405.00	3769966.69
117.29749 (10102318)					
468430.00	3769966.69	109.47650	(10102318)	468330.00	3769991.69
145.53604 (08081422)					
468355.00	3769991.69	133.23701	(11080721)	468380.00	3769991.69
124.91424 (10071722)					
468330.00	3770016.69	141.36250	(08071523)	468355.00	3770016.69
131.80452 (12081421)					
468380.00	3770016.69	121.46447	(12081421)	468330.00	3770041.69
136.48562 (09092721)					
468355.00	3770041.69	127.18490	(10011018)	468380.00	3770041.69
117.75771 (08071523)					
468330.00	3770066.69	131.01546	(12072121)	468355.00	3770066.69
121.48822 (09092721)					
468380.00	3770066.69	114.10468	(09092721)	468330.00	3770091.69
125.91605 (09090921)					
468355.00	3770091.69	118.29504	(12072121)	468380.00	3770091.69
109.74968 (10071222)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB14 ***
 INCLUDING SOURCE(S): FWYEB14 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
161.78143	468330.00	3769866.69	178.81271	(08071622)	468355.00	3769866.69
134.33322	(08071622)					
177.51827	468380.00	3769866.69	147.06678	(08071622)	468405.00	3769866.69
145.93203	(08071622)					
123.97918	468430.00	3769866.69	123.54027	(08071622)	468330.00	3769891.69
160.28082	(08071224)					
132.97267	468355.00	3769891.69	159.98623	(08071224)	468380.00	3769891.69
118.31444	(12083021)					
146.42919	468405.00	3769891.69	134.08689	(12083021)	468430.00	3769891.69
135.21164	(12083021)					
141.08504	468330.00	3769916.69	176.98124	(12071224)	468355.00	3769916.69
127.21810	(12071224)					
133.43360	468380.00	3769916.69	145.76218	(12071224)	468405.00	3769916.69
146.42919	(08071224)					
126.91569	468430.00	3769916.69	123.34638	(08071224)	468330.00	3769941.69
130.98468	(10080321)					
141.10972	468355.00	3769941.69	153.30379	(10102318)	468380.00	3769941.69
135.21164	(12071224)					
146.42919	468405.00	3769941.69	131.72061	(12071224)	468430.00	3769941.69
126.91569	(12071224)					
130.98468	468330.00	3769966.69	164.73282	(10071722)	468355.00	3769966.69
141.10972	(10071722)					
126.91569	468380.00	3769966.69	138.02693	(10071722)	468405.00	3769966.69
130.98468	(10080321)					
146.42919	468430.00	3769966.69	117.34498	(10080321)	468330.00	3769991.69
126.91569	(12081421)					
130.98468	468355.00	3769991.69	145.52384	(08081422)	468380.00	3769991.69
146.42919	(09081621)					
126.91569	468330.00	3770016.69	154.09210	(10011018)	468355.00	3770016.69
130.98468	(08071523)					
146.42919	468380.00	3770016.69	131.62844	(12081421)	468330.00	3770041.69
126.91569	(10071222)					
130.98468	468355.00	3770041.69	136.24160	(09092721)	468380.00	3770041.69
146.42919	(10011018)					
126.91569	468330.00	3770066.69	141.35407	(12072121)	468355.00	3770066.69
130.98468	(12072121)					
146.42919	468380.00	3770066.69	121.24446	(09092721)	468330.00	3770091.69
126.91569	(09071824)					
130.98468	468355.00	3770091.69	125.75005	(09090921)	468380.00	3770091.69
146.42919	(12072121)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB15 ***
 INCLUDING SOURCE(S): FWYEB15 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
178.11855	468330.00	3769866.69	198.19289	(08071622)	468355.00	3769866.69
146.17083	(08071622)		160.92163	(08071622)	468405.00	3769866.69
197.27872	468380.00	3769866.69	133.79717	(08071622)	468330.00	3769891.69
159.69133	(08071622)		177.03459	(08071622)	468380.00	3769891.69
133.55343	468430.00	3769866.69	144.84777	(12083021)	468430.00	3769891.69
175.89200	(08071224)		194.16855	(12071224)	468355.00	3769916.69
145.59635	468355.00	3769891.69	159.91747	(12071224)	468405.00	3769916.69
185.02817	(08071224)		132.79117	(12071224)	468330.00	3769941.69
152.77394	468430.00	3769916.69	166.99448	(10080321)	468380.00	3769941.69
131.09834	(10071722)		140.24306	(12071224)	468430.00	3769941.69
163.25696	468355.00	3769941.69	178.42019	(09061821)	468355.00	3769966.69
137.72527	(10071722)		150.50715	(10071722)	468405.00	3769966.69
172.56883	468380.00	3769966.69	126.80778	(10080321)	468330.00	3769991.69
145.03186	(10071722)		159.10415	(12081421)	468380.00	3769991.69
153.00584	468430.00	3769991.69	165.87486	(09092721)	468355.00	3770016.69
159.48236	(10011018)		140.17198	(08071523)	468330.00	3770041.69
135.27514	468380.00	3770016.69	145.44169	(10071222)	468380.00	3770041.69
140.36175	(09092721)		151.99011	(11082421)	468355.00	3770066.69
144.36991	468330.00	3770066.69	130.42782	(12072121)	468330.00	3770091.69
125.27093	(12072121)		134.45123	(09071824)	468380.00	3770091.69
	468355.00	3770091.69				
	(09090921)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB16 ***
 INCLUDING SOURCE(S): FWYEB16 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
196.25094	468330.00	3769866.69	220.07772	(12083021)	468355.00	3769866.69
159.10780	(08071622)					
218.59866	468380.00	3769866.69	176.18216	(08071622)	468405.00	3769866.69
175.95746	(08071622)					
144.36375	468430.00	3769866.69	144.95270	(08071622)	468330.00	3769891.69
191.25805	(08071224)					
158.96975	468355.00	3769891.69	195.63696	(08071224)	468380.00	3769891.69
139.19268	(08071224)					
176.32388	468405.00	3769891.69	158.80585	(08071224)	468430.00	3769891.69
149.14480	(08071224)					
188.59867	468330.00	3769916.69	210.29352	(12071224)	468355.00	3769916.69
157.51926	(12071224)					
163.29582	468380.00	3769916.69	174.36045	(12071224)	468405.00	3769916.69
133.26318	(12071224)					
170.82810	468430.00	3769916.69	145.06171	(12071224)	468330.00	3769941.69
143.58546	(10071722)					
152.52749	468355.00	3769941.69	183.08582	(10071722)	468380.00	3769941.69
113.26318	(10080321)					
176.32388	468405.00	3769941.69	151.52136	(10102318)	468430.00	3769941.69
149.14480	(10102318)					
188.59867	468330.00	3769966.69	197.37633	(12081421)	468355.00	3769966.69
157.51926	(08081422)					
163.29582	468380.00	3769966.69	161.13138	(10071722)	468405.00	3769966.69
133.26318	(10071722)					
170.82810	468430.00	3769966.69	136.93165	(10071722)	468330.00	3769991.69
143.58546	(10011018)					
152.52749	468355.00	3769991.69	170.86732	(10011018)	468380.00	3769991.69
113.26318	(12081421)					
176.32388	468330.00	3770016.69	178.41933	(12072121)	468355.00	3770016.69
149.14480	(09092721)					
188.59867	468380.00	3770016.69	151.13881	(10011018)	468330.00	3770041.69
157.51926	(11082421)					
163.29582	468355.00	3770041.69	157.40688	(12072121)	468380.00	3770041.69
133.26318	(10071222)					
170.82810	468330.00	3770066.69	161.97960	(12071122)	468355.00	3770066.69
143.58546	(11082421)					
152.52749	468380.00	3770066.69	138.55898	(12072121)	468330.00	3770091.69
113.26318	(11073121)					
176.32388	468355.00	3770091.69	142.69693	(12071122)	468380.00	3770091.69
149.14480	(09071824)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB17 ***
 INCLUDING SOURCE(S): FWYEB17 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
220.27042	468330.00	3769866.69	249.98832	(12083021)	468355.00	3769866.69
175.00462	468380.00	3769866.69	195.37961	(12083021)	468405.00	3769866.69
248.24405	468430.00	3769866.69	158.58781	(08071622)	468330.00	3769891.69
195.02918	468355.00	3769891.69	217.56617	(12071224)	468380.00	3769891.69
159.10036	468405.00	3769891.69	175.50653	(08071224)	468430.00	3769891.69
208.87298	468330.00	3769916.69	234.12255	(10102318)	468355.00	3769916.69
173.78999	468380.00	3769916.69	190.08855	(12071224)	468405.00	3769916.69
225.71617	468430.00	3769916.69	158.80928	(12071224)	468330.00	3769941.69
183.26531	468355.00	3769941.69	203.21761	(10071722)	468380.00	3769941.69
150.99316	468405.00	3769941.69	165.50614	(10080321)	468430.00	3769941.69
196.12259	468330.00	3769966.69	217.47649	(10011018)	468355.00	3769966.69
160.34418	468380.00	3769966.69	176.33132	(08081422)	468405.00	3769966.69
204.09619	468430.00	3769966.69	148.73147	(10071722)	468330.00	3769991.69
170.79195	468355.00	3769991.69	186.93879	(10011018)	468380.00	3769991.69
177.48792	468330.00	3770016.69	194.98172	(10071101)	468355.00	3770016.69
184.44511	468380.00	3770016.69	161.92885	(09092721)	468330.00	3770041.69
156.15906	468355.00	3770041.69	169.70584	(11082421)	468380.00	3770041.69
160.96367	468330.00	3770066.69	173.44416	(11073121)	468355.00	3770066.69
162.43206	468380.00	3770066.69	149.18853	(11082421)	468330.00	3770091.69
142.00203	468355.00	3770091.69	151.26602	(11073121)	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB18 ***
 INCLUDING SOURCE(S): FWYEB18 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
249.48435	468330.00	3769866.69	285.63532	(12083021)	468355.00	3769866.69
194.68225	468380.00	3769866.69	219.52790	(12083021)	468405.00	3769866.69
283.39390	468430.00	3769866.69	174.55625	(12083021)	468330.00	3769891.69
218.00440	468355.00	3769891.69	248.01429	(12071224)	468380.00	3769891.69
175.37978	468405.00	3769891.69	193.89122	(08071224)	468430.00	3769891.69
232.31732	468330.00	3769916.69	266.00036	(10071722)	468355.00	3769916.69
188.71159	468380.00	3769916.69	208.41900	(10102318)	468405.00	3769916.69
255.29999	468430.00	3769916.69	173.02586	(12071224)	468330.00	3769941.69
202.35570	468355.00	3769941.69	224.09919	(10110218)	468380.00	3769941.69
165.17042	468405.00	3769941.69	183.24740	(10071722)	468430.00	3769941.69
216.46282	468330.00	3769966.69	240.83649	(10011018)	468355.00	3769966.69
176.19137	468380.00	3769966.69	195.52038	(12081421)	468405.00	3769966.69
227.42886	468430.00	3769966.69	159.98008	(09061405)	468330.00	3769991.69
185.72082	468355.00	3769991.69	202.86863	(10102919)	468380.00	3769991.69
193.55936	468330.00	3770016.69	213.56890	(09071824)	468355.00	3770016.69
199.67000	468380.00	3770016.69	176.66023	(12082501)	468330.00	3770041.69
168.41818	468355.00	3770041.69	183.05602	(12071122)	468380.00	3770041.69
171.93792	468330.00	3770066.69	185.71472	(08070822)	468355.00	3770066.69
172.50016	468380.00	3770066.69	159.98215	(12071122)	468330.00	3770091.69
150.28009	468355.00	3770091.69	161.03463	(08070822)	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB19 ***
 INCLUDING SOURCE(S): FWYEB19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
284.30369	468330.00	3769866.69	333.45793	(08071224)	468355.00	3769866.69
218.15269	(08071224)					
321.13540	468380.00	3769866.69	247.87338	(12083021)	468405.00	3769866.69
247.47151	(12083021)					
193.22811	468430.00	3769866.69	194.33196	(12083021)	468330.00	3769891.69
159.97849	(12071224)					
183.05774	468355.00	3769891.69	281.65361	(12071224)	468380.00	3769891.69
185.85445	(12071224)					
181.63166	468405.00	3769891.69	217.82659	(12071224)	468430.00	3769891.69
183.94739	(12071224)					
181.63166	468330.00	3769916.69	301.91646	(09061405)	468355.00	3769916.69
183.94739	(10071722)					
181.63166	468380.00	3769916.69	232.01236	(10080321)	468405.00	3769916.69
181.63166	(10102318)					
181.63166	468430.00	3769916.69	187.15286	(12071224)	468330.00	3769941.69
181.63166	(10011018)					
181.63166	468355.00	3769941.69	253.31978	(12081421)	468380.00	3769941.69
181.63166	(10110218)					
181.63166	468405.00	3769941.69	201.32036	(10071722)	468430.00	3769941.69
181.63166	(10071722)					
181.63166	468330.00	3769966.69	268.32273	(12082501)	468355.00	3769966.69
181.63166	(10011018)					
181.63166	468380.00	3769966.69	216.05066	(10011018)	468405.00	3769966.69
181.63166	(12081421)					
181.63166	468430.00	3769966.69	176.32846	(12081421)	468330.00	3769991.69
181.63166	(11082421)					
181.63166	468355.00	3769991.69	225.38654	(12082501)	468380.00	3769991.69
181.63166	(10102919)					
181.63166	468330.00	3770016.69	232.80128	(11072702)	468355.00	3770016.69
181.63166	(12082602)					
181.63166	468380.00	3770016.69	192.22329	(10071101)	468330.00	3770041.69
181.63166	(08070822)					
181.63166	468355.00	3770041.69	197.66002	(11073121)	468380.00	3770041.69
181.63166	(12071122)					
181.63166	468330.00	3770066.69	198.54823	(09082321)	468355.00	3770066.69
181.63166	(08070822)					
181.63166	468380.00	3770066.69	170.51764	(11073121)	468330.00	3770091.69
181.63166	(09111019)					
181.63166	468355.00	3770091.69	171.02174	(09082321)	468380.00	3770091.69
181.63166	(08070822)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB20 ***
 INCLUDING SOURCE(S): FWYEB20 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
333.50654	468330.00	3769866.69	395.34908	(08071224)	468355.00	3769866.69
245.44150	(08071224)		284.33354	(08071224)	468405.00	3769866.69
368.89972	468380.00	3769866.69	217.17371	(12083021)	468330.00	3769891.69
279.48927	(12083021)		316.93831	(12071224)	468380.00	3769891.69
218.15010	468430.00	3769866.69	246.12784	(12071224)	468430.00	3769891.69
299.66885	(10102318)		350.75698	(11102419)	468355.00	3769916.69
231.57009	468355.00	3769891.69	263.91138	(10071722)	468405.00	3769916.69
323.88394	(12071224)		206.84160	(10102318)	468330.00	3769941.69
252.40861	468430.00	3769916.69	286.89417	(10011018)	468380.00	3769941.69
200.06038	(11082721)		223.15444	(08081422)	468430.00	3769941.69
266.67163	468355.00	3769941.69	302.06229	(10071101)	468355.00	3769966.69
215.42639	(12081421)		236.63088	(09092721)	468405.00	3769966.69
276.84763	468405.00	3769941.69	193.81599	(12081421)	468330.00	3769991.69
224.00397	(10071722)		247.53888	(12091421)	468380.00	3769991.69
230.40413	468430.00	3769966.69	253.88495	(09093003)	468355.00	3770016.69
232.39348	(08062701)		209.45467	(12082602)	468330.00	3770041.69
195.52917	468355.00	3769991.69	212.88730	(09093003)	468380.00	3770041.69
196.71340	(12082501)		216.47223	(09111019)	468355.00	3770066.69
195.29201	468380.00	3770016.69	182.26958	(08070822)	468330.00	3770091.69
170.09158	(11072702)		184.61104	(09111019)	468380.00	3770091.69
	468330.00	3770066.69				
	(09082321)					
	468380.00	3770066.69				
	(08071524)					
	468355.00	3770091.69				
	(09082321)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB21 ***
 INCLUDING SOURCE(S): FWYEB21 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
391.52597	468330.00	3769866.69	477.24618	(12071224)	468355.00	3769866.69
282.46006	(08071224)					
436.04915	468380.00	3769866.69	330.71009	(08071224)	468405.00	3769866.69
313.90856	(08071224)					
244.65882	468430.00	3769866.69	244.79150	(08071224)	468330.00	3769891.69
183.33516	(10071722)					
261.96032	468355.00	3769891.69	365.38483	(09052524)	468380.00	3769891.69
297.33725	(10102318)					
234.53140	468405.00	3769891.69	275.38366	(12071224)	468430.00	3769891.69
205.59950	(12071224)					
214.00725	468330.00	3769916.69	409.25990	(10011018)	468355.00	3769916.69
209.82408	(11102419)					
205.59950	468380.00	3769916.69	297.40975	(10110218)	468405.00	3769916.69
183.33516	(10071722)					
205.59950	468430.00	3769916.69	231.12321	(10071722)	468330.00	3769941.69
205.59950	(12082501)					
205.59950	468355.00	3769941.69	319.56099	(10102919)	468380.00	3769941.69
205.59950	(10011018)					
205.59950	468405.00	3769941.69	250.18273	(12081421)	468430.00	3769941.69
205.59950	(12081421)					
205.59950	468330.00	3769966.69	337.98569	(08062701)	468355.00	3769966.69
205.59950	(10071101)					
205.59950	468380.00	3769966.69	265.01681	(12082501)	468405.00	3769966.69
205.59950	(09092721)					
205.59950	468430.00	3769966.69	213.99223	(10011018)	468330.00	3769991.69
205.59950	(09093003)					
205.59950	468355.00	3769991.69	272.84646	(11072702)	468380.00	3769991.69
205.59950	(12091421)					
205.59950	468330.00	3770016.69	276.32135	(12112919)	468355.00	3770016.69
205.59950	(09093003)					
205.59950	468380.00	3770016.69	227.49029	(11072702)	468330.00	3770041.69
205.59950	(09111019)					
205.59950	468355.00	3770041.69	229.52565	(12112919)	468380.00	3770041.69
205.59950	(09093003)					
205.59950	468330.00	3770066.69	225.98907	(08071524)	468355.00	3770066.69
205.59950	(09111019)					
205.59950	468380.00	3770066.69	194.72125	(12112919)	468330.00	3770091.69
205.59950	(08082823)					
205.59950	468355.00	3770091.69	193.00231	(08071524)	468380.00	3770091.69
205.59950	(09111019)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB22 ***
 INCLUDING SOURCE(S): FWYEB22 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
471.58594	468330.00	3769866.69	579.07113	(12071224)	468355.00	3769866.69
325.47792	(12071224)					
524.86731	468380.00	3769866.69	386.86496	(12071224)	468405.00	3769866.69
271.34760	(08071224)					
400.42524	468430.00	3769866.69	280.09623	(08071224)	468330.00	3769891.69
294.68427	(11102419)					
262.40209	468355.00	3769891.69	428.81655	(09061405)	468380.00	3769891.69
331.40242	(09052524)					
225.93069	468405.00	3769891.69	308.88836	(10102318)	468430.00	3769891.69
221.86747	(12071224)					
213.21412	468330.00	3769916.69	473.13131	(12082501)	468355.00	3769916.69
190.78784	(10011018)					
	468380.00	3769916.69	341.88390	(11102419)	468405.00	3769916.69
	(10110218)					
	468430.00	3769916.69	258.75912	(10071722)	468330.00	3769941.69
	(12082602)					
	468355.00	3769941.69	364.81736	(10071101)	468380.00	3769941.69
	(10102919)					
	468405.00	3769941.69	281.29886	(10011018)	468430.00	3769941.69
	(12111521)					
	468330.00	3769966.69	375.84449	(09093003)	468355.00	3769966.69
	(08062701)					
	468380.00	3769966.69	292.91371	(10071101)	468405.00	3769966.69
	(12082501)					
	468430.00	3769966.69	231.93338	(11082721)	468330.00	3769991.69
	(08112519)					
	468355.00	3769991.69	297.99339	(09093003)	468380.00	3769991.69
	(11072702)					
	468330.00	3770016.69	299.38210	(09111019)	468355.00	3770016.69
	(12112919)					
	468380.00	3770016.69	245.10423	(09093003)	468330.00	3770041.69
	(08093020)					
	468355.00	3770041.69	249.43420	(09111019)	468380.00	3770041.69
	(12112919)					
	468330.00	3770066.69	236.71354	(08082823)	468355.00	3770066.69
	(08071524)					
	468380.00	3770066.69	211.20147	(09111019)	468330.00	3770091.69
	(11040421)					
	468355.00	3770091.69	202.50829	(08082823)	468380.00	3770091.69
	(08071524)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB23 ***
 INCLUDING SOURCE(S): FWYEB23 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
570.93099	468330.00	3769866.69	718.31989	(09052524)	468355.00	3769866.69
384.82832	(12071224)					
645.29737	468380.00	3769866.69	467.02981	(12071224)	468405.00	3769866.69
426.92090	(12071224)					
307.37799	468430.00	3769866.69	323.35625	(08071224)	468330.00	3769891.69
468.32866	(10011018)					
340.01433	468355.00	3769891.69	521.20967	(11102419)	468380.00	3769891.69
295.25515	(09061405)					
293.84360	468405.00	3769891.69	357.25045	(10071722)	468430.00	3769891.69
280.24305	(10102318)					
245.96708	468330.00	3769916.69	562.67811	(12082602)	468355.00	3769916.69
233.55535	(12082501)					
226.07001	468380.00	3769916.69	397.58395	(10011018)	468405.00	3769916.69
201.14747	(11102419)					
	468430.00	3769916.69	293.72928	(10110218)	468330.00	3769941.69
	(09093003)					
	468355.00	3769941.69	418.20399	(08062701)	468380.00	3769941.69
	(10071101)					
	468405.00	3769941.69	314.91915	(10102919)	468430.00	3769941.69
	(10011018)					
	468330.00	3769966.69	427.79964	(09111019)	468355.00	3769966.69
	(09093003)					
	468380.00	3769966.69	329.15891	(08062701)	468405.00	3769966.69
	(12091421)					
	468430.00	3769966.69	261.29669	(12082501)	468330.00	3769991.69
	(11070222)					
	468355.00	3769991.69	331.56117	(08112519)	468380.00	3769991.69
	(09093003)					
	468330.00	3770016.69	320.61272	(08093020)	468355.00	3770016.69
	(09111019)					
	468380.00	3770016.69	268.48917	(08112519)	468330.00	3770041.69
	(08070122)					
	468355.00	3770041.69	261.50664	(08093020)	468380.00	3770041.69
	(09111019)					
	468330.00	3770066.69	251.03688	(11101505)	468355.00	3770066.69
	(08093020)					
	468380.00	3770066.69	219.36340	(08071524)	468330.00	3770091.69
	(11090519)					
	468355.00	3770091.69	211.16332	(11040421)	468380.00	3770091.69
	(08082823)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB24 ***
 INCLUDING SOURCE(S): FWYEB24 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
718.45682	468330.00	3769866.69	966.95226	(11102419)	468355.00	3769866.69
464.34212	(09052524)					
815.44231	468380.00	3769866.69	565.18910	(10102318)	468405.00	3769866.69
521.48949	(12071224)					
360.77181	468430.00	3769866.69	386.73312	(12071224)	468330.00	3769891.69
559.66139	(10071101)					
397.33702	468355.00	3769891.69	641.55289	(10011018)	468380.00	3769891.69
571.50099	(11102419)					
419.39616	468405.00	3769891.69	426.48282	(09061405)	468430.00	3769891.69
317.18941	(10071722)					
249.35562	468330.00	3769916.69	672.64172	(09093003)	468355.00	3769916.69
234.74208	(12082602)					
210.81078	468380.00	3769916.69	470.72062	(12082501)	468405.00	3769916.69
	(10011018)					
	468430.00	3769916.69	341.51407	(10011018)	468330.00	3769941.69
	(09111019)					
	468355.00	3769941.69	481.21328	(09093003)	468380.00	3769941.69
	(08062701)					
	468405.00	3769941.69	364.11889	(10071101)	468430.00	3769941.69
	(12082501)					
	468330.00	3769966.69	471.13830	(08093020)	468355.00	3769966.69
	(09111019)					
	468380.00	3769966.69	368.70488	(12120207)	468405.00	3769966.69
	(11072702)					
	468430.00	3769966.69	292.26055	(12091421)	468330.00	3769991.69
	(08070122)					
	468355.00	3769991.69	360.55495	(11070222)	468380.00	3769991.69
	(09111019)					
	468330.00	3770016.69	344.81173	(11101505)	468355.00	3770016.69
	(08093020)					
	468380.00	3770016.69	290.62689	(09111019)	468330.00	3770041.69
	(11090519)					
	468355.00	3770041.69	278.37947	(11040421)	468380.00	3770041.69
	(08093020)					
	468330.00	3770066.69	264.66710	(12081621)	468355.00	3770066.69
	(11101505)					
	468380.00	3770066.69	231.85410	(08082823)	468330.00	3770091.69
	(09030220)					
	468355.00	3770091.69	224.77444	(11090519)	468380.00	3770091.69
	(11040421)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB25 ***
 INCLUDING SOURCE(S): FWYEB25 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
958.42515	468330.00	3769866.69	1503.79730	(12061206)	468355.00	3769866.69
556.27501	(11102419)					
1051.16203	468380.00	3769866.69	710.70498	(10090906)	468405.00	3769866.69
633.47790	(10102318)					
425.81948	468430.00	3769866.69	458.97544	(12071224)	468330.00	3769891.69
223.22366	(11061607)					
	468355.00	3769891.69	810.43420	(11061607)	468380.00	3769891.69
	(11082721)					
	468405.00	3769891.69	515.32095	(10011018)	468430.00	3769891.69
	(10110218)					
	468330.00	3769916.69	791.36912	(12081822)	468355.00	3769916.69
	(12120207)					
	468380.00	3769916.69	554.55675	(12082602)	468405.00	3769916.69
	(12082501)					
	468430.00	3769916.69	393.20653	(10011018)	468330.00	3769941.69
	(08070122)					
	468355.00	3769941.69	559.50216	(09111019)	468380.00	3769941.69
	(12120207)					
	468405.00	3769941.69	416.56298	(08062701)	468430.00	3769941.69
	(10071101)					
	468330.00	3769966.69	515.51728	(11090519)	468355.00	3769966.69
	(08093020)					
	468380.00	3769966.69	422.19018	(09111019)	468405.00	3769966.69
	(12120207)					
	468430.00	3769966.69	327.65349	(11072702)	468330.00	3769991.69
	(11090519)					
	468355.00	3769991.69	388.87734	(08070122)	468380.00	3769991.69
	(11070222)					
	468330.00	3770016.69	364.73230	(09030220)	468355.00	3770016.69
	(11101505)					
	468380.00	3770016.69	312.48470	(08093020)	468330.00	3770041.69
	(09051801)					
	468355.00	3770041.69	300.15874	(11090519)	468380.00	3770041.69
	(11040421)					
	468330.00	3770066.69	276.56264	(12071303)	468355.00	3770066.69
	(12081621)					
	468380.00	3770066.69	246.89376	(11101505)	468330.00	3770091.69
	(12071303)					
	468355.00	3770091.69	232.04466	(09030220)	468380.00	3770091.69
	(11090519)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB26 ***
 INCLUDING SOURCE(S): FWYEB26 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
1462.63253	468330.00	3769866.69	2317.76396	(09042707)	468355.00	3769866.69
707.51771	(12061206)					
1263.38272	468380.00	3769866.69	950.73781	(10011018)	468405.00	3769866.69
808.13575	(09061405)					
519.88370	468430.00	3769866.69	554.85191	(09052524)	468330.00	3769891.69
230.59069	(08070122)					
360.15849	468355.00	3769891.69	1031.71571	(09042707)	468380.00	3769891.69
317.59526	(11061607)					
297.30685	468405.00	3769891.69	631.88930	(10102919)	468430.00	3769891.69
274.42328	(10011018)					
241.16867	468330.00	3769916.69	926.71813	(11090519)	468355.00	3769916.69
230.59069	(11070222)					
241.16867	468380.00	3769916.69	657.56139	(12120207)	468405.00	3769916.69
241.16867	(08062701)					
241.16867	468430.00	3769916.69	467.67919	(12082501)	468330.00	3769941.69
241.16867	(09030220)					
241.16867	468355.00	3769941.69	620.10164	(08070122)	468380.00	3769941.69
241.16867	(09111019)					
241.16867	468405.00	3769941.69	476.13843	(12120207)	468430.00	3769941.69
241.16867	(11072702)					
241.16867	468330.00	3769966.69	559.54000	(12071303)	468355.00	3769966.69
241.16867	(11090519)					
241.16867	468380.00	3769966.69	462.16332	(08093020)	468405.00	3769966.69
241.16867	(09111019)					
241.16867	468430.00	3769966.69	365.43679	(12120207)	468330.00	3769991.69
241.16867	(12071303)					
241.16867	468355.00	3769991.69	425.34876	(11090519)	468380.00	3769991.69
241.16867	(08070122)					
241.16867	468330.00	3770016.69	380.56626	(12071303)	468355.00	3770016.69
241.16867	(09030220)					
241.16867	468380.00	3770016.69	336.07937	(11101505)	468330.00	3770041.69
241.16867	(12071303)					
241.16867	468355.00	3770041.69	307.83683	(12071303)	468380.00	3770041.69
241.16867	(11090519)					
241.16867	468330.00	3770066.69	274.96742	(11070602)	468355.00	3770066.69
241.16867	(12071303)					
241.16867	468380.00	3770066.69	259.74563	(09030220)	468330.00	3770091.69
241.16867	(11070602)					
241.16867	468355.00	3770091.69	243.34501	(12071303)	468380.00	3770091.69
241.16867	(09030220)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB27 ***
 INCLUDING SOURCE(S): FWYEB27 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
2241.80238	468330.00	3769866.69	2441.40102	(10122208)	468355.00	3769866.69
947.55779	(09042707)					
1455.72669	468380.00	3769866.69	1421.40155	(11061607)	468405.00	3769866.69
636.76620	(10011018)					
659.25522	468430.00	3769866.69	709.03457	(09061405)	468330.00	3769891.69
422.76335	(12071303)					
375.61233	468355.00	3769891.69	1252.52313	(08070122)	468380.00	3769891.69
323.18385	(12112919)					
305.46660	468405.00	3769891.69	801.87883	(11061607)	468430.00	3769891.69
272.53514	(12082501)					
242.52553	468330.00	3769916.69	980.59565	(11070602)	468355.00	3769916.69
241.86561	(11090519)					
	468380.00	3769916.69	779.06789	(11070222)	468405.00	3769916.69
	(12112919)					
	468430.00	3769916.69	556.45060	(08062701)	468330.00	3769941.69
	(11121408)					
	468355.00	3769941.69	688.48351	(09030220)	468380.00	3769941.69
	(08070122)					
	468405.00	3769941.69	553.10997	(09111019)	468430.00	3769941.69
	(12112919)					
	468330.00	3769966.69	560.61453	(10111218)	468355.00	3769966.69
	(12071303)					
	468380.00	3769966.69	510.35338	(11090519)	468405.00	3769966.69
	(08093020)					
	468430.00	3769966.69	420.08267	(09111019)	468330.00	3769991.69
	(10111218)					
	468355.00	3769991.69	453.63246	(12071303)	468380.00	3769991.69
	(11090519)					
	468330.00	3770016.69	380.15561	(10111218)	468355.00	3770016.69
	(12071303)					
	468380.00	3770016.69	356.44346	(09030220)	468330.00	3770041.69
	(10111218)					
	468355.00	3770041.69	314.12847	(09092720)	468380.00	3770041.69
	(12071303)					
	468330.00	3770066.69	278.28494	(10111218)	468355.00	3770066.69
	(11070602)					
	468380.00	3770066.69	272.57949	(12071303)	468330.00	3770091.69
	(10111218)					
	468355.00	3770091.69	239.10300	(11070602)	468380.00	3770091.69
	(12071303)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB28 ***
 INCLUDING SOURCE(S): FWYEB28 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
2323.02394	468330.00	3769866.69	2293.09825	(10031907)	468355.00	3769866.69
1407.99143	468380.00	3769866.69	2122.14993	(09042707)	468405.00	3769866.69
1413.26938	468430.00	3769866.69	931.76515	(10011018)	468330.00	3769891.69
1213.75816	468355.00	3769891.69	1400.40036	(12071303)	468380.00	3769891.69
791.56824	468405.00	3769891.69	985.28540	(12112919)	468430.00	3769891.69
947.54866	468330.00	3769916.69	965.45806	(09083121)	468355.00	3769916.69
767.91373	468380.00	3769916.69	894.73925	(11090519)	468405.00	3769916.69
713.95963	468430.00	3769916.69	652.83103	(12112919)	468330.00	3769941.69
675.11197	468355.00	3769941.69	699.76707	(11121408)	468380.00	3769941.69
542.86191	468405.00	3769941.69	606.15647	(08070122)	468430.00	3769941.69
547.54050	468330.00	3769966.69	556.85922	(11082702)	468355.00	3769966.69
504.17431	468380.00	3769966.69	545.78767	(12071303)	468405.00	3769966.69
449.47350	468430.00	3769966.69	454.23852	(08093020)	468330.00	3769991.69
447.27330	468355.00	3769991.69	445.21010	(10111218)	468380.00	3769991.69
372.82631	468330.00	3770016.69	375.71804	(08051721)	468355.00	3770016.69
319.35947	468380.00	3770016.69	368.91449	(12071303)	468330.00	3770041.69
308.64960	468355.00	3770041.69	317.99539	(10111218)	468380.00	3770041.69
274.58186	468330.00	3770066.69	274.98186	(08051721)	468355.00	3770066.69
239.87655	468380.00	3770066.69	269.29156	(11070602)	468330.00	3770091.69
236.72147	468355.00	3770091.69	239.95055	(10111218)	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB29 ***
 INCLUDING SOURCE(S): FWYEB29 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

X-COORD (M) CONC	Y-COORD (M) (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
468330.00	3769866.69	1927.18086	(10101608)	468355.00	3769866.69
2191.79247	(10031907)				
468380.00	3769866.69	2207.73572	(12071303)	468405.00	3769866.69
2002.21405	(09042707)				
468430.00	3769866.69	1393.53417	(11061607)	468330.00	3769891.69
1195.18543	(11082701)				
468355.00	3769891.69	1370.04560	(08110124)	468380.00	3769891.69
1354.93226	(12071303)				
468405.00	3769891.69	1173.16954	(08070122)	468430.00	3769891.69
975.95938	(08112519)				
468330.00	3769916.69	856.32344	(09092304)	468355.00	3769916.69
936.23168	(09083121)				
468380.00	3769916.69	929.29456	(11070602)	468405.00	3769916.69
878.87194	(11090519)				
468430.00	3769916.69	759.23362	(08093020)	468330.00	3769941.69
655.64624	(12042021)				
468355.00	3769941.69	697.28261	(11082702)	468380.00	3769941.69
688.35734	(11121408)				
468405.00	3769941.69	663.62467	(09030220)	468430.00	3769941.69
598.74157	(11101505)				
468330.00	3769966.69	523.38234	(08110124)	468355.00	3769966.69
545.56752	(11082702)				
468380.00	3769966.69	540.77679	(10111218)	468405.00	3769966.69
539.10699	(12071303)				
468430.00	3769966.69	498.77884	(11090519)	468330.00	3769991.69
436.83712	(08110124)				
468355.00	3769991.69	441.84678	(08051721)	468380.00	3769991.69
440.26122	(10111218)				
468330.00	3770016.69	367.66490	(08110124)	468355.00	3770016.69
369.53997	(08051721)				
468380.00	3770016.69	366.99834	(10111218)	468330.00	3770041.69
313.73051	(09083121)				
468355.00	3770041.69	314.84511	(08051721)	468380.00	3770041.69
313.24671	(10111218)				
468330.00	3770066.69	270.68802	(09083121)	468355.00	3770066.69
271.83077	(08051721)				
468380.00	3770066.69	271.46622	(10111218)	468330.00	3770091.69
237.48880	(09082124)				
468355.00	3770091.69	237.37397	(08051721)	468380.00	3770091.69
237.60129	(10111218)				

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB30 ***
 INCLUDING SOURCE(S): FWYEB30 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
1926.05874	468330.00	3769866.69	1361.23661	(11062406)	468355.00	3769866.69
2156.04776	468380.00	3769866.69	2092.62090	(10031907)	468405.00	3769866.69
948.53176	468430.00	3769866.69	1916.71080	(09042707)	468330.00	3769891.69
1355.53784	468355.00	3769891.69	1179.46801	(11082701)	468380.00	3769891.69
1174.23403	468405.00	3769891.69	1330.92228	(12071303)	468430.00	3769891.69
848.47352	468330.00	3769916.69	738.42646	(09071804)	468355.00	3769916.69
924.05171	468380.00	3769916.69	930.47047	(09083121)	468405.00	3769916.69
600.33329	468430.00	3769916.69	873.95768	(11090519)	468330.00	3769941.69
693.39147	468355.00	3769941.69	649.49783	(12042021)	468380.00	3769941.69
658.56652	468405.00	3769941.69	684.09973	(11121408)	468430.00	3769941.69
519.37346	468330.00	3769966.69	478.67805	(08021120)	468355.00	3769966.69
539.72282	468380.00	3769966.69	542.09567	(11082702)	468405.00	3769966.69
404.74863	468430.00	3769966.69	536.61536	(12071303)	468330.00	3769991.69
439.35071	468355.00	3769991.69	432.85188	(08110124)	468380.00	3769991.69
363.34472	468330.00	3770016.69	344.63862	(12042021)	468355.00	3770016.69
293.00170	468380.00	3770016.69	365.98271	(08051721)	468330.00	3770041.69
311.59103	468355.00	3770041.69	309.93572	(09083121)	468380.00	3770041.69
267.51507	468330.00	3770066.69	256.88674	(08110124)	468355.00	3770066.69
230.21532	468380.00	3770066.69	268.73007	(08051721)	468330.00	3770091.69
234.81635	468355.00	3770091.69	235.20290	(09082124)	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB31 ***
 INCLUDING SOURCE(S): FWYEB31 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
1367.68405	468330.00	3769866.69	886.89817	(09092421)	468355.00	3769866.69
2011.56766	468380.00	3769866.69	1828.40010	(10101608)	468405.00	3769866.69
741.77752	468430.00	3769866.69	2075.42044	(12071303)	468330.00	3769891.69
1148.66272	468355.00	3769891.69	932.38037	(10082701)	468380.00	3769891.69
1298.89404	468405.00	3769891.69	1313.02103	(09083121)	468430.00	3769891.69
721.17694	468330.00	3769916.69	621.34852	(08102121)	468355.00	3769916.69
911.80177	468380.00	3769916.69	836.95773	(09092304)	468405.00	3769916.69
515.94303	468430.00	3769916.69	906.04233	(11070602)	468330.00	3769941.69
640.81670	468355.00	3769941.69	589.39512	(11082701)	468380.00	3769941.69
674.15345	468405.00	3769941.69	682.46564	(11082702)	468430.00	3769941.69
471.52823	468330.00	3769966.69	431.20760	(11082701)	468355.00	3769966.69
534.35586	468380.00	3769966.69	514.12090	(08110124)	468405.00	3769966.69
372.93876	468430.00	3769966.69	532.94969	(10111218)	468330.00	3769991.69
428.06819	468355.00	3769991.69	399.26057	(09092304)	468380.00	3769991.69
340.40708	468330.00	3770016.69	313.78648	(08021120)	468355.00	3770016.69
276.24436	468380.00	3770016.69	358.23205	(08110124)	468330.00	3770041.69
306.26166	468355.00	3770041.69	289.17321	(12042021)	468380.00	3770041.69
254.78782	468330.00	3770066.69	244.87726	(09092304)	468355.00	3770066.69
219.39679	468380.00	3770066.69	264.44544	(09083121)	468330.00	3770091.69
232.96127	468355.00	3770091.69	228.25549	(08110124)	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB32 ***
 INCLUDING SOURCE(S): FWYEB32 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
879.47900	468330.00	3769866.69	684.20312	(08093021)	468355.00	3769866.69
1702.44197	(09092421)					
602.49551	468380.00	3769866.69	1311.96967	(11062406)	468405.00	3769866.69
918.34072	1702.44197	(10101608)				
1273.83462	468430.00	3769866.69	1946.41141	(08110124)	468330.00	3769891.69
610.09356	(10022702)					
820.24233	468355.00	3769891.69	733.94031	(12110524)	468380.00	3769891.69
507.01033	468405.00	3769891.69	1117.52563	(11082701)	468430.00	3769891.69
393.92084	1273.83462	(09083121)				
285.43296	468330.00	3769916.69	521.96174	(12110524)	468355.00	3769916.69
242.92122	610.09356	(08102121)				
203.46391	468380.00	3769916.69	704.02461	(09071804)	468405.00	3769916.69
226.29831	820.24233	(09092304)				
	468430.00	3769916.69	887.83741	(09083121)	468330.00	3769941.69
	447.45613	(08102121)				
	468355.00	3769941.69	509.20459	(09071804)	468380.00	3769941.69
	578.62874	(11082701)				
	468405.00	3769941.69	628.34687	(12042021)	468430.00	3769941.69
	668.62907	(11082702)				
	468330.00	3769966.69	384.20528	(10082701)	468355.00	3769966.69
	427.68420	(11082701)				
	468380.00	3769966.69	464.53787	(08021120)	468405.00	3769966.69
	507.01033	(08110124)				
	468430.00	3769966.69	524.85613	(11082702)	468330.00	3769991.69
	330.23344	(09071804)				
	468355.00	3769991.69	367.73186	(11082701)	468380.00	3769991.69
	393.92084	(09092304)				
	468330.00	3770016.69	295.33064	(11082701)	468355.00	3770016.69
	310.75690	(08021120)				
	468380.00	3770016.69	336.17105	(12042021)	468330.00	3770041.69
	260.52571	(11082701)				
	468355.00	3770041.69	274.01425	(09092304)	468380.00	3770041.69
	285.43296	(12042021)				
	468330.00	3770066.69	226.25860	(08021120)	468355.00	3770066.69
	242.92122	(12042021)				
	468380.00	3770066.69	252.73597	(08110124)	468330.00	3770091.69
	203.46391	(08021120)				
	468355.00	3770091.69	217.53779	(12042021)	468380.00	3770091.69
	226.29831	(08110124)				

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB33 ***
 INCLUDING SOURCE(S): FWYEB33 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

X-COORD (M) CONC (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
674.35832	468330.00 (08093021)	538.36531	(10092522)	468355.00	3769866.69
1268.38431	468380.00 (11062406)	868.17572	(09092421)	468405.00	3769866.69
489.51556	468430.00 (09092421)	1620.87840	(10101608)	468330.00	3769891.69
726.13843	468355.00 (12110524)	593.92318	(10022702)	468380.00	3769891.69
1085.41114	468405.00 (11082701)	902.18047	(10082701)	468430.00	3769891.69
516.32055	468330.00 (12110524)	433.75615	(10110807)	468355.00	3769916.69
693.00054	468380.00 (11082701)	603.91195	(10082701)	468405.00	3769916.69
390.43790	468430.00 (12110524)	802.99352	(09092304)	468330.00	3769941.69
501.94281	468355.00 (09071804)	441.02562	(08102121)	468380.00	3769941.69
615.63154	468405.00 (12042021)	567.46887	(11082701)	468430.00	3769941.69
378.82470	468330.00 (09071804)	342.48076	(08102121)	468355.00	3769966.69
457.50476	468380.00 (09092304)	423.82399	(11082701)	468405.00	3769966.69
303.88312	468430.00 (10082701)	499.76227	(08110124)	468330.00	3769991.69
362.39280	468355.00 (11082701)	325.26045	(09071804)	468380.00	3769991.69
293.03649	468330.00 (11082701)	268.32324	(09071804)	468355.00	3770016.69
238.06860	468380.00 (08101103)	307.56460	(08021120)	468330.00	3770041.69
271.63859	468355.00 (09092304)	257.52854	(11082701)	468380.00	3770041.69
224.59866	468330.00 (08021120)	218.21513	(11082701)	468355.00	3770066.69
195.51446	468380.00 (11082701)	240.92672	(12042021)	468330.00	3770091.69
215.44039	468355.00 (12042021)	201.82051	(09092304)	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB34 ***
 INCLUDING SOURCE(S): FWYEB34 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
535.66802	468330.00	3769866.69	438.22459	(12092322)	468355.00	3769866.69
858.45327	(08093021)					
403.29558	468380.00	3769866.69	662.25458	(12091601)	468405.00	3769866.69
583.37031	(10022702)					
882.89807	468430.00	3769866.69	1290.74880	(11062406)	468330.00	3769891.69
428.49717	(12101522)					
596.68532	468355.00	3769891.69	485.55008	(09092421)	468380.00	3769891.69
329.28472	(10022702)					
434.54105	468405.00	3769891.69	726.25913	(11062406)	468430.00	3769891.69
265.41683	(10082701)					
221.64817	468330.00	3769916.69	374.55697	(10022702)	468355.00	3769916.69
254.37270	(10110807)					
216.47387	468380.00	3769916.69	509.16082	(12110524)	468405.00	3769916.69
182.71198	(10082701)					
200.40234	468430.00	3769916.69	684.69294	(11082701)	468330.00	3769941.69
	(09051605)					
	468355.00	3769941.69	385.56606	(12110524)	468380.00	3769941.69
	(10082701)					
	468405.00	3769941.69	493.88098	(09071804)	468430.00	3769941.69
	(11082701)					
	468330.00	3769966.69	304.89908	(12110524)	468355.00	3769966.69
	(08102121)					
	468380.00	3769966.69	375.39493	(09071804)	468405.00	3769966.69
	(11082701)					
	468430.00	3769966.69	451.89965	(09092304)	468330.00	3769991.69
	(08102121)					
	468355.00	3769991.69	300.13959	(10082701)	468380.00	3769991.69
	(08101103)					
	468330.00	3770016.69	247.44863	(10082701)	468355.00	3770016.69
	(09071804)					
	468380.00	3770016.69	290.49095	(11082701)	468330.00	3770041.69
	(09071804)					
	468355.00	3770041.69	236.33551	(08101103)	468380.00	3770041.69
	(11082701)					
	468330.00	3770066.69	196.89245	(09071804)	468355.00	3770066.69
	(11082701)					
	468380.00	3770066.69	222.73921	(08021120)	468330.00	3770091.69
	(08101103)					
	468355.00	3770091.69	193.43428	(11082701)	468380.00	3770091.69
	(09092304)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB35 ***
 INCLUDING SOURCE(S): FWYEB35 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
437.96976	468330.00	3769866.69	368.36094	(12093021)	468355.00	3769866.69
658.85376	(12092322)					
350.34232	468380.00	3769866.69	536.46322	(08093021)	468405.00	3769866.69
483.93620	(12101522)					
717.69592	468430.00	3769866.69	856.10829	(10022702)	468330.00	3769891.69
373.67174	(08112119)					
505.74729	468355.00	3769891.69	401.62781	(12101522)	468380.00	3769891.69
295.31985	(09092421)					
192.47436	468405.00	3769891.69	578.78308	(10022702)	468430.00	3769891.69
207.31841	(11062406)					
235.78997	468330.00	3769916.69	321.84160	(09092421)	468355.00	3769916.69
171.57780	(10022702)					
195.90193	468380.00	3769916.69	425.86583	(10110807)	468405.00	3769916.69
112.47436	(12110524)					
246.58173	468430.00	3769916.69	593.33333	(10082701)	468330.00	3769941.69
207.31841	(10022702)					
235.78997	468355.00	3769941.69	328.19635	(12110524)	468380.00	3769941.69
192.47436	(12110524)					
246.58173	468405.00	3769941.69	433.23095	(10082701)	468430.00	3769941.69
207.31841	(09071804)					
235.78997	468330.00	3769966.69	269.32040	(12110524)	468355.00	3769966.69
171.57780	(12110524)					
195.90193	468380.00	3769966.69	336.18900	(08102121)	468405.00	3769966.69
112.47436	(09071804)					
246.58173	468430.00	3769966.69	417.42721	(11082701)	468330.00	3769991.69
207.31841	(12110524)					
235.78997	468355.00	3769991.69	272.13268	(08102121)	468380.00	3769991.69
171.57780	(10082701)					
195.90193	468330.00	3770016.69	225.98241	(08102121)	468355.00	3770016.69
112.47436	(10082701)					
246.58173	468380.00	3770016.69	264.12757	(09071804)	468330.00	3770041.69
207.31841	(10082701)					
235.78997	468355.00	3770041.69	221.08325	(09071804)	468380.00	3770041.69
171.57780	(08101103)					
195.90193	468330.00	3770066.69	186.83925	(09071804)	468355.00	3770066.69
112.47436	(09071804)					
246.58173	468380.00	3770066.69	215.78680	(11082701)	468330.00	3770091.69
207.31841	(09071804)					
235.78997	468355.00	3770091.69	182.27844	(08101103)	468380.00	3770091.69
171.57780	(11082701)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB36 ***
 INCLUDING SOURCE(S): FWYEB36 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
367.17978	468330.00	3769866.69	314.43120	(09102322)	468355.00	3769866.69
534.84999	(12093021)					
298.71545	468380.00	3769866.69	436.27998	(10092522)	468405.00	3769866.69
397.84355	(08093021)					
570.59931	468430.00	3769866.69	649.20705	(12101522)	468330.00	3769891.69
320.34556	(12121019)					
419.64627	468355.00	3769891.69	348.00307	(08112119)	468380.00	3769891.69
262.06332	(09111522)					
185.97769	468405.00	3769891.69	479.13972	(09092421)	468430.00	3769891.69
160.41012	(08121603)					
180.98444	468330.00	3769916.69	277.36560	(09111522)	468355.00	3769916.69
	(09092421)					
	468380.00	3769916.69	370.51295	(10022702)	468405.00	3769916.69
	(10110807)					
	468430.00	3769916.69	497.74890	(12110524)	468330.00	3769941.69
	(10022702)					
	468355.00	3769941.69	292.57849	(10110807)	468380.00	3769941.69
	(12110524)					
	468405.00	3769941.69	377.69517	(12110524)	468430.00	3769941.69
	(10082701)					
	468330.00	3769966.69	241.44482	(10110807)	468355.00	3769966.69
	(12110524)					
	468380.00	3769966.69	299.40927	(12110524)	468405.00	3769966.69
	(11101005)					
	468430.00	3769966.69	370.06439	(09071804)	468330.00	3769991.69
	(12110524)					
	468355.00	3769991.69	245.06720	(12110524)	468380.00	3769991.69
	(08102121)					
	468330.00	3770016.69	205.17926	(12110524)	468355.00	3770016.69
	(08102121)					
	468380.00	3770016.69	244.29714	(10082701)	468330.00	3770041.69
	(08102121)					
	468355.00	3770041.69	205.97275	(10082701)	468380.00	3770041.69
	(09071804)					
	468330.00	3770066.69	176.26909	(10082701)	468355.00	3770066.69
	(09071804)					
	468380.00	3770066.69	194.71136	(08101103)	468330.00	3770091.69
	(10082701)					
	468355.00	3770091.69	170.14254	(09071804)	468380.00	3770091.69
	(11082701)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB37 ***
 INCLUDING SOURCE(S): FWYEB37 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
313.23197	468330.00	3769866.69	271.61476	(09102322)	468355.00	3769866.69
435.14259	(09102322)					
260.44142	468380.00	3769866.69	365.85567	(12093021)	468405.00	3769866.69
345.29211	(10092522)					
475.54145	468430.00	3769866.69	531.67734	(08093021)	468330.00	3769891.69
168.60692	(10092522)					
173.45569	468355.00	3769891.69	298.81987	(08112119)	468380.00	3769891.69
204.59513	(08112119)					
175.41617	468405.00	3769891.69	396.12728	(09040422)	468430.00	3769891.69
152.28096	(10022702)					
112.11211	468330.00	3769916.69	247.93657	(08112119)	468355.00	3769916.69
112.11211	(09040422)					
112.11211	468380.00	3769916.69	318.36421	(09092421)	468405.00	3769916.69
112.11211	(10022702)					
112.11211	468430.00	3769916.69	413.81335	(09051605)	468330.00	3769941.69
112.11211	(09092421)					
112.11211	468355.00	3769941.69	261.36780	(10022702)	468380.00	3769941.69
112.11211	(10110807)					
112.11211	468405.00	3769941.69	327.69558	(12110524)	468430.00	3769941.69
112.11211	(12110524)					
112.11211	468330.00	3769966.69	218.63608	(10022702)	468355.00	3769966.69
112.11211	(10110807)					
112.11211	468380.00	3769966.69	268.24775	(12110524)	468405.00	3769966.69
112.11211	(12110524)					
112.11211	468430.00	3769966.69	329.62493	(10082701)	468330.00	3769991.69
112.11211	(10110807)					
112.11211	468355.00	3769991.69	224.65802	(12110524)	468380.00	3769991.69
112.11211	(12110524)					
112.11211	468330.00	3770016.69	191.33426	(12110524)	468355.00	3770016.69
112.11211	(12110524)					
112.11211	468380.00	3770016.69	222.20456	(08102121)	468330.00	3770041.69
112.11211	(09071001)					
112.11211	468355.00	3770041.69	189.00283	(08102121)	468380.00	3770041.69
112.11211	(10082701)					
112.11211	468330.00	3770066.69	163.39911	(08102121)	468355.00	3770066.69
112.11211	(10082701)					
112.11211	468380.00	3770066.69	185.08369	(09071804)	468330.00	3770091.69
112.11211	(10082701)					
112.11211	468355.00	3770091.69	159.49673	(12031101)	468380.00	3770091.69
112.11211	(09071804)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB38 ***
 INCLUDING SOURCE(S): FWYEB38 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
271.10753	468330.00	3769866.69	235.85022	(09102322)	468355.00	3769866.69
363.42124	(09102322)					
228.84997	468380.00	3769866.69	311.23406	(09102322)	468405.00	3769866.69
298.22926	(12093021)					
394.45503	468430.00	3769866.69	432.03936	(10092522)	468330.00	3769891.69
245.44544	(12093021)					
315.63579	468355.00	3769891.69	259.49203	(10092522)	468380.00	3769891.69
205.99938	(08112119)					
260.01094	468405.00	3769891.69	341.70797	(08112119)	468430.00	3769891.69
184.24526	(09040422)					
162.23269	468330.00	3769916.69	222.46118	(08112119)	468355.00	3769916.69
142.27517	(08112119)					
158.25537	468380.00	3769916.69	275.06583	(09040422)	468405.00	3769916.69
	(09092421)					
	468430.00	3769916.69	362.52919	(10022702)	468330.00	3769941.69
	(09040422)					
	468355.00	3769941.69	231.46765	(09092421)	468380.00	3769941.69
	(10022702)					
	468405.00	3769941.69	288.88420	(10110807)	468430.00	3769941.69
	(12110524)					
	468330.00	3769966.69	196.26717	(10022702)	468355.00	3769966.69
	(10022702)					
	468380.00	3769966.69	237.42857	(10110807)	468405.00	3769966.69
	(12110524)					
	468430.00	3769966.69	291.13545	(09071001)	468330.00	3769991.69
	(10110807)					
	468355.00	3769991.69	198.23629	(10110807)	468380.00	3769991.69
	(12110524)					
	468330.00	3770016.69	168.87359	(09051605)	468355.00	3770016.69
	(12110524)					
	468380.00	3770016.69	201.14257	(09071001)	468330.00	3770041.69
	(12110524)					
	468355.00	3770041.69	172.20096	(09071001)	468380.00	3770041.69
	(08102121)					
	468330.00	3770066.69	149.73887	(09071001)	468355.00	3770066.69
	(08102121)					
	468380.00	3770066.69	174.31162	(10082701)	468330.00	3770091.69
	(08102121)					
	468355.00	3770091.69	151.59190	(10082701)	468380.00	3770091.69
	(12031101)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB39 ***
 INCLUDING SOURCE(S): FWYEB39 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
235.92688	468330.00	3769866.69	209.42527	(09102104)	468355.00	3769866.69
310.60829	(09102322)					
204.57332	468380.00	3769866.69	270.30225	(09102322)	468405.00	3769866.69
258.05584	(12093021)					
336.95950	468430.00	3769866.69	361.57146	(12092322)	468330.00	3769891.69
221.34457	(12093021)					
273.91803	468355.00	3769891.69	228.21492	(12092322)	468380.00	3769891.69
185.93152	(10092522)					
169.94509	468405.00	3769891.69	297.16764	(08112119)	468430.00	3769891.69
195.87696	(12091601)					
115.93319	468330.00	3769916.69	197.37979	(08112119)	468355.00	3769916.69
171.34004	(08112119)					
148.91284	468380.00	3769916.69	242.45003	(12091601)	468405.00	3769916.69
131.13854	(09040422)					
150.69285	468430.00	3769916.69	312.25548	(09092421)	468330.00	3769941.69
112.91284	(09111522)					
168.93996	468355.00	3769941.69	205.70721	(09040422)	468380.00	3769941.69
148.67563	(09092421)					
171.34004	468405.00	3769941.69	258.19523	(10022702)	468430.00	3769941.69
148.91284	(10110807)					
131.13854	468330.00	3769966.69	178.20254	(09092421)	468355.00	3769966.69
115.93319	(10022702)					
168.93996	468380.00	3769966.69	214.71858	(10022702)	468405.00	3769966.69
148.67563	(10110807)					
171.34004	468430.00	3769966.69	265.28978	(12110524)	468330.00	3769991.69
148.91284	(10022702)					
131.13854	468355.00	3769991.69	183.42854	(10110807)	468380.00	3769991.69
115.93319	(09051605)					
168.93996	468330.00	3770016.69	158.81397	(10110807)	468355.00	3770016.69
148.67563	(12110524)					
171.34004	468380.00	3770016.69	189.33477	(12110524)	468330.00	3770041.69
148.91284	(12110524)					
131.13854	468355.00	3770041.69	163.58903	(12110524)	468380.00	3770041.69
115.93319	(08102121)					
168.93996	468330.00	3770066.69	143.25229	(12110524)	468355.00	3770066.69
148.67563	(08102121)					
171.34004	468380.00	3770066.69	160.91403	(08102121)	468330.00	3770091.69
148.91284	(09122323)					
131.13854	468355.00	3770091.69	141.30097	(08102121)	468380.00	3770091.69
115.93319	(10082701)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB40 ***
 INCLUDING SOURCE(S): FWYEB40 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
208.79640	468330.00	3769866.69	187.73626	(09102104)	468355.00	3769866.69
270.08476	(09102104)					
183.86017	468380.00	3769866.69	236.69402	(09102322)	468405.00	3769866.69
227.75557	(09102322)					
296.00341	468430.00	3769866.69	309.99553	(12093021)	468330.00	3769891.69
197.65752	(09102322)					
241.06805	468355.00	3769891.69	203.98544	(12093021)	468380.00	3769891.69
171.81485	(12092322)					
205.38012	468405.00	3769891.69	257.55372	(12121019)	468430.00	3769891.69
158.07805	(08112119)					
137.67079	468330.00	3769916.69	177.54218	(12121019)	468355.00	3769916.69
162.85039	(08112119)					
142.56361	468380.00	3769916.69	220.17902	(08112119)	468405.00	3769916.69
126.23172	(09111522)					
140.38971	468430.00	3769916.69	273.02724	(09040422)	468330.00	3769941.69
	(08112119)					
	468355.00	3769941.69	185.50413	(09111522)	468380.00	3769941.69
	(09040422)					
	468405.00	3769941.69	228.60979	(09092421)	468430.00	3769941.69
	(10022702)					
	468330.00	3769966.69	161.78153	(09040422)	468355.00	3769966.69
	(09092421)					
	468380.00	3769966.69	195.43498	(10022702)	468405.00	3769966.69
	(10022702)					
	468430.00	3769966.69	232.31263	(10110807)	468330.00	3769991.69
	(08121207)					
	468355.00	3769991.69	169.18920	(10022702)	468380.00	3769991.69
	(10110807)					
	468330.00	3770016.69	146.50690	(10022702)	468355.00	3770016.69
	(10110807)					
	468380.00	3770016.69	169.27365	(12110524)	468330.00	3770041.69
	(10110807)					
	468355.00	3770041.69	148.88173	(12110524)	468380.00	3770041.69
	(12110524)					
	468330.00	3770066.69	132.23812	(12110524)	468355.00	3770066.69
	(12110524)					
	468380.00	3770066.69	148.73990	(08102121)	468330.00	3770091.69
	(12110524)					
	468355.00	3770091.69	131.03110	(08102121)	468380.00	3770091.69
	(08102121)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB41 ***
 INCLUDING SOURCE(S): FWYEB41 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
187.53424	468330.00	3769866.69	169.19207	(09102104)	468355.00	3769866.69
237.22118	468380.00	3769866.69	208.41476	(09102322)	468405.00	3769866.69
167.26856	468430.00	3769866.69	269.09792	(09102322)	468330.00	3769891.69
203.17312	468355.00	3769891.69	183.25166	(12093021)	468380.00	3769891.69
256.53315	468405.00	3769891.69	227.23594	(10092522)	468430.00	3769891.69
177.48082	468330.00	3769916.69	161.00109	(12092322)	468355.00	3769916.69
218.77650	468380.00	3769916.69	197.51169	(08112119)	468405.00	3769916.69
157.74352	468430.00	3769916.69	239.91005	(09111522)	468330.00	3769941.69
184.71688	468355.00	3769941.69	170.83229	(08112119)	468380.00	3769941.69
227.01932	468405.00	3769941.69	204.85275	(09040422)	468430.00	3769941.69
161.72306	468330.00	3769966.69	148.05932	(09111522)	468355.00	3769966.69
194.82609	468380.00	3769966.69	176.97173	(09092421)	468405.00	3769966.69
142.79470	468430.00	3769966.69	211.69633	(10110807)	468330.00	3769991.69
168.19171	468355.00	3769991.69	154.26595	(10022702)	468380.00	3769991.69
145.61879	468330.00	3770016.69	137.13076	(10022702)	468355.00	3770016.69
129.49091	468380.00	3770016.69	157.17077	(10110807)	468330.00	3770041.69
148.98894	468355.00	3770041.69	136.78201	(10110807)	468380.00	3770041.69
132.21011	468330.00	3770066.69	120.43726	(09051605)	468355.00	3770066.69
118.36215	468380.00	3770066.69	141.75944	(12110524)	468330.00	3770091.69
130.81156	468355.00	3770091.69	125.57253	(12110524)	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB42 ***
 INCLUDING SOURCE(S): FWYEB42 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
168.89516	468330.00	3769866.69	152.91869	(09102104)	468355.00	3769866.69
208.92010	(09102104)					
152.10440	468380.00	3769866.69	186.89726	(09102104)	468405.00	3769866.69
182.80505	(09102322)					
226.39376	468430.00	3769866.69	236.62915	(09102322)	468330.00	3769891.69
160.57116	(09102322)					
196.80184	468355.00	3769891.69	166.49104	(09102322)	468380.00	3769891.69
175.85943	(12093021)					
131.56941	468405.00	3769891.69	201.93553	(12093021)	468430.00	3769891.69
153.93593	(10092522)					
136.63540	468330.00	3769916.69	146.56414	(12092322)	468355.00	3769916.69
121.08356	(10092522)					
119.78684	468380.00	3769916.69	176.77801	(12121019)	468405.00	3769916.69
107.22513	(08112119)					
124.54247	468430.00	3769916.69	216.71373	(08112119)	468330.00	3769941.69
	(08112119)					
	468355.00	3769941.69	157.18183	(08112119)	468380.00	3769941.69
	(08112119)					
	468405.00	3769941.69	183.45128	(09111522)	468430.00	3769941.69
	(09040422)					
	468330.00	3769966.69	136.85182	(08112119)	468355.00	3769966.69
	(09111522)					
	468380.00	3769966.69	161.14262	(09040422)	468405.00	3769966.69
	(09092421)					
	468430.00	3769966.69	193.78926	(10022702)	468330.00	3769991.69
	(09040422)					
	468355.00	3769991.69	142.30005	(09092421)	468380.00	3769991.69
	(10022702)					
	468330.00	3770016.69	125.86798	(08121207)	468355.00	3770016.69
	(10022702)					
	468380.00	3770016.69	145.27757	(10110807)	468330.00	3770041.69
	(10022702)					
	468355.00	3770041.69	129.00232	(10110807)	468380.00	3770041.69
	(10110807)					
	468330.00	3770066.69	115.06569	(10110807)	468355.00	3770066.69
	(09051605)					
	468380.00	3770066.69	131.86062	(12110524)	468330.00	3770091.69
	(12110524)					
	468355.00	3770091.69	118.03613	(12110524)	468380.00	3770091.69
	(12110524)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB43 ***
 INCLUDING SOURCE(S): FWYEB43 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
152.92028	468330.00	3769866.69	138.93438	(09102104)	468355.00	3769866.69
186.26076	468380.00	3769866.69	168.69322	(09102104)	468405.00	3769866.69
138.63036	468430.00	3769866.69	209.05028	(09102322)	468330.00	3769891.69
165.61803	468355.00	3769891.69	151.76824	(09102322)	468380.00	3769891.69
201.37592	468405.00	3769891.69	182.31814	(12093021)	468430.00	3769891.69
146.43126	468330.00	3769916.69	135.14802	(12093021)	468355.00	3769916.69
175.93456	468380.00	3769916.69	160.12959	(10092522)	468405.00	3769916.69
131.57226	468430.00	3769916.69	195.92970	(08112119)	468330.00	3769941.69
156.36619	468355.00	3769941.69	143.43784	(08112119)	468380.00	3769941.69
182.06156	468405.00	3769941.69	167.59296	(08112119)	468430.00	3769941.69
135.70215	468330.00	3769966.69	128.36766	(08112119)	468355.00	3769966.69
160.45922	468380.00	3769966.69	146.35683	(09111522)	468405.00	3769966.69
121.05403	468430.00	3769966.69	174.63928	(09092421)	468330.00	3769991.69
141.63396	468355.00	3769991.69	131.31589	(09040422)	468380.00	3769991.69
125.65451	468330.00	3770016.69	117.57817	(09092421)	468355.00	3770016.69
113.46003	468380.00	3770016.69	136.05708	(10022702)	468330.00	3770041.69
128.50017	468355.00	3770041.69	120.37319	(10022702)	468380.00	3770041.69
114.44135	468330.00	3770066.69	107.54609	(10110807)	468355.00	3770066.69
179.70597	468380.00	3770066.69	119.08836	(09051605)	468330.00	3770091.69
117.58504	468355.00	3770091.69	107.37090	(12110524)	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB44 ***
 INCLUDING SOURCE(S): FWYEB44 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
239.41669	468330.00	3769866.69	221.88899	(12091322)	468355.00	3769866.69
168.58240	(12091322)					
126.72602	468380.00	3769866.69	153.09721	(09102104)	468405.00	3769866.69
151.42564	(09102104)					
181.57837	468430.00	3769866.69	185.73069	(09102322)	468330.00	3769891.69
134.73458	(09102322)					
113.00369	468355.00	3769891.69	138.67538	(09102322)	468380.00	3769891.69
107.41356	(09102322)					
172.74010	468405.00	3769891.69	164.84530	(09102322)	468430.00	3769891.69
107.44050	(12093021)					
119.67505	468330.00	3769916.69	124.66798	(12093021)	468355.00	3769916.69
107.41356	(12093021)					
172.74010	468380.00	3769916.69	146.13092	(12092322)	468405.00	3769916.69
119.67505	(10092522)					
107.41356	468430.00	3769916.69	175.62537	(08112119)	468330.00	3769941.69
119.67505	(10092522)					
107.41356	468355.00	3769941.69	131.36049	(12121019)	468380.00	3769941.69
119.67505	(08112119)					
107.41356	468405.00	3769941.69	155.52890	(08112119)	468430.00	3769941.69
119.67505	(12091601)					
107.41356	468330.00	3769966.69	119.47580	(08112119)	468355.00	3769966.69
119.67505	(08112119)					
107.41356	468380.00	3769966.69	135.20571	(09111522)	468405.00	3769966.69
119.67505	(09111522)					
107.41356	468430.00	3769966.69	159.76692	(09040422)	468330.00	3769991.69
119.67505	(09111522)					
107.41356	468355.00	3769991.69	120.47490	(09111522)	468380.00	3769991.69
119.67505	(09040422)					
107.41356	468330.00	3770016.69	109.62358	(09040422)	468355.00	3770016.69
119.67505	(09092421)					
107.41356	468380.00	3770016.69	125.39624	(08121207)	468330.00	3770041.69
119.67505	(09060205)					
107.41356	468355.00	3770041.69	113.26140	(10022702)	468380.00	3770041.69
119.67505	(10022702)					
107.41356	468330.00	3770066.69	178.69809	(08062123)	468355.00	3770066.69
119.67505	(10110807)					
107.41356	468380.00	3770066.69	113.81317	(10110807)	468330.00	3770091.69
119.67505	(12091521)					
107.41356	468355.00	3770091.69	178.73741	(09093004)	468380.00	3770091.69
119.67505	(12110524)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB45 ***
 INCLUDING SOURCE(S): FWYEB45 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
225.93757	468330.00	3769866.69	210.41278	(12091322)	468355.00	3769866.69
153.01415	(12091322)					
116.77269	468380.00	3769866.69	238.33059	(12091322)	468405.00	3769866.69
138.50564	(09102104)					
164.19026	468430.00	3769866.69	167.26350	(09102104)	468330.00	3769891.69
124.24479	(09102322)					
145.39546	468355.00	3769891.69	127.29685	(09102322)	468380.00	3769891.69
112.17399	(09102322)					
130.81175	468405.00	3769891.69	150.32018	(09102322)	468430.00	3769891.69
153.25285	(12093021)					
118.80678	468330.00	3769916.69	115.11704	(12093021)	468355.00	3769916.69
175.27860	(12093021)					
112.51936	468380.00	3769916.69	133.68465	(12092322)	468405.00	3769916.69
109.17598	(10092522)					
181.18353	468430.00	3769916.69	158.91212	(12121019)	468330.00	3769941.69
178.46613	(12092322)					
167.19519	468355.00	3769941.69	121.03784	(12121019)	468380.00	3769941.69
112.51936	(08112119)					
109.17598	468405.00	3769941.69	142.61522	(08112119)	468430.00	3769941.69
175.27860	(08112119)					
112.51936	468330.00	3769966.69	110.60282	(08112119)	468355.00	3769966.69
109.17598	(08112119)					
181.18353	468380.00	3769966.69	125.82846	(08112119)	468405.00	3769966.69
178.46613	(09111522)					
167.19519	468430.00	3769966.69	145.30657	(09040422)	468330.00	3769991.69
112.51936	(08112119)					
109.17598	468355.00	3769991.69	112.38783	(09111522)	468380.00	3769991.69
175.27860	(09040422)					
112.51936	468330.00	3770016.69	175.97101	(12071505)	468355.00	3770016.69
109.17598	(09040422)					
181.18353	468380.00	3770016.69	116.37497	(09092421)	468330.00	3770041.69
178.46613	(10101203)					
167.19519	468355.00	3770041.69	104.86981	(08121207)	468380.00	3770041.69
112.51936	(10022702)					
109.17598	468330.00	3770066.69	170.09104	(08100106)	468355.00	3770066.69
175.27860	(08062123)					
112.51936	468380.00	3770066.69	182.61457	(08102922)	468330.00	3770091.69
109.17598	(08062123)					
181.18353	468355.00	3770091.69	171.97618	(12091521)	468380.00	3770091.69
178.46613	(09093004)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB46 ***
 INCLUDING SOURCE(S): FWYEB46 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

X-COORD (M) CONC	Y-COORD (M) (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
220.06498	468330.00 (08092522)	206.47302	(08092522)	468355.00	3769866.69
238.67064	468380.00 (09092423)	229.07400	(08092522)	468405.00	3769866.69
192.65936	468430.00 (09092423)	151.73276	(09102104)	468330.00	3769891.69
216.37592	468355.00 (11082723)	202.84091	(09092423)	468380.00	3769891.69
149.11988	468405.00 (12093021)	137.59065	(09102322)	468430.00	3769891.69
114.86758	468330.00 (12093021)	185.51306	(08092421)	468355.00	3769916.69
133.11418	468380.00 (12093021)	123.08097	(12093021)	468405.00	3769916.69
179.40214	468430.00 (11100121)	144.49385	(10092522)	468330.00	3769941.69
120.40881	468355.00 (12121019)	111.85394	(10092522)	468380.00	3769941.69
141.14605	468405.00 (08112119)	130.65957	(08112119)	468430.00	3769941.69
110.30212	468330.00 (08112119)	176.28426	(10100524)	468355.00	3769966.69
123.56843	468380.00 (12101522)	117.43191	(08112119)	468405.00	3769966.69
173.19185	468430.00 (09121208)	132.62043	(09111522)	468330.00	3769991.69
111.15099	468355.00 (09111522)	104.45713	(09111522)	468380.00	3769991.69
177.10521	468330.00 (09082924)	172.48155	(12071505)	468355.00	3770016.69
171.95008	468380.00 (08080802)	108.31673	(09092421)	468330.00	3770041.69
180.56118	468355.00 (08100106)	176.27352	(09060205)	468380.00	3770041.69
174.36068	468330.00 (09090303)	167.63717	(08080201)	468355.00	3770066.69
166.51975	468380.00 (10081803)	181.64535	(08062123)	468330.00	3770091.69
179.25016	468355.00 (12091521)	171.41520	(12091521)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB47 ***
 INCLUDING SOURCE(S): FWYEB47 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
205.41520	468330.00	3769866.69	194.12627	(08092522)	468355.00	3769866.69
221.26951	468380.00	3769866.69	212.25026	(08092522)	468405.00	3769866.69
180.45173	468430.00	3769866.69	138.53826	(09102322)	468330.00	3769891.69
201.40857	468355.00	3769891.69	189.22534	(11082723)	468380.00	3769891.69
136.51458	468405.00	3769891.69	126.62837	(09102322)	468430.00	3769891.69
106.71971	468330.00	3769916.69	173.91452	(08092421)	468355.00	3769916.69
122.67527	468380.00	3769916.69	113.99217	(12093021)	468405.00	3769916.69
168.16943	468430.00	3769916.69	132.59541	(10092522)	468330.00	3769941.69
111.64968	468355.00	3769941.69	104.03599	(10092522)	468380.00	3769941.69
130.09998	468405.00	3769941.69	120.36320	(08112119)	468430.00	3769941.69
102.70125	468330.00	3769966.69	165.25345	(10100524)	468355.00	3769966.69
115.24916	468380.00	3769966.69	109.47537	(08112119)	468405.00	3769966.69
163.13110	468430.00	3769966.69	122.76390	(09111522)	468330.00	3769991.69
103.83377	468355.00	3769991.69	97.77048	(08112119)	468380.00	3769991.69
166.78910	468330.00	3770016.69	161.94596	(08100102)	468355.00	3770016.69
162.51580	468380.00	3770016.69	101.18512	(09040422)	468330.00	3770041.69
171.08329	468355.00	3770041.69	166.69751	(10101203)	468380.00	3770041.69
163.86727	468330.00	3770066.69	159.37517	(08080201)	468355.00	3770066.69
158.29471	468380.00	3770066.69	171.72125	(08062123)	468330.00	3770091.69
170.99716	468355.00	3770091.69	161.33456	(08120708)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB48 ***
 INCLUDING SOURCE(S): FWYEB48 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

X-COORD (M) CONC (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
468330.00	3769866.69	182.63196	(08092522)	468355.00	3769866.69
191.99480	(08092522)				
468380.00	3769866.69	197.32269	(12071822)	468405.00	3769866.69
205.74410	(09092423)				
468430.00	3769866.69	127.71123	(09102322)	468330.00	3769891.69
169.35784	(12071822)				
468355.00	3769891.69	177.54751	(11082723)	468380.00	3769891.69
188.03747	(11082723)				
468405.00	3769891.69	117.08485	(09102322)	468430.00	3769891.69
125.63479	(12093021)				
468330.00	3769916.69	163.45810	(08092421)	468355.00	3769916.69
99.51679	(12093021)				
468380.00	3769916.69	105.99576	(12093021)	468405.00	3769916.69
113.54362	(12092322)				
468430.00	3769916.69	122.22990	(10092522)	468330.00	3769941.69
158.10105	(12121704)				
468355.00	3769941.69	97.07944	(10092522)	468380.00	3769941.69
103.87047	(12121019)				
468405.00	3769941.69	111.25531	(08112119)	468430.00	3769941.69
120.27912	(08112119)				
468330.00	3769966.69	155.09638	(10100524)	468355.00	3769966.69
95.85604	(08112119)				
468380.00	3769966.69	102.26609	(08112119)	468405.00	3769966.69
107.90219	(08112119)				
468430.00	3769966.69	113.76185	(09111522)	468330.00	3769991.69
153.58008	(09121208)				
468355.00	3769991.69	92.30513	(08112119)	468380.00	3769991.69
97.06159	(09111522)				
468330.00	3770016.69	151.78934	(08100102)	468355.00	3770016.69
157.74485	(12071505)				
468380.00	3770016.69	94.51538	(09040422)	468330.00	3770041.69
154.61062	(08103121)				
468355.00	3770041.69	157.60834	(09082924)	468380.00	3770041.69
161.28995	(09060205)				
468330.00	3770066.69	150.28307	(08080201)	468355.00	3770066.69
154.00734	(08080201)				
468380.00	3770066.69	160.95207	(09090303)	468330.00	3770091.69
149.61074	(09090303)				
468355.00	3770091.69	153.15167	(08120708)	468380.00	3770091.69
160.40749	(12091521)				

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB49 ***
 INCLUDING SOURCE(S): FWYEB49 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
179.06188	468330.00	3769866.69	171.35182	(08092522)	468355.00	3769866.69
191.30166	468380.00	3769866.69	184.54859	(12071822)	468405.00	3769866.69
158.62841	468430.00	3769866.69	118.26659	(09102322)	468330.00	3769891.69
175.30918	468355.00	3769891.69	166.29819	(11082723)	468380.00	3769891.69
116.17841	468405.00	3769891.69	108.73012	(09102322)	468430.00	3769891.69
93.11999	468330.00	3769916.69	153.55793	(08092421)	468355.00	3769916.69
105.51271	468380.00	3769916.69	98.92546	(12093021)	468405.00	3769916.69
148.54418	468430.00	3769916.69	113.15059	(10092522)	468330.00	3769941.69
96.94137	468355.00	3769941.69	90.86704	(10092522)	468380.00	3769941.69
111.53740	468405.00	3769941.69	103.41227	(12121019)	468430.00	3769941.69
89.68469	468330.00	3769966.69	145.90640	(11100121)	468355.00	3769966.69
101.18779	468380.00	3769966.69	95.73616	(08112119)	468405.00	3769966.69
144.19879	468430.00	3769966.69	105.74079	(12091601)	468330.00	3769991.69
90.82169	468355.00	3769991.69	87.23979	(08112119)	468380.00	3769991.69
148.33844	468330.00	3770016.69	143.96895	(08051523)	468355.00	3770016.69
145.93343	468380.00	3770016.69	88.25825	(09040422)	468330.00	3770041.69
152.38505	468355.00	3770041.69	148.88931	(09082924)	468380.00	3770041.69
146.10085	468330.00	3770066.69	142.68606	(08080802)	468355.00	3770066.69
140.30515	468380.00	3770066.69	150.74712	(09090303)	468330.00	3770091.69
151.35186	468355.00	3770091.69	145.24160	(09090303)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB50 ***
 INCLUDING SOURCE(S): FWYEB50 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
167.34395	468330.00	3769866.69	161.00678	(08092522)	468355.00	3769866.69
178.41322	(08092522)					
148.95486	468380.00	3769866.69	173.01254	(12071822)	468405.00	3769866.69
164.15253	(09092423)					
107.87909	468430.00	3769866.69	109.94651	(09102322)	468330.00	3769891.69
87.39652	(09092423)					
98.39148	468355.00	3769891.69	156.19966	(11082723)	468380.00	3769891.69
139.89957	(08092421)					
143.63892	468405.00	3769891.69	101.34594	(09102322)	468430.00	3769891.69
138.46267	(12093021)					
136.18038	468330.00	3769916.69	144.64367	(08092421)	468355.00	3769916.69
134.09464	(12093021)					
143.23094	468380.00	3769916.69	92.62451	(12093021)	468405.00	3769916.69
	(12093021)					
	468430.00	3769916.69	105.13078	(10092522)	468330.00	3769941.69
	(12121704)					
	468355.00	3769941.69	85.36696	(12092322)	468380.00	3769941.69
	(12121019)					
	468405.00	3769941.69	96.71802	(12121019)	468430.00	3769941.69
	(08112119)					
	468330.00	3769966.69	138.13705	(11100121)	468355.00	3769966.69
	(08112119)					
	468380.00	3769966.69	89.79397	(08112119)	468405.00	3769966.69
	(08112119)					
	468430.00	3769966.69	99.48274	(08112119)	468330.00	3769991.69
	(08021019)					
	468355.00	3769991.69	82.53456	(08112119)	468380.00	3769991.69
	(08112119)					
	468330.00	3770016.69	136.50878	(08051523)	468355.00	3770016.69
	(12071505)					
	468380.00	3770016.69	82.51224	(09111522)	468330.00	3770041.69
	(08100102)					
	468355.00	3770041.69	140.06862	(09082924)	468380.00	3770041.69
	(09082924)					
	468330.00	3770066.69	136.13142	(08080802)	468355.00	3770066.69
	(10101203)					
	468380.00	3770066.69	142.70199	(09060205)	468330.00	3770091.69
	(08080201)					
	468355.00	3770091.69	136.91168	(09090303)	468380.00	3770091.69
	(08062123)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB51 ***
 INCLUDING SOURCE(S): FWYEB51 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
157.92718	468330.00	3769866.69	151.12336	(08092522)	468355.00	3769866.69
166.71217	(12071822)					
140.41152	468380.00	3769866.69	162.89033	(12071822)	468405.00	3769866.69
154.83172	(09092423)					
100.63200	468430.00	3769866.69	102.88546	(09102322)	468330.00	3769891.69
82.26894	(11082723)					
132.33042	468355.00	3769891.69	147.43241	(11082723)	468380.00	3769891.69
135.96463	(08092421)					
127.38651	468405.00	3769891.69	94.58517	(09102322)	468430.00	3769891.69
131.35502	(12093021)					
127.38651	468330.00	3769916.69	136.44203	(08092421)	468355.00	3769916.69
131.54999	(12093021)					
127.38651	468380.00	3769916.69	86.83828	(12093021)	468405.00	3769916.69
131.54999	(12092322)					
127.38651	468430.00	3769916.69	98.13836	(10092522)	468330.00	3769941.69
131.54999	(12121704)					
127.38651	468355.00	3769941.69	80.38413	(12092322)	468380.00	3769941.69
131.54999	(12121019)					
127.38651	468405.00	3769941.69	90.65519	(12121019)	468430.00	3769941.69
131.54999	(08112119)					
127.38651	468330.00	3769966.69	130.54285	(11100121)	468355.00	3769966.69
131.54999	(08112119)					
127.38651	468380.00	3769966.69	84.45308	(08112119)	468405.00	3769966.69
131.54999	(08112119)					
127.38651	468430.00	3769966.69	93.36702	(08112119)	468330.00	3769991.69
131.54999	(08021019)					
127.38651	468355.00	3769991.69	77.99762	(08112119)	468380.00	3769991.69
131.54999	(08112119)					
127.38651	468330.00	3770016.69	129.33326	(12112419)	468355.00	3770016.69
131.54999	(12071505)					
127.38651	468380.00	3770016.69	78.06188	(09111522)	468330.00	3770041.69
131.54999	(08100102)					
127.38651	468355.00	3770041.69	132.55229	(08103121)	468380.00	3770041.69
131.54999	(09082924)					
127.38651	468330.00	3770066.69	129.28343	(08080802)	468355.00	3770066.69
131.54999	(10101203)					
127.38651	468380.00	3770066.69	135.53983	(09060205)	468330.00	3770091.69
131.54999	(08080201)					
127.38651	468355.00	3770091.69	128.64304	(09090303)	468380.00	3770091.69
131.54999	(09090303)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB52 ***
 INCLUDING SOURCE(S): FWYEB52 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
149.72904	468330.00	3769866.69	142.64259	(12071822)	468355.00	3769866.69
155.83031	468380.00	3769866.69	153.27889	(12071822)	468405.00	3769866.69
133.45425	468430.00	3769866.69	96.46188	(09102322)	468330.00	3769891.69
146.20434	468355.00	3769891.69	139.25380	(11082723)	468380.00	3769891.69
94.14027	468405.00	3769891.69	88.49584	(09102322)	468430.00	3769891.69
77.60993	468330.00	3769916.69	128.89165	(08092421)	468355.00	3769916.69
86.54328	468380.00	3769916.69	81.62005	(12093021)	468405.00	3769916.69
125.41443	468430.00	3769916.69	91.90359	(10092522)	468330.00	3769941.69
80.38871	468355.00	3769941.69	75.91987	(10092522)	468380.00	3769941.69
90.77143	468405.00	3769941.69	85.21666	(12121019)	468430.00	3769941.69
74.86751	468330.00	3769966.69	123.63476	(11100121)	468355.00	3769966.69
84.03584	468380.00	3769966.69	79.63027	(08112119)	468405.00	3769966.69
122.22182	468430.00	3769966.69	87.85371	(08112119)	468330.00	3769991.69
76.66394	468355.00	3769991.69	73.86501	(08112119)	468380.00	3769991.69
123.95493	468330.00	3770016.69	122.75708	(12112419)	468355.00	3770016.69
124.69224	468380.00	3770016.69	73.96593	(09111522)	468330.00	3770041.69
128.81317	468355.00	3770041.69	125.60344	(08103121)	468380.00	3770041.69
124.79525	468330.00	3770066.69	122.78610	(08103121)	468355.00	3770066.69
120.82194	468380.00	3770066.69	128.50004	(09060205)	468330.00	3770091.69
128.86166	468355.00	3770091.69	122.69180	(08080201)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB53 ***
 INCLUDING SOURCE(S): FWYEB53 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
141.82718	468330.00	3769866.69	136.01481	(12071822)	468355.00	3769866.69
146.09964	468380.00	3769866.69	144.20246	(12071822)	468405.00	3769866.69
126.87105	468430.00	3769866.69	90.60624	(09102322)	468330.00	3769891.69
138.21496	468355.00	3769891.69	131.63671	(08092421)	468380.00	3769891.69
88.29834	468405.00	3769891.69	83.19033	(12093021)	468430.00	3769891.69
73.36143	468330.00	3769916.69	122.06935	(10082023)	468355.00	3769916.69
81.48892	468380.00	3769916.69	76.89413	(12093021)	468405.00	3769916.69
119.07368	468430.00	3769916.69	86.31342	(10092522)	468330.00	3769941.69
75.95045	468355.00	3769941.69	71.87275	(10092522)	468380.00	3769941.69
85.29370	468405.00	3769941.69	80.31344	(12121019)	468430.00	3769941.69
70.88020	468330.00	3769966.69	117.32666	(11100121)	468355.00	3769966.69
79.31535	468380.00	3769966.69	75.25571	(08112119)	468405.00	3769966.69
116.11294	468430.00	3769966.69	82.86238	(08112119)	468330.00	3769991.69
72.71880	468355.00	3769991.69	70.08695	(08112119)	468380.00	3769991.69
118.00814	468330.00	3770016.69	117.03347	(09121208)	468355.00	3770016.69
118.44716	468380.00	3770016.69	70.18819	(09111522)	468330.00	3770041.69
121.95910	468355.00	3770041.69	119.46490	(12071505)	468380.00	3770041.69
119.22001	468330.00	3770066.69	117.36948	(08103121)	468355.00	3770066.69
114.66140	468380.00	3770066.69	122.25569	(10101203)	468330.00	3770091.69
121.76973	468355.00	3770091.69	117.18182	(08080201)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB54 ***
 INCLUDING SOURCE(S): FWYEB54 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

X-COORD (M) CONC (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
134.26927 (12071822)	468330.00	3769866.69	129.55804 (12071822)	468355.00	3769866.69
137.65706 (10092905)	468380.00	3769866.69	135.67305 (12071822)	468405.00	3769866.69
120.66046 (11082723)	468430.00	3769866.69	85.26284 (09102322)	468330.00	3769891.69
130.81925 (08092421)	468355.00	3769891.69	125.25402 (08092421)	468380.00	3769891.69
83.02412 (12093021)	468405.00	3769891.69	78.53225 (12093021)	468430.00	3769891.69
69.47817 (12093021)	468330.00	3769916.69	116.08652 (10082023)	468355.00	3769916.69
76.91496 (12092322)	468380.00	3769916.69	72.69726 (12092322)	468405.00	3769916.69
113.24862 (12121704)	468430.00	3769916.69	81.28145 (10092522)	468330.00	3769941.69
71.91820 (12121019)	468355.00	3769941.69	68.18146 (10092522)	468380.00	3769941.69
80.35791 (08112119)	468405.00	3769941.69	75.87692 (12121019)	468430.00	3769941.69
67.24338 (08112119)	468330.00	3769966.69	111.55025 (11100121)	468355.00	3769966.69
75.02754 (08112119)	468380.00	3769966.69	71.27591 (08112119)	468405.00	3769966.69
110.50068 (08021019)	468430.00	3769966.69	78.32921 (08112119)	468330.00	3769991.69
69.10162 (08112119)	468355.00	3769991.69	66.62438 (08112119)	468380.00	3769991.69
112.47329 (12112419)	468330.00	3770016.69	111.73756 (09121208)	468355.00	3770016.69
112.59950 (08100102)	468380.00	3770016.69	66.69972 (09111522)	468330.00	3770041.69
115.48604 (09082924)	468355.00	3770041.69	114.01609 (12071505)	468380.00	3770041.69
113.82044 (09082924)	468330.00	3770066.69	112.16727 (08103121)	468355.00	3770066.69
109.98564 (08080802)	468380.00	3770066.69	116.60170 (10101203)	468330.00	3770091.69
114.81501 (08080201)	468355.00	3770091.69	111.72257 (08080201)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYEB55 ***
 INCLUDING SOURCE(S): FWYEB55 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
125.38082	468330.00	3769866.69	121.70281	(12071822)	468355.00	3769866.69
128.84887	468380.00	3769866.69	126.78852	(10092905)	468405.00	3769866.69
113.12769	468430.00	3769866.69	80.40709	(09102322)	468330.00	3769891.69
122.65299	468355.00	3769891.69	118.03451	(08092421)	468380.00	3769891.69
78.26547	468405.00	3769891.69	74.29827	(12093021)	468430.00	3769891.69
65.93339	468330.00	3769916.69	109.34381	(10082023)	468355.00	3769916.69
72.77760	468380.00	3769916.69	68.98749	(12092322)	468405.00	3769916.69
106.79372	468430.00	3769916.69	76.75189	(10092522)	468330.00	3769941.69
68.26291	468355.00	3769941.69	64.81751	(10092522)	468380.00	3769941.69
75.91791	468405.00	3769941.69	71.87089	(12121019)	468430.00	3769941.69
63.97131	468330.00	3769966.69	105.11717	(09012302)	468355.00	3769966.69
71.14275	468380.00	3769966.69	67.66374	(08112119)	468405.00	3769966.69
104.23725	468430.00	3769966.69	74.22463	(08112119)	468330.00	3769991.69
65.79729	468355.00	3769991.69	63.46098	(08112119)	468380.00	3769991.69
106.16110	468330.00	3770016.69	105.85334	(09121208)	468355.00	3770016.69
105.68265	468380.00	3770016.69	63.49169	(09111522)	468330.00	3770041.69
108.47193	468355.00	3770041.69	107.83260	(12071505)	468380.00	3770041.69
107.56362	468330.00	3770066.69	105.79101	(08103121)	468355.00	3770066.69
104.38860	468380.00	3770066.69	110.06084	(10101203)	468330.00	3770091.69
109.27002	468355.00	3770091.69	105.67502	(10101203)	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB1 ***
 INCLUDING SOURCE(S): FWYWB1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
64.51871	468330.00	3769866.69	67.96503	(08071622)	468355.00	3769866.69
58.23076	(08071622)					
67.82833	468380.00	3769866.69	61.25049	(08071622)	468405.00	3769866.69
61.19330	(10022319)					
55.58171	468430.00	3769866.69	55.56833	(10022319)	468330.00	3769891.69
63.53510	(12083021)					
58.14448	468355.00	3769891.69	64.37665	(12083021)	468380.00	3769891.69
67.58974	(12083021)					
61.41506	468405.00	3769891.69	58.18207	(12083021)	468430.00	3769891.69
56.02810	(08071622)					
64.37775	468330.00	3769916.69	67.24793	(08071224)	468355.00	3769916.69
58.16839	(08071224)					
65.78766	468380.00	3769916.69	60.71374	(12083021)	468405.00	3769916.69
60.69812	(12083021)					
61.65011	468430.00	3769916.69	55.72710	(12083021)	468330.00	3769941.69
64.18306	(08071224)					
58.13887	468355.00	3769941.69	64.34438	(08071224)	468380.00	3769941.69
60.86232	(08071224)					
62.06920	468405.00	3769941.69	58.64645	(08071224)	468430.00	3769941.69
56.83339	(08071224)					
	468330.00	3769966.69	67.86504	(12071224)	468355.00	3769966.69
	(12071224)					
	468380.00	3769966.69	61.19491	(12071224)	468405.00	3769966.69
	(12071224)					
	468430.00	3769966.69	55.29376	(12071224)	468330.00	3769991.69
	(12071224)					
	468355.00	3769991.69	63.16204	(12071224)	468380.00	3769991.69
	(12071224)					
	468330.00	3770016.69	64.54126	(10102318)	468355.00	3770016.69
	(10102318)					
	468380.00	3770016.69	58.82634	(10102318)	468330.00	3770041.69
	(10071722)					
	468355.00	3770041.69	60.96277	(10080321)	468380.00	3770041.69
	(10080321)					
	468330.00	3770066.69	63.54040	(10071722)	468355.00	3770066.69
	(10071722)					
	468380.00	3770066.69	58.12216	(10071722)	468330.00	3770091.69
	(09061821)					
	468355.00	3770091.69	59.20536	(09061405)	468380.00	3770091.69
	(11080721)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB2 ***
 INCLUDING SOURCE(S): FWYWB2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
67.93504	468330.00 (08071622)	3769866.69	71.68903	(08071622)	468355.00	3769866.69
61.07509	468380.00 (08071622)	3769866.69	64.38401	(08071622)	468405.00	3769866.69
71.50941	468430.00 (12083021)	3769866.69	58.14115	(08071622)	468330.00	3769891.69
64.34136	468355.00 (12083021)	3769891.69	67.77722	(12083021)	468380.00	3769891.69
58.24425	468405.00 (12083021)	3769891.69	61.09608	(12083021)	468430.00	3769891.69
67.20049	468330.00 (08071224)	3769916.69	71.19732	(08071224)	468355.00	3769916.69
60.64696	468380.00 (12083021)	3769916.69	63.64673	(08071224)	468405.00	3769916.69
70.78319	468430.00 (08071224)	3769916.69	58.08914	(12083021)	468330.00	3769941.69
64.31194	468355.00 (08071224)	3769941.69	67.38280	(08071224)	468380.00	3769941.69
58.64917	468405.00 (08071224)	3769941.69	61.40378	(08071224)	468430.00	3769941.69
67.71711	468330.00 (12071224)	3769966.69	71.33420	(12071224)	468355.00	3769966.69
61.24591	468380.00 (12071224)	3769966.69	64.40680	(12071224)	468405.00	3769966.69
68.58442	468430.00 (09061602)	3769966.69	58.23349	(12071224)	468330.00	3769991.69
63.05325	468355.00 (12071224)	3769991.69	65.49618	(12071224)	468380.00	3769991.69
64.27269	468330.00 (10102318)	3770016.69	67.78223	(10080321)	468355.00	3770016.69
67.72359	468380.00 (10071722)	3770016.69	61.47750	(10102318)	468330.00	3770041.69
60.72293	468355.00 (10080321)	3770041.69	64.01984	(10071722)	468380.00	3770041.69
63.30199	468330.00 (10071722)	3770066.69	65.96128	(11080721)	468355.00	3770066.69
65.28472	468380.00 (08081422)	3770066.69	60.71861	(10071722)	468330.00	3770091.69
59.14975	468355.00 (09061405)	3770091.69	61.89940	(09061821)	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB3 ***
 INCLUDING SOURCE(S): FWYWB3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
71.68902	468330.00	3769866.69	75.79244	(08071622)	468355.00	3769866.69
64.22254	(08071622)		67.81871	(08071622)	468405.00	3769866.69
75.52698	468380.00	3769866.69	61.04263	(08071622)	468330.00	3769891.69
67.76611	(08071622)		71.48261	(12083021)	468380.00	3769891.69
61.18821	468430.00	3769866.69	64.26142	(12083021)	468430.00	3769891.69
71.15554	(12083021)		75.45885	(08071224)	468355.00	3769916.69
63.78676	468355.00	3769891.69	67.33353	(08071224)	468405.00	3769916.69
74.90755	(08071224)		60.60976	(12083021)	468330.00	3769941.69
67.35601	468430.00	3769916.69	70.56604	(08071224)	468380.00	3769941.69
61.41460	(08071224)		64.30788	(08071224)	468430.00	3769941.69
71.17322	468405.00	3769941.69	74.89791	(12071224)	468355.00	3769966.69
64.46444	(12071224)		67.75046	(12071224)	468405.00	3769966.69
72.32564	468380.00	3769966.69	61.31914	(12071224)	468330.00	3769991.69
65.37930	(10102318)		68.46417	(10102318)	468380.00	3769991.69
67.57696	468355.00	3769991.69	71.34046	(10080321)	468355.00	3770016.69
71.14344	(12071224)		64.07959	(10102318)	468330.00	3770041.69
63.88327	468380.00	3770016.69	67.53845	(10071722)	468380.00	3770041.69
65.76664	(10071722)		69.10137	(09061405)	468355.00	3770066.69
68.89120	468330.00	3770066.69	63.14151	(10071722)	468330.00	3770091.69
61.88589	(12081421)		65.14847	(08081422)	468380.00	3770091.69
	468355.00	3770091.69				
	(09061821)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB4 ***
 INCLUDING SOURCE(S): FWYWB4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
75.84798	468330.00	3769866.69	80.35205	(08071622)	468355.00	3769866.69
67.69270	(08071622)		71.61421	(08071622)	468405.00	3769866.69
79.94414	468380.00	3769866.69	64.23415	(08071622)	468330.00	3769891.69
71.51900	(08071622)		75.54976	(08071622)	468380.00	3769891.69
64.40381	468430.00	3769866.69	67.72484	(12083021)	468430.00	3769891.69
75.44081	(12083021)		80.07473	(12083021)	468355.00	3769916.69
67.51086	468330.00	3769916.69	71.32751	(08071224)	468405.00	3769916.69
79.80724	(08071224)		63.96287	(08071224)	468330.00	3769941.69
70.57247	468430.00	3769916.69	74.94136	(12071224)	468380.00	3769941.69
64.33966	(12071224)		67.37298	(12071224)	468430.00	3769941.69
74.73873	468355.00	3769941.69	78.53940	(08071224)	468355.00	3769966.69
67.82804	(08071224)		71.22509	(12071224)	468405.00	3769966.69
76.11730	468380.00	3769966.69	64.55826	(12071224)	468330.00	3769991.69
68.56766	(10102318)		72.22936	(10102318)	468380.00	3769991.69
71.13400	468355.00	3769991.69	75.45539	(10071722)	468355.00	3770016.69
74.35615	(10102318)		67.49815	(10080321)	468330.00	3770041.69
67.40161	468330.00	3770016.69	70.95218	(10071722)	468380.00	3770041.69
68.98709	(10071722)		73.01430	(08081422)	468355.00	3770066.69
72.37763	468380.00	3770066.69	65.73371	(09061405)	468330.00	3770091.69
65.19823	(12081421)		68.80833	(12081421)	468380.00	3770091.69
	468355.00	3770091.69				
	(08081422)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB5 ***
 INCLUDING SOURCE(S): FWYWB5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
80.28376	468330.00	3769866.69	85.23057	(08071622)	468355.00	3769866.69
71.36741	(08071622)					
84.59371	468380.00	3769866.69	75.64800	(08071622)	468405.00	3769866.69
75.45981	(08071622)					
67.77161	468430.00	3769866.69	67.60418	(08071622)	468330.00	3769891.69
79.92270	(12083021)					
71.41499	468355.00	3769891.69	79.82592	(12083021)	468380.00	3769891.69
84.86115	(12083021)					
75.06280	468405.00	3769891.69	71.35557	(12083021)	468430.00	3769891.69
72.21420	(12083021)					
77.98556	468330.00	3769916.69	84.89655	(08071224)	468355.00	3769916.69
70.65488	(08071224)					
72.84882	468380.00	3769916.69	75.51056	(08071224)	468405.00	3769916.69
75.20349	(08071224)					
68.78586	468430.00	3769916.69	67.60728	(08071224)	468330.00	3769941.69
	(12071224)					
	468355.00	3769941.69	79.70285	(12071224)	468380.00	3769941.69
	(12071224)					
	468405.00	3769941.69	70.71445	(12071224)	468430.00	3769941.69
	(08071224)					
	468330.00	3769966.69	82.04458	(12071224)	468355.00	3769966.69
	(12071224)					
	468380.00	3769966.69	74.66643	(12071224)	468405.00	3769966.69
	(12071224)					
	468430.00	3769966.69	67.82467	(12071224)	468330.00	3769991.69
	(10080321)					
	468355.00	3769991.69	75.87124	(10102318)	468380.00	3769991.69
	(10102318)					
	468330.00	3770016.69	80.05123	(10071722)	468355.00	3770016.69
	(10071722)					
	468380.00	3770016.69	70.90016	(10080321)	468330.00	3770041.69
	(09061405)					
	468355.00	3770041.69	73.98862	(10071722)	468380.00	3770041.69
	(10071722)					
	468330.00	3770066.69	77.35805	(12081421)	468355.00	3770066.69
	(08081422)					
	468380.00	3770066.69	68.87499	(09061821)	468330.00	3770091.69
	(08071523)					
	468355.00	3770091.69	72.12892	(12081421)	468380.00	3770091.69
	(12081421)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR

SOURCE GROUP: FWYWB6 *** INCLUDING SOURCE(S): FWYWB6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
85.57604	468330.00 (08071622)	3769866.69	91.07093	(08071622)	468355.00	3769866.69
75.74203	468380.00 (08071622)	3769866.69	80.45316	(08071622)	468405.00	3769866.69
90.12080	468430.00 (12083021)	3769866.69	71.60789	(08071622)	468330.00	3769891.69
80.12310	468355.00 (12083021)	3769891.69	84.89742	(12083021)	468380.00	3769891.69
71.73961	468405.00 (12083021)	3769891.69	75.64688	(12083021)	468430.00	3769891.69
85.06347	468330.00 (08071224)	3769916.69	90.42360	(08071224)	468355.00	3769916.69
75.87925	468380.00 (08071224)	3769916.69	80.30165	(08071224)	468405.00	3769916.69
90.53667	468430.00 (12071224)	3769916.69	71.76738	(08071224)	468330.00	3769941.69
80.12908	468355.00 (12071224)	3769941.69	85.06944	(12071224)	468380.00	3769941.69
71.11999	468405.00 (12071224)	3769941.69	75.48251	(12071224)	468430.00	3769941.69
82.00851	468330.00 (12071224)	3769966.69	86.96275	(10102318)	468355.00	3769966.69
74.88740	468380.00 (12071224)	3769966.69	78.42636	(12071224)	468405.00	3769966.69
85.31993	468430.00 (10080321)	3769966.69	71.42331	(12071224)	468330.00	3769991.69
76.10819	468355.00 (10102318)	3769991.69	80.30498	(10080321)	468380.00	3769991.69
80.14505	468330.00 (10071722)	3770016.69	84.86232	(10071722)	468355.00	3770016.69
82.66844	468380.00 (08081422)	3770016.69	75.45105	(10071722)	468330.00	3770041.69
73.97236	468355.00 (10071722)	3770041.69	78.03222	(09061405)	468380.00	3770041.69
77.55109	468330.00 (12081421)	3770066.69	82.08887	(12081421)	468355.00	3770066.69
80.05112	468380.00 (10011018)	3770066.69	73.07407	(08081422)	468330.00	3770091.69
72.36092	468355.00 (12081421)	3770091.69	75.35835	(08071523)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB7 ***
 INCLUDING SOURCE(S): FWYWB7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
90.99808	468330.00	3769866.69	97.07624	(08071622)	468355.00	3769866.69
80.17776	(08071622)		85.35183	(08071622)	468405.00	3769866.69
96.06601	468380.00	3769866.69	75.65269	(08071622)	468330.00	3769891.69
84.78417	(08071622)		89.96895	(12083021)	468380.00	3769891.69
75.69966	468430.00	3769866.69	79.92888	(12083021)	468430.00	3769891.69
90.19367	(08071224)		95.91869	(08071224)	468355.00	3769916.69
80.36956	468355.00	3769891.69	85.10405	(08071224)	468405.00	3769916.69
96.05306	(08071224)		75.96292	(08071224)	468330.00	3769941.69
85.15159	468430.00	3769916.69	90.33941	(12071224)	468380.00	3769941.69
75.61851	(12071224)		80.24490	(12071224)	468430.00	3769941.69
86.81307	468355.00	3769941.69	92.39161	(10102318)	468355.00	3769966.69
78.32619	(10102318)		81.85219	(12071224)	468405.00	3769966.69
90.94636	468380.00	3769966.69	74.82875	(12071224)	468330.00	3769991.69
80.39919	(12071224)		85.08740	(10080321)	468380.00	3769991.69
84.48601	468355.00	3769991.69	88.98841	(11080721)	468355.00	3770016.69
88.15325	(10080321)		79.95414	(10071722)	468330.00	3770041.69
77.80581	468330.00	3770016.69	82.47975	(08081422)	468380.00	3770041.69
81.85594	(09061405)		85.76131	(12081421)	468355.00	3770066.69
84.25284	468380.00	3770066.69	77.47151	(12081421)	468330.00	3770091.69
75.36981	(12081421)		79.90876	(10011018)	468380.00	3770091.69
	468355.00	3770091.69				
	(08071523)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB8 ***
 INCLUDING SOURCE(S): FWYWB8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
96.85817	468330.00	3769866.69	103.66864	(12083021)	468355.00	3769866.69
84.93476	(08071622)					
103.42265	468380.00	3769866.69	90.62582	(08071622)	468405.00	3769866.69
89.70637	(08071622)					
79.87560	468430.00	3769866.69	79.97688	(08071622)	468330.00	3769891.69
95.51417	(08071224)					
85.06160	468355.00	3769891.69	96.11278	(08071224)	468380.00	3769891.69
90.28493	(12083021)					
80.28065	468405.00	3769891.69	84.44624	(12083021)	468430.00	3769891.69
92.05965	(12083021)					
81.79881	468330.00	3769916.69	103.00784	(12071224)	468355.00	3769916.69
97.07483	(08071224)					
85.02262	468380.00	3769916.69	90.10619	(08071224)	468405.00	3769916.69
88.65189	(08071224)					
79.84127	468430.00	3769916.69	80.35717	(08071224)	468330.00	3769941.69
	(12071224)					
	468355.00	3769941.69	95.67026	(12071224)	468380.00	3769941.69
	(12071224)					
	468405.00	3769941.69	85.15083	(12071224)	468430.00	3769941.69
	(12071224)					
	468330.00	3769966.69	97.65203	(10080321)	468355.00	3769966.69
	(10102318)					
	468380.00	3769966.69	86.79595	(10102318)	468405.00	3769966.69
	(09061602)					
	468430.00	3769966.69	78.14901	(12071224)	468330.00	3769991.69
	(10071722)					
	468355.00	3769991.69	90.69476	(10071722)	468380.00	3769991.69
	(10080321)					
	468330.00	3770016.69	94.38734	(10110218)	468355.00	3770016.69
	(09061405)					
	468380.00	3770016.69	84.10479	(10071722)	468330.00	3770041.69
	(12081421)					
	468355.00	3770041.69	87.84258	(12081421)	468380.00	3770041.69
	(08081422)					
	468330.00	3770066.69	91.37889	(10011018)	468355.00	3770066.69
	(08071523)					
	468380.00	3770066.69	81.59951	(12081421)	468330.00	3770091.69
	(09092721)					
	468355.00	3770091.69	83.93046	(10011018)	468380.00	3770091.69
	(10011018)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB9 ***
 INCLUDING SOURCE(S): FWYWB9 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
104.15994	468330.00	3769866.69	112.19737	(12083021)	468355.00	3769866.69
90.57361	(12083021)					
111.97267	468380.00	3769866.69	96.88588	(08071622)	468405.00	3769866.69
96.53315	(08071622)					
84.75515	468430.00	3769866.69	85.08934	(08071622)	468330.00	3769891.69
103.30405	(08071224)					
90.35812	468355.00	3769891.69	103.84677	(08071224)	468380.00	3769891.69
107.50563	(08071224)					
95.92894	468405.00	3769891.69	89.82983	(08071224)	468430.00	3769891.69
87.09469	(12083021)					
103.38765	468330.00	3769916.69	111.59487	(12071224)	468355.00	3769916.69
91.19262	(12071224)					
94.38483	468380.00	3769916.69	95.98648	(12071224)	468405.00	3769916.69
98.97311	(08071224)					
87.92021	468430.00	3769916.69	85.31659	(08071224)	468330.00	3769941.69
91.44122	(12071224)					
92.76123	468355.00	3769941.69	101.49098	(12071224)	468380.00	3769941.69
84.02338	(12071224)					
	468405.00	3769941.69	90.57066	(12071224)	468430.00	3769941.69
	(12071224)					
	468330.00	3769966.69	105.01980	(10080321)	468355.00	3769966.69
	(10080321)					
	468380.00	3769966.69	92.32309	(10102318)	468405.00	3769966.69
	(10102318)					
	468430.00	3769966.69	82.02516	(09061602)	468330.00	3769991.69
	(10071722)					
	468355.00	3769991.69	97.19936	(10071722)	468380.00	3769991.69
	(10071722)					
	468330.00	3770016.69	101.31670	(08081422)	468355.00	3770016.69
	(10110218)					
	468380.00	3770016.69	88.73166	(09061405)	468330.00	3770041.69
	(12081421)					
	468355.00	3770041.69	93.76636	(12081421)	468380.00	3770041.69
	(12081421)					
	468330.00	3770066.69	96.74455	(10011018)	468355.00	3770066.69
	(10011018)					
	468380.00	3770066.69	85.61102	(08071523)	468330.00	3770091.69
	(10071222)					
	468355.00	3770091.69	88.30234	(09092721)	468380.00	3770091.69
	(10011018)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB10 ***
 INCLUDING SOURCE(S): FWYWB10 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
113.60296	468330.00	3769866.69	122.82685	(12083021)	468355.00	3769866.69
97.70759	468380.00	3769866.69	105.23374	(12083021)	468405.00	3769866.69
122.26535	468430.00	3769866.69	91.40818	(08071622)	468330.00	3769891.69
104.92526	468355.00	3769891.69	113.13100	(08071224)	468380.00	3769891.69
90.87705	468405.00	3769891.69	97.43360	(08071224)	468430.00	3769891.69
112.63130	468330.00	3769916.69	121.70845	(12071224)	468355.00	3769916.69
97.15240	468380.00	3769916.69	104.56585	(12071224)	468405.00	3769916.69
116.57505	468430.00	3769916.69	91.11331	(08071224)	468330.00	3769941.69
102.35392	468355.00	3769941.69	108.11147	(09061602)	468380.00	3769941.69
91.36104	468405.00	3769941.69	96.76025	(12071224)	468430.00	3769941.69
106.06310	468330.00	3769966.69	114.71120	(10071722)	468355.00	3769966.69
93.11711	468380.00	3769966.69	99.21031	(10080321)	468405.00	3769966.69
111.11652	468430.00	3769966.69	87.86128	(10102318)	468330.00	3769991.69
98.43108	468355.00	3769991.69	104.29270	(10071722)	468380.00	3769991.69
102.23034	468330.00	3770016.69	110.27068	(12081421)	468355.00	3770016.69
107.10624	468380.00	3770016.69	95.10188	(09061821)	468330.00	3770041.69
94.44456	468355.00	3770041.69	99.58003	(08071523)	468380.00	3770041.69
97.20247	468330.00	3770066.69	103.17759	(09092721)	468355.00	3770066.69
99.69748	468380.00	3770066.69	92.04280	(10011018)	468330.00	3770091.69
89.11020	468355.00	3770091.69	93.48201	(10071222)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB11 ***
 INCLUDING SOURCE(S): FWYWB11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
124.46928	468330.00	3769866.69	135.11923	(12083021)	468355.00	3769866.69
106.38848	468380.00	3769866.69	114.91746	(12083021)	468405.00	3769866.69
133.88785	468430.00	3769866.69	98.98221	(12083021)	468330.00	3769891.69
114.38046	468355.00	3769891.69	123.60541	(08071224)	468380.00	3769891.69
98.62938	468405.00	3769891.69	105.99606	(08071224)	468430.00	3769891.69
122.93492	468330.00	3769916.69	132.80251	(12071224)	468355.00	3769916.69
105.88644	468380.00	3769916.69	114.06630	(12071224)	468405.00	3769916.69
126.76017	468430.00	3769916.69	98.36235	(12071224)	468330.00	3769941.69
109.46444	468355.00	3769941.69	117.66310	(10102318)	468380.00	3769941.69
97.62797	468405.00	3769941.69	103.26587	(12071224)	468430.00	3769941.69
116.23959	468330.00	3769966.69	125.66169	(10071722)	468355.00	3769966.69
100.64078	468380.00	3769966.69	107.58508	(10080321)	468405.00	3769966.69
121.43033	468430.00	3769966.69	93.94359	(10102318)	468330.00	3769991.69
105.65997	468355.00	3769991.69	112.11305	(09081621)	468380.00	3769991.69
111.34339	468330.00	3770016.69	118.55802	(12081421)	468355.00	3770016.69
114.62941	468380.00	3770016.69	103.46563	(12081421)	468330.00	3770041.69
100.52990	468355.00	3770041.69	107.83635	(10011018)	468380.00	3770041.69
104.04893	468330.00	3770066.69	110.32628	(10071222)	468355.00	3770066.69
107.55052	468380.00	3770066.69	97.77479	(10011018)	468330.00	3770091.69
94.44275	468355.00	3770091.69	100.62162	(12072121)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB12 ***
 INCLUDING SOURCE(S): FWYWB12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
135.36097	468330.00	3769866.69	147.50339	(12083021)	468355.00	3769866.69
114.93021	468380.00	3769866.69	124.54072	(12083021)	468405.00	3769866.69
145.37060	468430.00	3769866.69	106.61068	(12083021)	468330.00	3769891.69
123.77379	468355.00	3769891.69	133.99047	(08071224)	468380.00	3769891.69
106.34042	468405.00	3769891.69	114.49449	(08071224)	468430.00	3769891.69
132.69779	468330.00	3769916.69	143.14722	(12071224)	468355.00	3769916.69
114.38510	468380.00	3769916.69	123.20581	(12071224)	468405.00	3769916.69
138.22252	468430.00	3769916.69	106.23021	(12071224)	468330.00	3769941.69
117.87169	468355.00	3769941.69	126.93809	(10080321)	468380.00	3769941.69
103.23270	468405.00	3769941.69	109.70696	(09062924)	468430.00	3769941.69
125.63509	468330.00	3769966.69	134.72199	(10071722)	468355.00	3769966.69
107.81763	468380.00	3769966.69	116.66208	(10071722)	468405.00	3769966.69
132.31426	468430.00	3769966.69	100.92949	(10080321)	468330.00	3769991.69
112.42937	468355.00	3769991.69	121.51252	(08081422)	468380.00	3769991.69
118.23207	468330.00	3770016.69	127.82225	(10011018)	468355.00	3770016.69
122.67461	468380.00	3770016.69	111.30882	(12081421)	468330.00	3770041.69
107.73977	468355.00	3770041.69	114.40354	(11070922)	468380.00	3770041.69
110.26925	468330.00	3770066.69	118.91774	(12072121)	468355.00	3770066.69
114.11066	468380.00	3770066.69	104.00675	(09092721)	468330.00	3770091.69
100.81282	468355.00	3770091.69	107.41526	(12072121)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB13 ***
 INCLUDING SOURCE(S): FWYWB13 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
147.59793	468330.00	3769866.69	161.48245	(12083021)	468355.00	3769866.69
124.43891	468380.00	3769866.69	135.30228	(12083021)	468405.00	3769866.69
160.69847	468430.00	3769866.69	115.06705	(12083021)	468330.00	3769891.69
134.00655	468355.00	3769891.69	145.47490	(12071224)	468380.00	3769891.69
114.74839	468405.00	3769891.69	123.75984	(08071224)	468430.00	3769891.69
142.79269	468330.00	3769916.69	154.04990	(10102318)	468355.00	3769916.69
123.38270	468380.00	3769916.69	132.78884	(12071224)	468405.00	3769916.69
151.82517	468430.00	3769916.69	114.61646	(12071224)	468330.00	3769941.69
127.35999	468355.00	3769941.69	138.14962	(10080321)	468380.00	3769941.69
109.84979	468405.00	3769941.69	117.99404	(10102318)	468430.00	3769941.69
134.40456	468330.00	3769966.69	146.03097	(08081422)	468355.00	3769966.69
116.98203	468380.00	3769966.69	125.84679	(10071722)	468405.00	3769966.69
142.22146	468430.00	3769966.69	108.15547	(10071722)	468330.00	3769991.69
121.81878	468355.00	3769991.69	132.26269	(12081421)	468380.00	3769991.69
127.62178	468330.00	3770016.69	136.85865	(09092721)	468355.00	3770016.69
131.25178	468380.00	3770016.69	118.05549	(08071523)	468330.00	3770041.69
114.28367	468355.00	3770041.69	122.37144	(09092721)	468380.00	3770041.69
118.83199	468330.00	3770066.69	126.44265	(09090921)	468355.00	3770066.69
121.76572	468380.00	3770066.69	110.21572	(10071222)	468330.00	3770091.69
107.38497	468355.00	3770091.69	114.05093	(11082421)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB14 ***
 INCLUDING SOURCE(S): FWYWB14 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
161.16124	468330.00	3769866.69	177.85988	(08071224)	468355.00	3769866.69
134.85437	(12083021)					
177.87586	468380.00	3769866.69	147.16262	(12083021)	468405.00	3769866.69
145.69477	(12083021)					
123.75929	468430.00	3769866.69	124.28634	(12083021)	468330.00	3769891.69
153.77880	(12071224)					
132.62391	468355.00	3769891.69	160.79819	(12071224)	468380.00	3769891.69
117.90769	(12071224)					
125.76592	468405.00	3769891.69	133.66736	(08071224)	468430.00	3769891.69
142.23871	(08071224)					
121.83609	468330.00	3769916.69	168.70909	(10102318)	468355.00	3769916.69
126.15992	(10102318)					
129.61692	468380.00	3769916.69	142.46730	(12071224)	468405.00	3769916.69
113.98443	(12071224)					
	468430.00	3769916.69	123.33176	(12071224)	468330.00	3769941.69
	(10071722)					
	468355.00	3769941.69	151.52992	(10071722)	468380.00	3769941.69
	(10080321)					
	468405.00	3769941.69	127.48137	(10080321)	468430.00	3769941.69
	(10102318)					
	468330.00	3769966.69	160.86700	(12081421)	468355.00	3769966.69
	(08081422)					
	468380.00	3769966.69	134.23462	(11080721)	468405.00	3769966.69
	(10071722)					
	468430.00	3769966.69	117.03998	(10071722)	468330.00	3769991.69
	(10011018)					
	468355.00	3769991.69	141.57767	(12081421)	468380.00	3769991.69
	(12081421)					
	468330.00	3770016.69	146.67153	(09092721)	468355.00	3770016.69
	(09092721)					
	468380.00	3770016.69	127.30100	(10011018)	468330.00	3770041.69
	(12072121)					
	468355.00	3770041.69	131.00427	(12072121)	468380.00	3770041.69
	(09092721)					
	468330.00	3770066.69	135.92708	(11082421)	468355.00	3770066.69
	(09090921)					
	468380.00	3770066.69	118.61447	(12072121)	468330.00	3770091.69
	(12071122)					
	468355.00	3770091.69	121.40557	(09071824)	468380.00	3770091.69
	(11082421)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB15 ***
 INCLUDING SOURCE(S): FWYWB15 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
178.04774	468330.00	3769866.69	198.74361	(08071224)	468355.00	3769866.69
146.03168	468380.00	3769866.69	160.16683	(08071224)	468405.00	3769866.69
195.96391	468430.00	3769866.69	134.19846	(12083021)	468330.00	3769891.69
160.66360	468355.00	3769891.69	177.32060	(12071224)	468380.00	3769891.69
133.11569	468405.00	3769891.69	145.70230	(12071224)	468430.00	3769891.69
167.57762	468330.00	3769916.69	185.96231	(10080321)	468355.00	3769916.69
141.37609	468380.00	3769916.69	153.41486	(10102318)	468405.00	3769916.69
179.26197	468430.00	3769916.69	131.90536	(12071224)	468330.00	3769941.69
151.19746	468355.00	3769941.69	164.48197	(10071722)	468380.00	3769941.69
127.27331	468405.00	3769941.69	138.01762	(10071722)	468430.00	3769941.69
159.93401	468330.00	3769966.69	174.07313	(12081421)	468355.00	3769966.69
133.54727	468380.00	3769966.69	145.59563	(08081422)	468405.00	3769966.69
166.18488	468430.00	3769966.69	125.16816	(10071722)	468330.00	3769991.69
140.83163	468355.00	3769991.69	153.48215	(10011018)	468380.00	3769991.69
145.64372	468330.00	3770016.69	159.79278	(12072121)	468355.00	3770016.69
152.61792	468380.00	3770016.69	135.58592	(09092721)	468330.00	3770041.69
130.43157	468355.00	3770041.69	141.02772	(12072121)	468380.00	3770041.69
134.93172	468330.00	3770066.69	144.94624	(12071122)	468355.00	3770066.69
136.82591	468380.00	3770066.69	125.55698	(09090921)	468330.00	3770091.69
120.78434	468355.00	3770091.69	128.72016	(12071122)	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB16 ***
 INCLUDING SOURCE(S): FWYWB16 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) CONC	Y-COORD (M) (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
198.19586	468330.00 (08071224)	222.02828	(08071224)	468355.00	3769866.69
159.87068	468380.00 (08071224)	177.61218	(08071224)	468405.00	3769866.69
214.14671	468430.00 (08071224)	144.88247	(12083021)	468330.00	3769891.69
176.42494	468355.00 (12071224)	194.40540	(12071224)	468380.00	3769891.69
145.76629	468405.00 (12071224)	160.05583	(12071224)	468430.00	3769891.69
184.69106	468330.00 (12071224)	207.28417	(10071722)	468355.00	3769916.69
152.80546	468380.00 (10071722)	167.21038	(10080321)	468405.00	3769916.69
199.58530	468430.00 (10102318)	140.14187	(09062924)	468330.00	3769941.69
163.26404	468355.00 (12081421)	177.96053	(09061821)	468380.00	3769941.69
137.89250	468405.00 (10071722)	150.61600	(10071722)	468430.00	3769941.69
172.09356	468330.00 (10071722)	190.71799	(10011018)	468355.00	3769966.69
145.15572	468380.00 (08071523)	159.20964	(12081421)	468405.00	3769966.69
179.10425	468430.00 (08081422)	132.95925	(09061821)	468330.00	3769991.69
152.60866	468355.00 (12072121)	164.65707	(09092721)	468380.00	3769991.69
158.38051	468330.00 (10011018)	171.77067	(11082421)	468355.00	3770016.69
163.22706	468380.00 (12072121)	144.55537	(10071222)	468330.00	3770041.69
139.58111	468355.00 (12071122)	151.31789	(11082421)	468380.00	3770041.69
143.84477	468330.00 (12072121)	153.86571	(11073121)	468355.00	3770066.69
144.86032	468380.00 (12071122)	134.07562	(09071824)	468330.00	3770091.69
127.88595	468355.00 (08070822)	135.62023	(11073121)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB17 ***
 INCLUDING SOURCE(S): FWYWB17 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
221.06344	468330.00	3769866.69	251.56781	(12071224)	468355.00	3769866.69
177.12734	(08071224)					
237.97543	468380.00	3769866.69	197.46185	(08071224)	468405.00	3769866.69
193.05757	(08071224)					
159.98548	468430.00	3769866.69	159.94994	(08071224)	468330.00	3769891.69
205.95863	(10102318)					
167.14111	468355.00	3769891.69	211.90451	(12071224)	468380.00	3769891.69
219.32197	(12071224)					
178.03952	468405.00	3769891.69	175.49694	(12071224)	468430.00	3769891.69
150.26765	(12071224)					
189.21360	468330.00	3769916.69	228.19270	(09061405)	468355.00	3769916.69
158.76882	(10071722)					
196.49810	468380.00	3769916.69	184.97984	(10071722)	468405.00	3769916.69
163.95890	(10080321)					
170.69905	468430.00	3769916.69	152.35281	(10102318)	468330.00	3769941.69
175.12362	(10011018)					
150.18580	468355.00	3769941.69	198.53209	(12081421)	468380.00	3769941.69
152.69885	(08081422)					
134.80195	468405.00	3769941.69	162.33825	(10071722)	468430.00	3769941.69
	(10071722)					
	468330.00	3769966.69	207.09751	(09092721)	468355.00	3769966.69
	(10011018)					
	468380.00	3769966.69	172.07502	(10011018)	468405.00	3769966.69
	(12081421)					
	468430.00	3769966.69	145.19782	(12081421)	468330.00	3769991.69
	(12072121)					
	468355.00	3769991.69	178.45800	(12072121)	468380.00	3769991.69
	(09092721)					
	468330.00	3770016.69	186.14115	(09071824)	468355.00	3770016.69
	(11082421)					
	468380.00	3770016.69	157.36893	(12072121)	468330.00	3770041.69
	(11073121)					
	468355.00	3770041.69	162.19219	(12071122)	468380.00	3770041.69
	(11082421)					
	468330.00	3770066.69	163.90803	(08070822)	468355.00	3770066.69
	(11073121)					
	468380.00	3770066.69	143.01106	(12071122)	468330.00	3770091.69
	(08082622)					
	468355.00	3770091.69	143.83782	(08070822)	468380.00	3770091.69
	(11073121)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB18 ***
 INCLUDING SOURCE(S): FWYWB18 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
251.70121	468330.00	3769866.69	288.81077	(12071224)	468355.00	3769866.69
196.29724	(12071224)					
270.76380	468380.00	3769866.69	220.11423	(12071224)	468405.00	3769866.69
211.19361	(08071224)					
174.85007	468430.00	3769866.69	176.75884	(08071224)	468330.00	3769891.69
112.10231	(10071722)					
174.85007	468355.00	3769891.69	236.82627	(10080321)	468380.00	3769891.69
112.10231	(10102318)					
174.85007	468405.00	3769891.69	191.26521	(12071224)	468430.00	3769891.69
112.10231	(12071224)					
226.72316	468330.00	3769916.69	258.86376	(12081421)	468355.00	3769916.69
185.09201	(09061405)					
185.09201	468380.00	3769916.69	205.24247	(10071722)	468405.00	3769916.69
244.55084	(10071722)					
198.05819	468430.00	3769916.69	166.91074	(10080321)	468330.00	3769941.69
161.44415	(10011018)					
204.98571	468355.00	3769941.69	218.56323	(10011018)	468380.00	3769941.69
171.94724	(12081421)					
215.37497	468405.00	3769941.69	177.98467	(08081422)	468430.00	3769941.69
184.19523	(11080721)					
187.70172	468330.00	3769966.69	230.21931	(12082501)	468355.00	3769966.69
161.03128	(10102919)					
162.62606	468380.00	3769966.69	188.09378	(10011018)	468405.00	3769966.69
143.02191	(10011018)					
	468430.00	3769966.69	158.19828	(12081421)	468330.00	3769991.69
	(09071824)					
	468355.00	3769991.69	194.89309	(10071101)	468380.00	3769991.69
	(12072121)					
	468330.00	3770016.69	201.36273	(11073121)	468355.00	3770016.69
	(12071122)					
	468380.00	3770016.69	169.69853	(11082421)	468330.00	3770041.69
	(08070822)					
	468355.00	3770041.69	173.60273	(11073121)	468380.00	3770041.69
	(12071122)					
	468330.00	3770066.69	174.21480	(08082622)	468355.00	3770066.69
	(08070822)					
	468380.00	3770066.69	151.56591	(11073121)	468330.00	3770091.69
	(08112519)					
	468355.00	3770091.69	152.06534	(08082622)	468380.00	3770091.69
	(08070822)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB19 ***
 INCLUDING SOURCE(S): FWYWB19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
287.44051	468330.00	3769866.69	329.58606	(12071224)	468355.00	3769866.69
219.87618	(12071224)		250.95024	(12071224)	468405.00	3769866.69
309.27100	468380.00	3769866.69	195.25687	(08071224)	468330.00	3769891.69
236.12410	(12071224)		270.15147	(10071722)	468380.00	3769891.69
189.79658	468430.00	3769866.69	210.02098	(10102318)	468430.00	3769891.69
257.17109	(10071722)		292.61518	(10011018)	468355.00	3769916.69
204.29333	468355.00	3769891.69	225.98727	(10110218)	468405.00	3769916.69
271.21247	(10080321)		184.98777	(10071722)	468330.00	3769941.69
218.25984	468405.00	3769891.69	241.71208	(10011018)	468380.00	3769941.69
177.88920	(12071224)		197.37889	(12081421)	468430.00	3769941.69
228.35941	468330.00	3769916.69	254.36132	(11082421)	468355.00	3769966.69
186.81176	(12082501)		204.39582	(10102919)	468405.00	3769966.69
234.61547	468380.00	3769966.69	171.65824	(10011018)	468330.00	3769991.69
194.25811	(10011018)		213.37539	(09071824)	468380.00	3769991.69
199.37580	468430.00	3769966.69	217.53335	(08070822)	468355.00	3770016.69
200.65048	(08062701)		183.05356	(12071122)	468330.00	3770041.69
171.93713	468355.00	3769991.69	185.87306	(08070822)	468380.00	3770041.69
172.69804	(11073121)		187.18118	(09111019)	468355.00	3770066.69
172.88721	468330.00	3770016.69	161.37445	(08070822)	468330.00	3770091.69
151.17394	(11073121)		161.72514	(08112519)	468380.00	3770091.69
	468380.00	3770066.69				
	(08082622)					
	468380.00	3770066.69				
	(09111019)					
	468355.00	3770091.69				
	(08082622)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB20 ***
 INCLUDING SOURCE(S): FWYWB20 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
325.83043	468330.00	3769866.69	378.99618	(10102318)	468355.00	3769866.69
249.54063	468380.00	3769866.69	285.00873	(12071224)	468405.00	3769866.69
358.12093	468430.00	3769866.69	219.82196	(12071224)	468330.00	3769891.69
269.19954	468355.00	3769891.69	306.09848	(10071722)	468380.00	3769891.69
209.24978	468405.00	3769891.69	234.68639	(10080321)	468430.00	3769891.69
290.80752	468330.00	3769916.69	329.97032	(09092721)	468355.00	3769916.69
225.81761	468380.00	3769916.69	256.43372	(12081421)	468405.00	3769916.69
306.91288	468430.00	3769916.69	203.14210	(10071722)	468330.00	3769941.69
240.30073	468355.00	3769941.69	269.87233	(12082501)	468380.00	3769941.69
196.52232	468405.00	3769941.69	217.76151	(10011018)	468430.00	3769941.69
251.66808	468330.00	3769966.69	281.10817	(08062701)	468355.00	3769966.69
203.65676	468380.00	3769966.69	227.07632	(12082501)	468405.00	3769966.69
256.36734	468430.00	3769966.69	186.03363	(09092721)	468330.00	3769991.69
212.11212	468355.00	3769991.69	232.56900	(11072702)	468380.00	3769991.69
214.98786	468330.00	3770016.69	234.46455	(09082321)	468355.00	3770016.69
218.58964	468380.00	3770016.69	197.53203	(11073121)	468330.00	3770041.69
183.92804	468355.00	3770041.69	198.75807	(09082321)	468380.00	3770041.69
186.04335	468330.00	3770066.69	197.25772	(08071524)	468355.00	3770066.69
178.50160	468380.00	3770066.69	171.45048	(09082321)	468330.00	3770091.69
160.95837	468355.00	3770091.69	171.10751	(09111019)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB21 ***
 INCLUDING SOURCE(S): FWYWB21 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
376.76258	468330.00	3769866.69	454.69799	(10071722)	468355.00	3769866.69
281.73440	(10080321)					
421.18342	468380.00	3769866.69	321.07335	(10102318)	468405.00	3769866.69
234.44554	(12071224)					
304.09821	468430.00	3769866.69	248.34059	(12071224)	468330.00	3769891.69
169.55387	(10011018)					
195.57105	468355.00	3769891.69	356.31123	(12081421)	468380.00	3769891.69
187.43442	(09061405)					
112.12121	468405.00	3769891.69	267.27495	(10071722)	468430.00	3769891.69
112.12121	(10071722)					
112.12121	468330.00	3769916.69	382.18664	(12082501)	468355.00	3769916.69
112.12121	(09092721)					
112.12121	468380.00	3769916.69	289.80006	(10011018)	468405.00	3769916.69
112.12121	(12081421)					
112.12121	468430.00	3769916.69	225.62373	(08081422)	468330.00	3769941.69
112.12121	(12071122)					
112.12121	468355.00	3769941.69	303.60220	(10071101)	468380.00	3769941.69
112.12121	(12082501)					
112.12121	468405.00	3769941.69	239.21798	(09092721)	468430.00	3769941.69
112.12121	(10011018)					
112.12121	468330.00	3769966.69	310.95245	(09093003)	468355.00	3769966.69
112.12121	(08062701)					
112.12121	468380.00	3769966.69	250.30775	(09071824)	468405.00	3769966.69
112.12121	(12082501)					
112.12121	468430.00	3769966.69	202.73475	(10102919)	468330.00	3769991.69
112.12121	(12112919)					
112.12121	468355.00	3769991.69	253.47254	(09093003)	468380.00	3769991.69
112.12121	(11072702)					
112.12121	468330.00	3770016.69	257.62153	(09111019)	468355.00	3770016.69
112.12121	(12112919)					
112.12121	468380.00	3770016.69	212.61525	(09093003)	468330.00	3770041.69
112.12121	(08071524)					
112.12121	468355.00	3770041.69	216.55802	(09111019)	468380.00	3770041.69
112.12121	(09082321)					
112.12121	468330.00	3770066.69	208.35029	(08082823)	468355.00	3770066.69
112.12121	(08071524)					
112.12121	468380.00	3770066.69	184.94049	(09111019)	468330.00	3770091.69
112.12121	(08082823)					
112.12121	468355.00	3770091.69	176.93984	(08082823)	468380.00	3770091.69
112.12121	(09111019)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB22 ***
 INCLUDING SOURCE(S): FWYWB22 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

X-COORD (M) CONC	Y-COORD (M) (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
450.65043	468330.00 (10071722)	549.83335	(11102419)	468355.00	3769866.69
317.98301	468380.00 (10102318)	373.10942	(10071722)	468405.00	3769866.69
492.26828	468430.00 (12082501)	278.64549	(12071224)	468330.00	3769891.69
353.70004	468355.00 (12081421)	417.47197	(10011018)	468380.00	3769891.69
266.11840	468405.00 (10071722)	301.56943	(10110218)	468430.00	3769891.69
376.73576	468330.00 (12082501)	439.64594	(12082602)	468355.00	3769916.69
288.30799	468380.00 (10011018)	324.39433	(10102919)	468405.00	3769916.69
388.59573	468430.00 (09093003)	253.89077	(12081421)	468330.00	3769941.69
301.36178	468355.00 (11082421)	341.15647	(08062701)	468380.00	3769941.69
237.76754	468405.00 (09092721)	268.26111	(12082501)	468430.00	3769941.69
306.71955	468330.00 (09093003)	344.60633	(08112519)	468355.00	3769966.69
248.86362	468380.00 (09071824)	276.15971	(11072702)	468405.00	3769966.69
306.35257	468430.00 (09111019)	223.89283	(10071101)	468330.00	3769991.69
251.23848	468355.00 (09093003)	276.61300	(12112919)	468380.00	3769991.69
254.12004	468330.00 (09111019)	269.06232	(08082823)	468355.00	3770016.69
242.30538	468380.00 (08082823)	229.81985	(12112919)	468330.00	3770041.69
214.33943	468355.00 (09111019)	226.70273	(08071524)	468380.00	3770041.69
206.33399	468330.00 (08082823)	217.07595	(11040421)	468355.00	3770066.69
196.49532	468380.00 (11101505)	193.92235	(08071524)	468330.00	3770091.69
176.12192	468355.00 (08082823)	185.73052	(12080303)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB23 ***
 INCLUDING SOURCE(S): FWYWB23 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
544.83747	468330.00	3769866.69	683.88808	(10011018)	468355.00	3769866.69
369.02644	(11102419)					
588.22728	468380.00	3769866.69	442.21795	(10071722)	468405.00	3769866.69
411.97929	(10071722)					
299.85921	468430.00	3769866.69	314.56661	(10102318)	468330.00	3769891.69
184.29634	(12082602)					
273.83981	468355.00	3769891.69	487.55064	(12082501)	468380.00	3769891.69
266.48162	(10011018)					
273.83981	468405.00	3769891.69	348.76338	(11102419)	468430.00	3769891.69
273.83981	(10110218)					
273.83981	468330.00	3769916.69	504.37755	(09093003)	468355.00	3769916.69
273.83981	(12082602)					
273.83981	468380.00	3769916.69	372.76800	(10071101)	468405.00	3769916.69
273.83981	(10102919)					
273.83981	468430.00	3769916.69	285.88316	(10011018)	468330.00	3769941.69
273.83981	(09111019)					
273.83981	468355.00	3769941.69	381.29188	(09093003)	468380.00	3769941.69
273.83981	(08062701)					
273.83981	468405.00	3769941.69	298.67960	(11082421)	468430.00	3769941.69
273.83981	(12082501)					
273.83981	468330.00	3769966.69	374.01334	(08071524)	468355.00	3769966.69
273.83981	(08112519)					
273.83981	468380.00	3769966.69	302.95822	(09093003)	468405.00	3769966.69
273.83981	(11072702)					
273.83981	468430.00	3769966.69	246.65472	(09071824)	468330.00	3769991.69
273.83981	(08093020)					
273.83981	468355.00	3769991.69	300.54320	(09111019)	468380.00	3769991.69
273.83981	(08112519)					
273.83981	468330.00	3770016.69	285.41084	(12080303)	468355.00	3770016.69
273.83981	(08093020)					
273.83981	468380.00	3770016.69	250.38858	(09111019)	468330.00	3770041.69
273.83981	(11101505)					
273.83981	468355.00	3770041.69	238.27192	(08082823)	468380.00	3770041.69
273.83981	(08071524)					
273.83981	468330.00	3770066.69	229.21517	(11090519)	468355.00	3770066.69
273.83981	(11040421)					
273.83981	468380.00	3770066.69	204.13000	(08082823)	468330.00	3770091.69
273.83981	(11090519)					
273.83981	468355.00	3770091.69	194.58462	(11101505)	468380.00	3770091.69
273.83981	(12080303)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB24 ***
 INCLUDING SOURCE(S): FWYWB24 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
674.39534	468330.00	3769866.69	862.93316	(10071101)	468355.00	3769866.69
437.29675	(10011018)					
704.52725	468380.00	3769866.69	539.30731	(11102419)	468405.00	3769866.69
484.79808	(09061405)					
346.94859	468430.00	3769866.69	368.04770	(10071722)	468330.00	3769891.69
495.81210	(09093003)					
371.37839	468355.00	3769891.69	582.71944	(12082602)	468380.00	3769891.69
297.25682	(12082501)					
193.36885	468405.00	3769891.69	406.93168	(10011018)	468430.00	3769891.69
209.92663	(12081421)					
227.26782	468330.00	3769916.69	590.26327	(09111019)	468355.00	3769916.69
209.92663	(09093003)					
227.26782	468380.00	3769916.69	428.82098	(08062701)	468405.00	3769916.69
209.92663	(10071101)					
209.92663	468430.00	3769916.69	321.00853	(10102919)	468330.00	3769941.69
209.92663	(08093020)					
209.92663	468355.00	3769941.69	435.63196	(09111019)	468380.00	3769941.69
209.92663	(09093003)					
209.92663	468405.00	3769941.69	335.75193	(11072702)	468430.00	3769941.69
209.92663	(11082421)					
209.92663	468330.00	3769966.69	405.30373	(08070122)	468355.00	3769966.69
209.92663	(11070222)					
209.92663	468380.00	3769966.69	338.38634	(09111019)	468405.00	3769966.69
209.92663	(09093003)					
209.92663	468430.00	3769966.69	272.31675	(11072702)	468330.00	3769991.69
209.92663	(11101505)					
209.92663	468355.00	3769991.69	322.36916	(08093020)	468380.00	3769991.69
209.92663	(09111019)					
209.92663	468330.00	3770016.69	308.32479	(11090519)	468355.00	3770016.69
209.92663	(11040421)					
209.92663	468380.00	3770016.69	262.91567	(08093020)	468330.00	3770041.69
209.92663	(12081621)					
209.92663	468355.00	3770041.69	252.43560	(11101505)	468380.00	3770041.69
209.92663	(08082823)					
209.92663	468330.00	3770066.69	237.72757	(09030220)	468355.00	3770066.69
209.92663	(11090519)					
209.92663	468380.00	3770066.69	213.04927	(11040421)	468330.00	3770091.69
209.92663	(09051801)					
209.92663	468355.00	3770091.69	205.08565	(11090519)	468380.00	3770091.69
209.92663	(11101505)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB25 ***
 INCLUDING SOURCE(S): FWYWB25 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
847.79984	468330.00	3769866.69	1110.79951	(11061607)	468355.00	3769866.69
	(10071101)					
530.28746	468380.00	3769866.69	658.59981	(10011018)	468405.00	3769866.69
	(11102419)					
832.25825	468430.00	3769866.69	433.59159	(10110218)	468330.00	3769891.69
	(12081822)					
574.95461	468355.00	3769891.69	690.11454	(09093003)	468380.00	3769891.69
	(12082602)					
402.71952	468405.00	3769891.69	478.92006	(12082501)	468430.00	3769891.69
	(10011018)					
577.76479	468330.00	3769916.69	649.48550	(08070122)	468355.00	3769916.69
	(09111019)					
425.77881	468380.00	3769916.69	489.04160	(09093003)	468405.00	3769916.69
	(08062701)					
529.18288	468430.00	3769916.69	368.85851	(10071101)	468330.00	3769941.69
	(11090519)					
431.93465	468355.00	3769941.69	475.49124	(08093020)	468380.00	3769941.69
	(09111019)					
333.57119	468405.00	3769941.69	373.58037	(12120207)	468430.00	3769941.69
	(11072702)					
398.34538	468330.00	3769966.69	441.72461	(11090519)	468355.00	3769966.69
	(08070122)					
336.65090	468380.00	3769966.69	364.96585	(11070222)	468405.00	3769966.69
	(09111019)					
370.25873	468430.00	3769966.69	298.33016	(08070622)	468330.00	3769991.69
	(09030220)					
318.91235	468355.00	3769991.69	344.55090	(11101505)	468380.00	3769991.69
	(08093020)					
303.88326	468330.00	3770016.69	315.03964	(09051801)	468355.00	3770016.69
	(11090519)					
280.16920	468380.00	3770016.69	278.54896	(11040421)	468330.00	3770041.69
	(12071303)					
249.42849	468355.00	3770041.69	264.90400	(12081621)	468380.00	3770041.69
	(11101505)					
234.97821	468330.00	3770066.69	248.30579	(12071303)	468355.00	3770066.69
	(09030220)					
219.85567	468380.00	3770066.69	225.30876	(11090519)	468330.00	3770091.69
	(12071303)					
203.29679	468355.00	3770091.69	207.84308	(09051801)	468380.00	3770091.69
	(11090519)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB26 ***
 INCLUDING SOURCE(S): FWYWB26 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

X-COORD (M) CONC (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
468330.00	3769866.69	1364.42146	(08093020)	468355.00	3769866.69
1072.53140 (12120207)					
468380.00	3769866.69	835.03845	(12091421)	468405.00	3769866.69
649.55421 (10102919)					
468430.00	3769866.69	527.67759	(10011018)	468330.00	3769891.69
972.84803 (11090519)					
468355.00	3769891.69	818.77624	(11070222)	468380.00	3769891.69
681.41782 (12120207)					
468405.00	3769891.69	567.15384	(12082602)	468430.00	3769891.69
477.02479 (12082501)					
468330.00	3769916.69	721.54525	(09030220)	468355.00	3769916.69
638.03071 (08070122)					
468380.00	3769916.69	571.99655	(09111019)	468405.00	3769916.69
486.28077 (12120207)					
468430.00	3769916.69	423.66133	(08062701)	468330.00	3769941.69
573.40512 (12071303)					
468355.00	3769941.69	522.51223	(11090519)	468380.00	3769941.69
472.10322 (08093020)					
468405.00	3769941.69	429.49396	(09111019)	468430.00	3769941.69
371.73678 (08070622)					
468330.00	3769966.69	468.91918	(12071303)	468355.00	3769966.69
434.90812 (11090519)					
468380.00	3769966.69	394.74504	(08070122)	468405.00	3769966.69
362.28995 (11070222)					
468430.00	3769966.69	335.62828	(09111019)	468330.00	3769991.69
385.63002 (12071303)					
468355.00	3769991.69	365.28132	(09030220)	468380.00	3769991.69
341.94957 (11101505)					
468330.00	3770016.69	321.77517	(09092720)	468355.00	3770016.69
310.92721 (09051801)					
468380.00	3770016.69	300.64457	(11090519)	468330.00	3770041.69
278.16925 (11070602)					
468355.00	3770041.69	277.25593	(12071303)	468380.00	3770041.69
262.02515 (12081621)					
468330.00	3770066.69	243.68588	(11070602)	468355.00	3770066.69
245.90127 (12071303)					
468380.00	3770066.69	232.79249	(09030220)	468330.00	3770091.69
214.90097 (11070602)					
468355.00	3770091.69	217.74544	(12071303)	468380.00	3770091.69
206.58349 (09051801)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB27 ***
 INCLUDING SOURCE(S): FWYWB27 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
1320.05567	468330.00	3769866.69	1542.42972	(12071303)	468355.00	3769866.69
819.66790	(08070122)					
1022.28414	468380.00	3769866.69	1049.65527	(12112919)	468405.00	3769866.69
564.83168	(12082602)					
705.67546	468430.00	3769866.69	644.25492	(10102919)	468330.00	3769891.69
392.17777	(11070602)					
383.37648	468355.00	3769891.69	953.97977	(11090519)	468380.00	3769891.69
361.72070	(11070222)					
280.69993	468405.00	3769891.69	669.72565	(12120207)	468430.00	3769891.69
274.28023	(08062701)					
241.17222	468330.00	3769916.69	737.10104	(11121408)	468355.00	3769916.69
215.34793	(09030220)					
212.83037	468380.00	3769916.69	630.48441	(08070122)	468405.00	3769916.69
211.81342	(09111019)					
209.75823	468430.00	3769916.69	482.31464	(12120207)	468330.00	3769941.69
208.69993	(10111218)					
207.55776	468355.00	3769941.69	564.00236	(12071303)	468380.00	3769941.69
206.42972	(11090519)					
205.28414	468405.00	3769941.69	467.95339	(08093020)	468430.00	3769941.69
204.17222	(09111019)					
203.05567	468330.00	3769966.69	462.70048	(10111218)	468355.00	3769966.69
201.94414	(12071303)					
200.83261	468380.00	3769966.69	430.07041	(11090519)	468405.00	3769966.69
199.72108	(11040421)					
198.60955	468430.00	3769966.69	359.09960	(11070222)	468330.00	3769991.69
197.49802	(10111218)					
196.38649	468355.00	3769991.69	379.86451	(12071303)	468380.00	3769991.69
195.27496	(09030220)					
194.16343	468330.00	3770016.69	326.06440	(10111218)	468355.00	3770016.69
193.05190	(09092720)					
191.94037	468380.00	3770016.69	307.53158	(12071303)	468330.00	3770041.69
190.82884	(10111218)					
189.71731	468355.00	3770041.69	274.91583	(11070602)	468380.00	3770041.69
188.60578	(12071303)					
187.49425	468330.00	3770066.69	244.43641	(10111218)	468355.00	3770066.69
186.38272	(11070602)					
185.27119	468380.00	3770066.69	243.62101	(12071303)	468330.00	3770091.69
184.15966	(10111218)					
183.04813	468355.00	3770091.69	212.83037	(11070602)	468380.00	3770091.69
181.93660	(12071303)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB28 ***
 INCLUDING SOURCE(S): FWYWB28 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
1486.76848	468330.00	3769866.69	1483.94012	(08110124)	468355.00	3769866.69
1018.16817	(12071303)					
1004.80607	468380.00	3769866.69	1275.87564	(08070122)	468405.00	3769866.69
928.29657	(12112919)					
662.95405	468430.00	3769866.69	803.08932	(12082602)	468330.00	3769891.69
210.79071	(09083121)					
271.15702	468355.00	3769891.69	991.38030	(11070602)	468380.00	3769891.69
241.93648	(11090519)					
213.15628	468405.00	3769891.69	782.96936	(11070222)	468430.00	3769891.69
271.15702	(12112919)					
241.93648	468330.00	3769916.69	730.45955	(11082702)	468355.00	3769916.69
213.15628	(11121408)					
271.15702	468380.00	3769916.69	691.30167	(09030220)	468405.00	3769916.69
241.93648	(08070122)					
213.15628	468430.00	3769916.69	554.46486	(09111019)	468330.00	3769941.69
271.15702	(11082702)					
241.93648	468355.00	3769941.69	559.00064	(10111218)	468380.00	3769941.69
213.15628	(12071303)					
271.15702	468405.00	3769941.69	512.01646	(11090519)	468430.00	3769941.69
241.93648	(08093020)					
213.15628	468330.00	3769966.69	456.73869	(08051721)	468355.00	3769966.69
271.15702	(10111218)					
241.93648	468380.00	3769966.69	454.69444	(12071303)	468405.00	3769966.69
213.15628	(11090519)					
271.15702	468430.00	3769966.69	387.91868	(11040421)	468330.00	3769991.69
241.93648	(08051721)					
213.15628	468355.00	3769991.69	376.49475	(10111218)	468380.00	3769991.69
271.15702	(12071303)					
241.93648	468330.00	3770016.69	322.16540	(08051721)	468355.00	3770016.69
213.15628	(10111218)					
271.15702	468380.00	3770016.69	311.60993	(09092720)	468330.00	3770041.69
241.93648	(08051721)					
213.15628	468355.00	3770041.69	277.05627	(10111218)	468380.00	3770041.69
271.15702	(11070602)					
241.93648	468330.00	3770066.69	241.75671	(08051721)	468355.00	3770066.69
213.15628	(10111218)					
271.15702	468380.00	3770066.69	238.46947	(11070602)	468330.00	3770091.69
241.93648	(08051721)					
213.15628	468355.00	3770091.69	213.34421	(10111218)	468380.00	3770091.69
271.15702	(11070602)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB29 ***
 INCLUDING SOURCE(S): FWYWB29 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
1433.09016	468330.00	3769866.69	1228.86900	(11082701)	468355.00	3769866.69
1239.16566	(08110124)					
884.05353	468380.00	3769866.69	1433.36711	(12071303)	468405.00	3769866.69
779.92915	(08070122)					
717.93776	468430.00	3769866.69	1006.04459	(12112919)	468330.00	3769891.69
683.58829	(09092304)					
450.79646	468355.00	3769891.69	984.09002	(09083121)	468380.00	3769891.69
372.02117	(11070602)					
272.94809	468405.00	3769891.69	910.47245	(11090519)	468430.00	3769891.69
239.18761	(08093020)					
212.92114	468330.00	3769916.69	675.36031	(12042021)	468355.00	3769916.69
211.27997	(11082702)					
	468380.00	3769916.69	709.01673	(11121408)	468405.00	3769916.69
	(09030220)					
	468430.00	3769916.69	612.63323	(11040421)	468330.00	3769941.69
	(08110124)					
	468355.00	3769941.69	558.89851	(11082702)	468380.00	3769941.69
	(10111218)					
	468405.00	3769941.69	551.30961	(12071303)	468430.00	3769941.69
	(11090519)					
	468330.00	3769966.69	444.92029	(08110124)	468355.00	3769966.69
	(08051721)					
	468380.00	3769966.69	450.35290	(10111218)	468405.00	3769966.69
	(12071303)					
	468430.00	3769966.69	420.00223	(12081621)	468330.00	3769991.69
	(08110124)					
	468355.00	3769991.69	374.50306	(08051721)	468380.00	3769991.69
	(10111218)					
	468330.00	3770016.69	316.57334	(09083121)	468355.00	3770016.69
	(08051721)					
	468380.00	3770016.69	317.22743	(10111218)	468330.00	3770041.69
	(09083121)					
	468355.00	3770041.69	274.15876	(08051721)	468380.00	3770041.69
	(10111218)					
	468330.00	3770066.69	239.07628	(09082124)	468355.00	3770066.69
	(08051721)					
	468380.00	3770066.69	239.43865	(10111218)	468330.00	3770091.69
	(09082124)					
	468355.00	3770091.69	211.05841	(08051721)	468380.00	3770091.69
	(10111218)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB30 ***
 INCLUDING SOURCE(S): FWYWB30 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
1199.08071	468330.00	3769866.69	967.25746	(11062406)	468355.00	3769866.69
1383.20192	468380.00	3769866.69	1386.36580	(09083121)	468405.00	3769866.69
750.55984	468430.00	3769866.69	1205.03160	(08070122)	468330.00	3769891.69
956.90835	468355.00	3769891.69	867.11117	(09092304)	468380.00	3769891.69
895.55094	468405.00	3769891.69	948.33612	(11070602)	468430.00	3769891.69
662.77300	468330.00	3769916.69	608.37328	(11082701)	468355.00	3769916.69
698.34414	468380.00	3769916.69	707.59440	(11082702)	468405.00	3769916.69
484.00401	468430.00	3769916.69	672.65450	(09030220)	468330.00	3769941.69
551.47836	468355.00	3769941.69	526.80667	(08110124)	468380.00	3769941.69
545.01190	468405.00	3769941.69	549.37164	(10111218)	468430.00	3769941.69
438.75784	468330.00	3769966.69	408.85380	(09092304)	468355.00	3769966.69
445.83246	468380.00	3769966.69	445.71516	(08051721)	468405.00	3769966.69
347.96309	468430.00	3769966.69	445.53649	(12071303)	468330.00	3769991.69
370.63095	468355.00	3769991.69	366.94378	(08110124)	468380.00	3769991.69
312.79396	468330.00	3770016.69	295.98152	(12042021)	468355.00	3770016.69
258.52738	468380.00	3770016.69	314.34478	(08051721)	468330.00	3770041.69
271.04522	468355.00	3770041.69	269.82830	(09083121)	468380.00	3770041.69
236.85583	468330.00	3770066.69	231.72710	(08110124)	468355.00	3770066.69
207.42984	468380.00	3770066.69	236.66609	(08051721)	468330.00	3770091.69
208.96162	468355.00	3770091.69	211.03142	(09082124)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB31 ***
 INCLUDING SOURCE(S): FWYWB31 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
942.57052	468330.00	3769866.69	791.21651	(11062406)	468355.00	3769866.69
1345.08158	468380.00	3769866.69	1170.82055	(11082701)	468405.00	3769866.69
629.21661	468430.00	3769866.69	1335.34391	(12071303)	468330.00	3769891.69
850.29307	468355.00	3769891.69	734.06133	(09071804)	468380.00	3769891.69
924.65547	468405.00	3769891.69	930.96533	(09083121)	468430.00	3769891.69
597.78515	468330.00	3769916.69	520.94916	(09071804)	468355.00	3769916.69
693.60949	468380.00	3769916.69	650.81271	(12042021)	468405.00	3769916.69
433.92843	468430.00	3769916.69	684.80435	(10111218)	468330.00	3769941.69
519.94810	468355.00	3769941.69	477.03464	(08021120)	468380.00	3769941.69
540.21774	468405.00	3769941.69	541.88304	(11082702)	468430.00	3769941.69
403.46796	468330.00	3769966.69	376.85781	(11082701)	468355.00	3769966.69
439.20562	468380.00	3769966.69	432.85175	(08110124)	468405.00	3769966.69
316.30587	468430.00	3769966.69	439.31924	(10111218)	468330.00	3769991.69
362.06779	468355.00	3769991.69	343.68975	(12042021)	468380.00	3769991.69
292.17639	468330.00	3770016.69	278.20944	(09092304)	468355.00	3770016.69
246.81598	468380.00	3770016.69	309.06769	(09083121)	468330.00	3770041.69
266.80000	468355.00	3770041.69	256.51649	(08110124)	468380.00	3770041.69
229.81832	468330.00	3770066.69	220.97618	(12042021)	468355.00	3770066.69
196.36495	468380.00	3770066.69	234.72110	(09082124)	468330.00	3770091.69
209.16668	468355.00	3770091.69	205.69631	(08110124)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB32 ***
 INCLUDING SOURCE(S): FWYWB32 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
791.18733	468330.00	3769866.69	606.04065	(10022702)	468355.00	3769866.69
1140.42083	468380.00	3769866.69	927.63792	(10082701)	468405.00	3769866.69
525.07036	468430.00	3769866.69	1303.58978	(09083121)	468330.00	3769891.69
716.65350	468355.00	3769891.69	618.19967	(08102121)	468380.00	3769891.69
905.63702	468405.00	3769891.69	833.18241	(09092304)	468430.00	3769891.69
514.43694	468330.00	3769916.69	451.94353	(08102121)	468355.00	3769916.69
637.78613	468380.00	3769916.69	586.83653	(11082701)	468405.00	3769916.69
388.59568	468430.00	3769916.69	679.06640	(11082702)	468330.00	3769941.69
469.89102	468355.00	3769941.69	430.53037	(11082701)	468380.00	3769941.69
531.95164	468405.00	3769941.69	512.55965	(08110124)	468430.00	3769941.69
371.65566	468330.00	3769966.69	333.81528	(09071804)	468355.00	3769966.69
426.63111	468380.00	3769966.69	397.99390	(09092304)	468405.00	3769966.69
297.14136	468430.00	3769966.69	432.45684	(08051721)	468330.00	3769991.69
339.35397	468355.00	3769991.69	313.18881	(08021120)	468380.00	3769991.69
275.88456	468330.00	3770016.69	262.79815	(11082701)	468355.00	3770016.69
227.46087	468380.00	3770016.69	288.28551	(12042021)	468330.00	3770041.69
254.41363	468355.00	3770041.69	244.39066	(12042021)	468380.00	3770041.69
218.97159	468330.00	3770066.69	204.81976	(08021120)	468355.00	3770066.69
187.41941	468380.00	3770066.69	227.80441	(08110124)	468330.00	3770091.69
203.81547	468355.00	3770091.69	194.44607	(12042021)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB33 ***
 INCLUDING SOURCE(S): FWYWB33 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
597.57415	468330.00	3769866.69	489.22010	(09092421)	468355.00	3769866.69
912.69284	(10022702)					
435.98506	468380.00	3769866.69	785.73734	(11062406)	468405.00	3769866.69
607.35920	(10082701)					
815.07004	468430.00	3769866.69	1107.77008	(11082701)	468330.00	3769891.69
445.65573	(10110807)					
392.30994	468355.00	3769891.69	519.35231	(12110524)	468380.00	3769891.69
270.36729	(10082701)					
219.23883	468405.00	3769891.69	698.72521	(09071804)	468430.00	3769891.69
242.39132	(09092304)					
202.86512	468330.00	3769916.69	393.20627	(12110524)	468355.00	3769916.69
173.94905	(08102121)					
192.33298	468380.00	3769916.69	507.09715	(09071804)	468405.00	3769916.69
	(11082701)					
	468430.00	3769916.69	624.29910	(12042021)	468330.00	3769941.69
	(08102121)					
	468355.00	3769941.69	382.46465	(10082701)	468380.00	3769941.69
	(11082701)					
	468405.00	3769941.69	462.41361	(08021120)	468430.00	3769941.69
	(08110124)					
	468330.00	3769966.69	306.29556	(10082701)	468355.00	3769966.69
	(09071804)					
	468380.00	3769966.69	366.16600	(11082701)	468405.00	3769966.69
	(09092304)					
	468430.00	3769966.69	420.26601	(08110124)	468330.00	3769991.69
	(09071804)					
	468355.00	3769991.69	294.80203	(11082701)	468380.00	3769991.69
	(08021120)					
	468330.00	3770016.69	239.15974	(08101103)	468355.00	3770016.69
	(11082701)					
	468380.00	3770016.69	273.43835	(09092304)	468330.00	3770041.69
	(11082701)					
	468355.00	3770041.69	225.77449	(08021120)	468380.00	3770041.69
	(12042021)					
	468330.00	3770066.69	196.81329	(11082701)	468355.00	3770066.69
	(08021120)					
	468380.00	3770066.69	216.83578	(12042021)	468330.00	3770091.69
	(11102305)					
	468355.00	3770091.69	186.00255	(09092304)	468380.00	3770091.69
	(12042021)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB34 ***
 INCLUDING SOURCE(S): FWYWB34 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
486.92827	468330.00	3769866.69	405.66592	(12091601)	468355.00	3769866.69
752.86696	(09092421)					
375.92089	468380.00	3769866.69	589.81290	(10022702)	468405.00	3769866.69
513.65777	(11062406)					
690.75078	468430.00	3769866.69	896.74297	(10082701)	468330.00	3769891.69
389.15522	(10022702)					
499.68655	468355.00	3769891.69	431.68842	(10110807)	468380.00	3769891.69
184.63353	(12110524)					
170.59481	468405.00	3769891.69	601.93003	(10082701)	468430.00	3769891.69
194.96752	(11082701)					
112.11212	468330.00	3769916.69	332.58550	(10110807)	468355.00	3769916.69
112.11212	(12110524)					
112.11212	468380.00	3769916.69	439.02457	(08102121)	468405.00	3769916.69
112.11212	(09071804)					
112.11212	468430.00	3769916.69	564.07086	(11082701)	468330.00	3769941.69
112.11212	(12110524)					
112.11212	468355.00	3769941.69	341.39607	(08102121)	468380.00	3769941.69
112.11212	(09071804)					
112.11212	468405.00	3769941.69	422.62168	(11082701)	468430.00	3769941.69
112.11212	(09092304)					
112.11212	468330.00	3769966.69	275.31916	(08102121)	468355.00	3769966.69
112.11212	(10082701)					
112.11212	468380.00	3769966.69	323.76778	(09071804)	468405.00	3769966.69
112.11212	(11082701)					
112.11212	468430.00	3769966.69	386.82691	(09092304)	468330.00	3769991.69
112.11212	(10082701)					
112.11212	468355.00	3769991.69	267.70893	(09071804)	468380.00	3769991.69
112.11212	(11082701)					
112.11212	468330.00	3770016.69	223.03186	(09071804)	468355.00	3770016.69
112.11212	(08101103)					
112.11212	468380.00	3770016.69	256.80055	(11082701)	468330.00	3770041.69
112.11212	(09071804)					
112.11212	468355.00	3770041.69	217.82482	(11082701)	468380.00	3770041.69
112.11212	(08021120)					
112.11212	468330.00	3770066.69	183.75428	(08101103)	468355.00	3770066.69
112.11212	(11082701)					
112.11212	468380.00	3770066.69	201.49037	(09092304)	468330.00	3770091.69
112.11212	(11082701)					
112.11212	468355.00	3770091.69	173.02718	(08021120)	468380.00	3770091.69
112.11212	(09092304)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB35 ***
 INCLUDING SOURCE(S): FWYWB35 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
403.71365	468330.00	3769866.69	350.67416	(08112119)	468355.00	3769866.69
586.34521	(12091601)					
322.50569	468380.00	3769866.69	486.30922	(09092421)	468405.00	3769866.69
429.58170	(10022702)					
598.88513	468430.00	3769866.69	730.85249	(11062406)	468330.00	3769891.69
330.58901	(09092421)					
435.65644	468355.00	3769891.69	375.18822	(10022702)	468380.00	3769891.69
269.53174	(10110807)					
187.56091	468405.00	3769891.69	511.12662	(12110524)	468430.00	3769891.69
217.20729	(10082701)					
183.31915	468330.00	3769916.69	297.81497	(10022702)	468355.00	3769916.69
157.50731	(10110807)					
172.58455	468380.00	3769916.69	386.90671	(12110524)	468405.00	3769916.69
	(08102121)					
	468430.00	3769916.69	495.99444	(09071804)	468330.00	3769941.69
	(12110524)					
	468355.00	3769941.69	306.08867	(12110524)	468380.00	3769941.69
	(08102121)					
	468405.00	3769941.69	376.42350	(09071804)	468430.00	3769941.69
	(11082701)					
	468330.00	3769966.69	249.96222	(12110524)	468355.00	3769966.69
	(08102121)					
	468380.00	3769966.69	301.11602	(10082701)	468405.00	3769966.69
	(08101103)					
	468430.00	3769966.69	358.11682	(11082701)	468330.00	3769991.69
	(08102121)					
	468355.00	3769991.69	248.39849	(10082701)	468380.00	3769991.69
	(09071804)					
	468330.00	3770016.69	208.52331	(10082701)	468355.00	3770016.69
	(09071804)					
	468380.00	3770016.69	237.21680	(08101103)	468330.00	3770041.69
	(09071804)					
	468355.00	3770041.69	197.68238	(09071804)	468380.00	3770041.69
	(11082701)					
	468330.00	3770066.69	172.74035	(09071804)	468355.00	3770066.69
	(08101103)					
	468380.00	3770066.69	194.07376	(11082701)	468330.00	3770091.69
	(08101103)					
	468355.00	3770091.69	170.16566	(11082701)	468380.00	3770091.69
	(08021120)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB36 ***
 INCLUDING SOURCE(S): FWYWB36 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
347.71649	468330.00	3769866.69	297.87457	(12121019)	468355.00	3769866.69
481.43004	(08093021)					
277.87937	468380.00	3769866.69	398.87607	(12101522)	468405.00	3769866.69
502.24269	(09092421)					
294.14792	468430.00	3769866.69	574.26098	(10022702)	468330.00	3769891.69
380.87658	(09111522)					
242.30219	468355.00	3769891.69	320.62741	(09092421)	468380.00	3769891.69
176.76333	(10022702)					
195.28522	468405.00	3769891.69	423.20862	(10110807)	468430.00	3769891.69
171.09495	(12110524)					
150.22914	468330.00	3769916.69	262.17442	(10022702)	468355.00	3769916.69
168.73237	(10022702)					
150.22914	468380.00	3769916.69	327.49105	(12110524)	468405.00	3769916.69
150.22914	(12110524)					
150.22914	468430.00	3769916.69	431.47632	(10082701)	468330.00	3769941.69
150.22914	(10110807)					
150.22914	468355.00	3769941.69	268.90259	(12110524)	468380.00	3769941.69
150.22914	(12110524)					
150.22914	468405.00	3769941.69	334.49279	(08102121)	468430.00	3769941.69
150.22914	(09071804)					
150.22914	468330.00	3769966.69	225.41727	(12110524)	468355.00	3769966.69
150.22914	(12110524)					
150.22914	468380.00	3769966.69	271.03117	(08102121)	468405.00	3769966.69
150.22914	(10082701)					
150.22914	468430.00	3769966.69	319.25138	(08101103)	468330.00	3769991.69
150.22914	(12110524)					
150.22914	468355.00	3769991.69	225.51122	(08102121)	468380.00	3769991.69
150.22914	(10082701)					
150.22914	468330.00	3770016.69	191.24466	(08102121)	468355.00	3770016.69
150.22914	(10082701)					
150.22914	468380.00	3770016.69	220.66075	(09071804)	468330.00	3770041.69
150.22914	(10082701)					
150.22914	468355.00	3770041.69	186.53167	(09071804)	468380.00	3770041.69
150.22914	(09071804)					
150.22914	468330.00	3770066.69	161.37773	(10082701)	468355.00	3770066.69
150.22914	(09071804)					
150.22914	468380.00	3770066.69	181.75711	(08101103)	468330.00	3770091.69
150.22914	(09071804)					
150.22914	468355.00	3770091.69	156.63761	(08101103)	468380.00	3770091.69
150.22914	(11082701)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB37 ***
 INCLUDING SOURCE(S): FWYWB37 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
296.83269	468330.00	3769866.69	259.76003	(12092322)	468355.00	3769866.69
395.64440	(08112119)					
248.67283	468380.00	3769866.69	345.68885	(08093021)	468405.00	3769866.69
319.00671	(09111522)					
416.78185	468430.00	3769866.69	476.55240	(09092421)	468330.00	3769891.69
261.67801	(08112119)					
189.99431	468355.00	3769891.69	275.95950	(09111522)	468380.00	3769891.69
163.98847	(09092421)					
155.90607	468405.00	3769891.69	368.94976	(10022702)	468430.00	3769891.69
	(10110807)					
	468330.00	3769916.69	232.65377	(09092421)	468355.00	3769916.69
	(10022702)					
	468380.00	3769916.69	291.63320	(10110807)	468405.00	3769916.69
	(12110524)					
	468430.00	3769916.69	375.25060	(12110524)	468330.00	3769941.69
	(10022702)					
	468355.00	3769941.69	240.73371	(10110807)	468380.00	3769941.69
	(12110524)					
	468405.00	3769941.69	297.71054	(12110524)	468430.00	3769941.69
	(10082701)					
	468330.00	3769966.69	201.35483	(10110807)	468355.00	3769966.69
	(12110524)					
	468380.00	3769966.69	243.83328	(12110524)	468405.00	3769966.69
	(08102121)					
	468430.00	3769966.69	292.84538	(10082701)	468330.00	3769991.69
	(12110524)					
	468355.00	3769991.69	204.60048	(12110524)	468380.00	3769991.69
	(08102121)					
	468330.00	3770016.69	174.58283	(12110524)	468355.00	3770016.69
	(08102121)					
	468380.00	3770016.69	205.61600	(10082701)	468330.00	3770041.69
	(08102121)					
	468355.00	3770041.69	175.97587	(10082701)	468380.00	3770041.69
	(09071804)					
	468330.00	3770066.69	152.55741	(10082701)	468355.00	3770066.69
	(12031101)					
	468380.00	3770066.69	169.61628	(09071804)	468330.00	3770091.69
	(10082701)					
	468355.00	3770091.69	149.32925	(09071804)	468380.00	3770091.69
	(08101103)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB38 ***
 INCLUDING SOURCE(S): FWYWB38 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
258.92586	468330.00	3769866.69	228.90909	(12093021)	468355.00	3769866.69
342.99185	(10092522)					
222.27007	468380.00	3769866.69	297.01084	(08112119)	468405.00	3769866.69
274.32670	(08093021)					
364.87088	468430.00	3769866.69	394.23059	(09040422)	468330.00	3769891.69
199.44220	(08112119)					
175.04925	468355.00	3769891.69	246.30285	(08112119)	468380.00	3769891.69
151.95050	(09040422)					
133.34054	468405.00	3769891.69	316.93741	(09092421)	468430.00	3769891.69
148.23073	(10022702)					
112.90507	468330.00	3769916.69	205.74391	(09111522)	468355.00	3769916.69
112.90507	(09092421)					
289.68274	468380.00	3769916.69	260.52922	(10022702)	468405.00	3769916.69
196.43928	(10110807)					
238.56524	468430.00	3769916.69	326.37464	(12110524)	468330.00	3769941.69
293.22348	(08121207)					
169.68792	468355.00	3769941.69	217.91448	(10022702)	468380.00	3769941.69
202.10708	(10110807)					
173.09086	468405.00	3769941.69	267.22643	(12110524)	468430.00	3769941.69
150.34180	(12110524)					
175.04925	468330.00	3769966.69	184.39167	(10110807)	468355.00	3769966.69
151.95050	(10110807)					
133.34054	468380.00	3769966.69	223.85982	(12110524)	468405.00	3769966.69
148.23073	(12110524)					
112.90507	468430.00	3769966.69	265.02298	(11101005)	468330.00	3769991.69
112.90507	(09051605)					
202.10708	468355.00	3769991.69	191.02368	(12110524)	468380.00	3769991.69
173.09086	(09071001)					
150.34180	468330.00	3770016.69	165.08957	(12110524)	468355.00	3770016.69
175.04925	(09071001)					
151.95050	468380.00	3770016.69	188.53166	(08102121)	468330.00	3770041.69
133.34054	(09071001)					
148.23073	468355.00	3770041.69	162.95745	(08102121)	468380.00	3770041.69
112.90507	(10082701)					
112.90507	468330.00	3770066.69	142.77256	(08102121)	468355.00	3770066.69
112.90507	(10082701)					
133.34054	468380.00	3770066.69	158.94330	(12031101)	468330.00	3770091.69
148.23073	(10082701)					
112.90507	468355.00	3770091.69	140.51400	(10082701)	468380.00	3770091.69
112.90507	(09071804)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB39 ***
 INCLUDING SOURCE(S): FWYWB39 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
227.55259	468330.00	3769866.69	204.16396	(12093021)	468355.00	3769866.69
296.76850	468380.00	3769866.69	258.05780	(10092522)	468405.00	3769866.69
196.88228	468430.00	3769866.69	339.24459	(08093021)	468330.00	3769891.69
243.53924	468355.00	3769891.69	221.26666	(08112119)	468380.00	3769891.69
313.93037	468405.00	3769891.69	273.91613	(09040422)	468430.00	3769891.69
205.56971	468330.00	3769916.69	186.24789	(12091601)	468355.00	3769916.69
258.96836	468380.00	3769916.69	230.63103	(09092421)	468405.00	3769916.69
178.41250	468430.00	3769916.69	287.22874	(10110807)	468330.00	3769941.69
215.91074	468355.00	3769941.69	195.93436	(10022702)	468380.00	3769941.69
265.75761	468405.00	3769941.69	236.06401	(10110807)	468430.00	3769941.69
183.74563	468330.00	3769966.69	170.37735	(10022702)	468355.00	3769966.69
222.53307	468380.00	3769966.69	197.11800	(10110807)	468405.00	3769966.69
159.52908	468430.00	3769966.69	237.92218	(09071001)	468330.00	3769991.69
189.85846	468355.00	3769991.69	168.75810	(12110524)	468380.00	3769991.69
164.28844	468330.00	3770016.69	148.65200	(12110524)	468355.00	3770016.69
143.72755	468380.00	3770016.69	171.79834	(09071001)	468330.00	3770041.69
161.82891	468355.00	3770041.69	149.32913	(09071001)	468380.00	3770041.69
141.88754	468330.00	3770066.69	131.51410	(09122323)	468355.00	3770066.69
125.81054	468380.00	3770066.69	151.21500	(10082701)	468330.00	3770091.69
139.22553	468355.00	3770091.69	132.89840	(10082701)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB40 ***
 INCLUDING SOURCE(S): FWYWB40 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
203.66982	468330.00	3769866.69	183.57476	(09102322)	468355.00	3769866.69
257.31192	468380.00	3769866.69	227.43729	(12092322)	468405.00	3769866.69
177.44219	468430.00	3769866.69	296.17961	(08112119)	468330.00	3769891.69
220.32718	468355.00	3769891.69	196.88805	(08112119)	468380.00	3769891.69
273.11618	468405.00	3769891.69	241.54356	(12101522)	468430.00	3769891.69
185.69046	468330.00	3769916.69	172.29236	(08112119)	468355.00	3769916.69
229.32517	468380.00	3769916.69	205.28930	(09040422)	468405.00	3769916.69
161.60913	468430.00	3769916.69	257.38598	(10022702)	468330.00	3769941.69
195.54478	468355.00	3769941.69	177.99955	(09092421)	468380.00	3769941.69
233.65436	468405.00	3769941.69	213.90824	(10022702)	468430.00	3769941.69
169.67312	468330.00	3769966.69	154.63842	(08121207)	468355.00	3769966.69
195.36132	468380.00	3769966.69	182.94635	(10110807)	468405.00	3769966.69
147.31428	468430.00	3769966.69	221.29221	(12110524)	468330.00	3769991.69
168.92781	468355.00	3769991.69	158.73493	(10110807)	468380.00	3769991.69
148.88090	468330.00	3770016.69	138.37281	(10110807)	468355.00	3770016.69
132.17501	468380.00	3770016.69	163.50047	(12110524)	468330.00	3770041.69
148.94558	468355.00	3770041.69	143.08123	(12110524)	468380.00	3770041.69
131.07955	468330.00	3770066.69	126.64930	(12110524)	468355.00	3770066.69
116.66195	468380.00	3770066.69	141.03393	(08102121)	468330.00	3770091.69
132.42076	468355.00	3770091.69	125.19612	(08102121)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB41 ***
 INCLUDING SOURCE(S): FWYWB41 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
182.82783	468330.00	3769866.69	166.82087	(09102322)	468355.00	3769866.69
227.28846	468380.00	3769866.69	203.28476	(12093021)	468405.00	3769866.69
161.00291	468430.00	3769866.69	256.83761	(12121019)	468330.00	3769891.69
197.08662	468355.00	3769891.69	177.10667	(12121019)	468380.00	3769891.69
240.38113	468405.00	3769891.69	219.47974	(08112119)	468430.00	3769891.69
171.47848	468330.00	3769916.69	157.80699	(08112119)	468355.00	3769916.69
204.95476	468380.00	3769916.69	185.06273	(09111522)	468405.00	3769916.69
148.30278	468430.00	3769916.69	227.94216	(09092421)	468330.00	3769941.69
177.37430	468355.00	3769941.69	161.69908	(09040422)	468380.00	3769941.69
211.86666	468405.00	3769941.69	195.09019	(10022702)	468430.00	3769941.69
154.45083	468330.00	3769966.69	142.93977	(09092421)	468355.00	3769966.69
182.13320	468380.00	3769966.69	168.78485	(10022702)	468405.00	3769966.69
137.46349	468430.00	3769966.69	194.02877	(09051605)	468330.00	3769991.69
157.77195	468355.00	3769991.69	146.34898	(10022702)	468380.00	3769991.69
137.58393	468330.00	3770016.69	129.77284	(10110807)	468355.00	3770016.69
120.77424	468380.00	3770016.69	149.04043	(12110524)	468330.00	3770041.69
142.45080	468355.00	3770041.69	132.27625	(12110524)	468380.00	3770041.69
126.05945	468330.00	3770066.69	118.43093	(12110524)	468355.00	3770066.69
112.65012	468380.00	3770066.69	130.98177	(08102121)	468330.00	3770091.69
124.50771	468355.00	3770091.69	116.59666	(08102121)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB42 ***
 INCLUDING SOURCE(S): FWYWB42 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) CONC	Y-COORD (M) (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
166.19038	468330.00 (09102322)	151.52715	(09102322)	468355.00	3769866.69
202.41320	468380.00 (12093021)	182.55131	(12093021)	468405.00	3769866.69
146.72898	468430.00 (12093021)	226.55155	(10092522)	468330.00	3769891.69
176.66296	468355.00 (12121019)	160.45311	(12092322)	468380.00	3769891.69
217.65044	468405.00 (08112119)	196.84196	(08112119)	468430.00	3769891.69
157.39384	468330.00 (08112119)	143.23602	(08112119)	468355.00	3769916.69
183.96142	468380.00 (09111522)	170.05251	(08112119)	468405.00	3769916.69
137.49258	468430.00 (08112119)	204.05326	(09040422)	468330.00	3769941.69
161.24428	468355.00 (09040422)	147.68579	(09111522)	468380.00	3769941.69
194.21182	468405.00 (10022702)	176.39276	(09092421)	468430.00	3769941.69
142.54704	468330.00 (09092421)	131.56734	(09040422)	468355.00	3769966.69
167.58238	468380.00 (10022702)	153.96124	(10022702)	468405.00	3769966.69
126.19612	468430.00 (09092421)	180.89910	(10110807)	468330.00	3769991.69
145.35968	468355.00 (10110807)	137.02420	(10022702)	468380.00	3769991.69
129.40449	468330.00 (10110807)	121.61237	(10022702)	468355.00	3770016.69
115.42005	468380.00 (10110807)	136.47780	(10110807)	468330.00	3770041.69
132.11460	468355.00 (12110524)	120.22692	(09051605)	468380.00	3770041.69
118.18576	468330.00 (12110524)	107.37662	(09051605)	468355.00	3770066.69
106.56738	468380.00 (12110524)	125.18816	(12110524)	468330.00	3770091.69
116.31559	468355.00 (08102121)	111.92296	(12110524)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB43 ***
 INCLUDING SOURCE(S): FWYWB43 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

X-COORD (M) CONC	Y-COORD (M) (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
151.31162	468330.00 (09102322)	235.19209	(09092423)	468355.00	3769866.69
182.37199	468380.00 (12093021)	165.64984	(09102322)	468405.00	3769866.69
135.21976	468430.00 (12093021)	201.42428	(12092322)	468330.00	3769891.69
160.08771	468355.00 (10092522)	146.22849	(12092322)	468380.00	3769891.69
196.16569	468405.00 (08112119)	176.22158	(12121019)	468430.00	3769891.69
143.33672	468330.00 (08112119)	131.62203	(12121019)	468355.00	3769916.69
168.51219	468380.00 (08112119)	156.70033	(08112119)	468405.00	3769916.69
128.70715	468430.00 (08112119)	182.73058	(09111522)	468330.00	3769941.69
146.82849	468355.00 (09111522)	136.44246	(08112119)	468380.00	3769941.69
175.29911	468405.00 (09092421)	160.68311	(09040422)	468430.00	3769941.69
131.40745	468330.00 (09040422)	121.39655	(09111522)	468355.00	3769966.69
153.63889	468380.00 (10022702)	141.96579	(09092421)	468405.00	3769966.69
117.87221	468430.00 (09092421)	166.28917	(10022702)	468330.00	3769991.69
136.41406	468355.00 (10022702)	125.88534	(08121207)	468380.00	3769991.69
120.98462	468330.00 (10022702)	113.68562	(10022702)	468355.00	3770016.69
107.63480	468380.00 (10110807)	128.94718	(10110807)	468330.00	3770041.69
119.65232	468355.00 (09051605)	114.90446	(10110807)	468380.00	3770041.69
107.24420	468330.00 (12110524)	180.09840	(11092606)	468355.00	3770066.69
173.38936	468380.00 (10100703)	117.88044	(12110524)	468330.00	3770091.69
111.07462	468355.00 (12110524)	106.29630	(12110524)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB44 ***
 INCLUDING SOURCE(S): FWYWB44 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
234.29209	468330.00	3769866.69	220.90326	(09092423)	468355.00	3769866.69
165.19503	468380.00	3769866.69	151.27023	(09102322)	468405.00	3769866.69
124.57964	468430.00	3769866.69	181.97401	(12093021)	468330.00	3769891.69
146.10847	468355.00	3769891.69	134.84523	(12093021)	468380.00	3769891.69
175.51077	468405.00	3769891.69	159.88418	(10092522)	468430.00	3769891.69
131.50896	468330.00	3769916.69	121.39101	(10092522)	468355.00	3769916.69
155.98562	468380.00	3769916.69	143.25180	(08112119)	468405.00	3769916.69
119.58261	468430.00	3769916.69	166.96854	(08112119)	468330.00	3769941.69
135.35722	468355.00	3769941.69	128.20388	(08112119)	468380.00	3769941.69
160.11394	468405.00	3769941.69	145.96007	(09111522)	468430.00	3769941.69
120.89469	468330.00	3769966.69	113.10837	(09111522)	468355.00	3769966.69
141.36005	468380.00	3769966.69	131.10034	(09040422)	468405.00	3769966.69
109.87194	468430.00	3769966.69	153.29111	(10022702)	468330.00	3769991.69
125.59145	468355.00	3769991.69	117.64288	(09092421)	468380.00	3769991.69
113.55745	468330.00	3770016.69	105.59549	(09092421)	468355.00	3770016.69
178.48497	468380.00	3770016.69	120.31644	(10022702)	468330.00	3770041.69
114.41455	468355.00	3770041.69	107.59804	(10110807)	468380.00	3770041.69
102.32847	468330.00	3770066.69	172.21377	(12091521)	468355.00	3770066.69
168.19182	468380.00	3770066.69	107.44133	(12110524)	468330.00	3770091.69
180.37246	468355.00	3770091.69	171.36722	(08070503)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB45 ***
 INCLUDING SOURCE(S): FWYWB45 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
217.29178	468330.00	3769866.69	205.38984	(09092423)	468355.00	3769866.69
150.73718	(09092423)					
115.41205	468380.00	3769866.69	138.49480	(09102322)	468405.00	3769866.69
133.69521	(09102322)					
159.30007	468430.00	3769866.69	164.56658	(12093021)	468330.00	3769891.69
121.17868	(09102322)					
142.98655	468355.00	3769891.69	124.36792	(12093021)	468380.00	3769891.69
116.79373	(12093021)					
105.19843	468405.00	3769891.69	145.63041	(12092322)	468430.00	3769891.69
166.37316	(12121019)					
107.32132	468330.00	3769916.69	112.44994	(12092322)	468355.00	3769916.69
167.45447	(12121019)					
158.83722	468380.00	3769916.69	130.80680	(08112119)	468405.00	3769916.69
170.09768	(08112119)					
	468430.00	3769916.69	154.12369	(08112119)	468330.00	3769941.69
	(08112119)					
	468355.00	3769941.69	119.17017	(08112119)	468380.00	3769941.69
	(08112119)					
	468405.00	3769941.69	134.70938	(09111522)	468430.00	3769941.69
	(09040422)					
	468330.00	3769966.69	106.21267	(08112119)	468355.00	3769966.69
	(09111522)					
	468380.00	3769966.69	120.29599	(09040422)	468405.00	3769966.69
	(09040422)					
	468430.00	3769966.69	139.77451	(09092421)	468330.00	3769991.69
	(09040422)					
	468355.00	3769991.69	109.58365	(09040422)	468380.00	3769991.69
	(09092421)					
	468330.00	3770016.69	99.24977	(09092421)	468355.00	3770016.69
	(08121207)					
	468380.00	3770016.69	112.97481	(10022702)	468330.00	3770041.69
	(08100106)					
	468355.00	3770041.69	101.59680	(10022702)	468380.00	3770041.69
	(10110807)					
	468330.00	3770066.69	164.03114	(08062123)	468355.00	3770066.69
	(11092606)					
	468380.00	3770066.69	100.74027	(10110807)	468330.00	3770091.69
	(12091521)					
	468355.00	3770091.69	163.85765	(09093004)	468380.00	3770091.69
	(08070503)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB46 ***
 INCLUDING SOURCE(S): FWYWB46 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
202.74982	468330.00	3769866.69	192.08360	(09092423)	468355.00	3769866.69
138.22247	(09092423)					
107.51569	468380.00	3769866.69	127.39344	(09102322)	468405.00	3769866.69
123.61966	(09102322)					
145.17799	468430.00	3769866.69	149.63077	(12093021)	468330.00	3769891.69
112.22521	(09102322)					
131.12184	468355.00	3769891.69	115.09054	(12093021)	468380.00	3769891.69
102.53046	(12093021)					
98.64064	468405.00	3769891.69	133.64080	(12092322)	468430.00	3769891.69
158.24086	(10092522)					
100.36948	468330.00	3769916.69	104.61998	(12092322)	468355.00	3769916.69
159.09424	(10092522)					
152.54269	468380.00	3769916.69	120.94781	(12121019)	468405.00	3769916.69
161.99203	(08112119)					
	468430.00	3769916.69	142.05377	(08112119)	468330.00	3769941.69
	(08112119)					
	468355.00	3769941.69	110.72488	(08112119)	468380.00	3769941.69
	(08112119)					
	468405.00	3769941.69	124.37873	(08112119)	468430.00	3769941.69
	(09111522)					
	468330.00	3769966.69	100.19328	(08112119)	468355.00	3769966.69
	(09111522)					
	468380.00	3769966.69	111.81113	(09111522)	468405.00	3769966.69
	(09040422)					
	468430.00	3769966.69	129.43986	(09092421)	468330.00	3769991.69
	(09111522)					
	468355.00	3769991.69	101.84426	(09040422)	468380.00	3769991.69
	(09040422)					
	468330.00	3770016.69	93.19608	(09040422)	468355.00	3770016.69
	(09092421)					
	468380.00	3770016.69	105.00379	(10022702)	468330.00	3770041.69
	(09060205)					
	468355.00	3770041.69	95.80998	(10022702)	468380.00	3770041.69
	(10022702)					
	468330.00	3770066.69	156.30784	(08062123)	468355.00	3770066.69
	(08062123)					
	468380.00	3770066.69	96.33771	(10110807)	468330.00	3770091.69
	(12091521)					
	468355.00	3770091.69	155.36972	(11092606)	468380.00	3770091.69
	(10100703)					

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB47 ***
 INCLUDING SOURCE(S): FWYWB47 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
197.37734	468330.00	3769866.69	188.73336	(12071822)	468355.00	3769866.69
215.03456	468380.00	3769866.69	206.48833	(11082723)	468405.00	3769866.69
175.80567	468430.00	3769866.69	136.70507	(12093021)	468330.00	3769891.69
194.73563	468355.00	3769891.69	184.76167	(10082023)	468380.00	3769891.69
132.90195	468405.00	3769891.69	122.90343	(12092322)	468430.00	3769891.69
104.18943	468330.00	3769916.69	166.07903	(12121704)	468355.00	3769916.69
120.44016	468380.00	3769916.69	111.86085	(12121019)	468405.00	3769916.69
163.04609	468430.00	3769916.69	130.50250	(08112119)	468330.00	3769941.69
109.84992	468355.00	3769941.69	102.83694	(08112119)	468380.00	3769941.69
123.17284	468405.00	3769941.69	115.91777	(08112119)	468430.00	3769941.69
98.32359	468330.00	3769966.69	161.31926	(09121208)	468355.00	3769966.69
110.64249	468380.00	3769966.69	104.14700	(09111522)	468405.00	3769966.69
155.31750	468430.00	3769966.69	119.47406	(09040422)	468330.00	3769991.69
101.43493	468355.00	3769991.69	94.40632	(09040422)	468380.00	3769991.69
160.59921	468330.00	3770016.69	156.52031	(09082924)	468355.00	3770016.69
154.97442	468380.00	3770016.69	97.53766	(08121207)	468330.00	3770041.69
164.73352	468355.00	3770041.69	157.88323	(08100106)	468380.00	3770041.69
158.03041	468330.00	3770066.69	153.47903	(09090303)	468355.00	3770066.69
150.38401	468380.00	3770066.69	162.98407	(12091521)	468330.00	3770091.69
159.94304	468355.00	3770091.69	155.02685	(12091521)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB48 ***
 INCLUDING SOURCE(S): FWYWB48 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
186.35158	468330.00	3769866.69	178.39360	(12071822)	468355.00	3769866.69
200.94268	468380.00	3769866.69	194.26777	(11082723)	468405.00	3769866.69
166.10653	468430.00	3769866.69	125.75918	(12093021)	468330.00	3769891.69
182.99468	468355.00	3769891.69	174.03394	(10082023)	468380.00	3769891.69
122.41735	468405.00	3769891.69	113.68664	(12092322)	468430.00	3769891.69
97.16666	468330.00	3769916.69	156.89758	(12121704)	468355.00	3769916.69
111.22273	468380.00	3769916.69	103.98497	(12121019)	468405.00	3769916.69
153.71457	468430.00	3769916.69	120.50880	(08112119)	468330.00	3769941.69
102.50956	468355.00	3769941.69	95.90152	(08112119)	468380.00	3769941.69
113.98050	468405.00	3769941.69	108.39092	(08112119)	468430.00	3769941.69
92.72584	468330.00	3769966.69	152.46800	(09121208)	468355.00	3769966.69
102.96369	468380.00	3769966.69	97.23878	(09111522)	468405.00	3769966.69
146.25605	468430.00	3769966.69	110.71786	(09040422)	468330.00	3769991.69
94.62337	468355.00	3769991.69	88.72366	(09111522)	468380.00	3769991.69
152.43361	468330.00	3770016.69	148.07782	(08103121)	468355.00	3770016.69
147.90921	468380.00	3770016.69	91.72481	(09092421)	468330.00	3770041.69
154.83612	468355.00	3770041.69	151.14474	(09060205)	468380.00	3770041.69
150.37885	468330.00	3770066.69	145.81830	(09090303)	468355.00	3770066.69
144.38609	468380.00	3770066.69	154.43415	(08062123)	468330.00	3770091.69
153.21495	468355.00	3770091.69	148.32070	(12091521)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB49 ***
 INCLUDING SOURCE(S): FWYWB49 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
176.49028	468330.00	3769866.69	168.89413	(12071822)	468355.00	3769866.69
188.38993	468380.00	3769866.69	183.22197	(11082723)	468405.00	3769866.69
157.29035	468430.00	3769866.69	116.23756	(12093021)	468330.00	3769891.69
172.42310	468355.00	3769891.69	164.33472	(10082023)	468380.00	3769891.69
113.23393	468405.00	3769891.69	105.57804	(12092322)	468430.00	3769891.69
90.98671	468330.00	3769916.69	148.50852	(12121704)	468355.00	3769916.69
103.62486	468380.00	3769916.69	96.96723	(12121019)	468405.00	3769916.69
146.49775	468430.00	3769916.69	111.61795	(08112119)	468330.00	3769941.69
95.86291	468355.00	3769941.69	89.64820	(08112119)	468380.00	3769941.69
106.22322	468405.00	3769941.69	101.51820	(08112119)	468430.00	3769941.69
87.54078	468330.00	3769966.69	144.30962	(08021019)	468355.00	3769966.69
96.56683	468380.00	3769966.69	90.93996	(12091601)	468405.00	3769966.69
139.86340	468430.00	3769966.69	102.57178	(09040422)	468330.00	3769991.69
88.24385	468355.00	3769991.69	83.75348	(09111522)	468380.00	3769991.69
144.92591	468330.00	3770016.69	141.11063	(08103121)	468355.00	3770016.69
141.23774	468380.00	3770016.69	86.37754	(09092421)	468330.00	3770041.69
146.11358	468355.00	3770041.69	144.14972	(09060205)	468380.00	3770041.69
143.27996	468330.00	3770066.69	138.69097	(08080201)	468355.00	3770066.69
138.25286	468380.00	3770066.69	148.56450	(08062123)	468330.00	3770091.69
148.30308	468355.00	3770091.69	140.39729	(12083102)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB50 ***
 INCLUDING SOURCE(S): FWYWB50 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
165.88469	468330.00	3769866.69	158.66836	(12071822)	468355.00	3769866.69
175.82433	(11082723)					
148.17741	468380.00	3769866.69	171.44098	(11082723)	468405.00	3769866.69
105.28062	(08092421)					
85.50470	468430.00	3769866.69	107.92555	(12093021)	468330.00	3769891.69
96.86897	(08092421)					
132.50050	468355.00	3769891.69	154.38597	(10082023)	468380.00	3769891.69
131.89838	(10082023)					
140.02180	468405.00	3769891.69	98.42798	(12092322)	468430.00	3769891.69
134.80613	(12092322)					
139.29087	468330.00	3769916.69	139.82084	(12121704)	468355.00	3769916.69
134.80613	(12092322)					
134.80613	468380.00	3769916.69	90.79231	(10092522)	468405.00	3769916.69
134.80613	(12121019)					
134.80613	468430.00	3769916.69	103.72134	(08112119)	468330.00	3769941.69
134.80613	(11100121)					
134.80613	468355.00	3769941.69	84.04153	(12121019)	468380.00	3769941.69
134.80613	(08112119)					
134.80613	468405.00	3769941.69	95.27528	(08112119)	468430.00	3769941.69
134.80613	(08112119)					
134.80613	468330.00	3769966.69	136.33678	(08021019)	468355.00	3769966.69
134.80613	(08112119)					
134.80613	468380.00	3769966.69	86.09998	(08112119)	468405.00	3769966.69
134.80613	(09111522)					
134.80613	468430.00	3769966.69	95.36682	(09111522)	468330.00	3769991.69
134.80613	(12112419)					
134.80613	468355.00	3769991.69	79.10518	(09111522)	468380.00	3769991.69
134.80613	(09111522)					
134.80613	468330.00	3770016.69	134.07415	(12071505)	468355.00	3770016.69
134.80613	(09082924)					
134.80613	468380.00	3770016.69	81.50937	(09040422)	468330.00	3770041.69
134.80613	(08080802)					
134.80613	468355.00	3770041.69	136.82220	(10101203)	468380.00	3770041.69
134.80613	(09060205)					
134.80613	468330.00	3770066.69	132.29275	(08080201)	468355.00	3770066.69
134.80613	(09090303)					
134.80613	468380.00	3770066.69	140.28592	(08062123)	468330.00	3770091.69
134.80613	(09090303)					
134.80613	468355.00	3770091.69	133.89507	(08062123)	468380.00	3770091.69
134.80613	(12091521)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB51 ***
 INCLUDING SOURCE(S): FWYWB51 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
156.80144	468330.00	3769866.69	148.83946	(12071822)	468355.00	3769866.69
164.82906	(11082723)					
139.87341	468380.00	3769866.69	160.87224	(11082723)	468405.00	3769866.69
151.58352	(08092421)					
98.20335	468430.00	3769866.69	100.71120	(12093021)	468330.00	3769891.69
80.51948	(08092421)					
90.79074	468355.00	3769891.69	145.56214	(10082023)	468380.00	3769891.69
127.61492	(10082023)					
125.91233	468405.00	3769891.69	92.19715	(12092322)	468430.00	3769891.69
127.61492	(12092322)					
125.91233	468330.00	3769916.69	132.29704	(12121704)	468355.00	3769916.69
127.61492	(12092322)					
125.91233	468380.00	3769916.69	85.29639	(10092522)	468405.00	3769916.69
127.61492	(12121019)					
125.91233	468430.00	3769916.69	96.87300	(08112119)	468330.00	3769941.69
127.61492	(11100121)					
125.91233	468355.00	3769941.69	79.25381	(12121019)	468380.00	3769941.69
127.61492	(08112119)					
125.91233	468405.00	3769941.69	89.45270	(08112119)	468430.00	3769941.69
127.61492	(08112119)					
125.91233	468330.00	3769966.69	129.00012	(08021019)	468355.00	3769966.69
127.61492	(08112119)					
125.91233	468380.00	3769966.69	81.31589	(08112119)	468405.00	3769966.69
127.61492	(09111522)					
125.91233	468430.00	3769966.69	89.65329	(09111522)	468330.00	3769991.69
127.61492	(09121208)					
125.91233	468355.00	3769991.69	74.74144	(09111522)	468380.00	3769991.69
127.61492	(09111522)					
125.91233	468330.00	3770016.69	127.15745	(12071505)	468355.00	3770016.69
127.61492	(08052302)					
125.91233	468380.00	3770016.69	77.02420	(09040422)	468330.00	3770041.69
127.61492	(08080802)					
125.91233	468355.00	3770041.69	129.77041	(10101203)	468380.00	3770041.69
127.61492	(09060205)					
125.91233	468330.00	3770066.69	125.52750	(08080201)	468355.00	3770066.69
127.61492	(09060205)					
125.91233	468380.00	3770066.69	132.02580	(09090303)	468330.00	3770091.69
127.61492	(09090303)					
125.91233	468355.00	3770091.69	127.05965	(08062123)	468380.00	3770091.69
127.61492	(12083102)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB52 ***
 INCLUDING SOURCE(S): FWYWB52 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
148.28108	468330.00	3769866.69	141.54039	(11082723)	468355.00	3769866.69
154.78167	468380.00	3769866.69	151.12876	(11082723)	468405.00	3769866.69
132.21204	468430.00	3769866.69	94.24332	(12093021)	468330.00	3769891.69
142.46758	468355.00	3769891.69	137.47733	(10082023)	468380.00	3769891.69
91.95475	468405.00	3769891.69	86.60269	(12092322)	468430.00	3769891.69
76.00676	468330.00	3769916.69	125.41745	(12121704)	468355.00	3769916.69
85.33896	468380.00	3769916.69	80.38750	(12121019)	468405.00	3769916.69
124.04205	468430.00	3769916.69	90.76063	(08112119)	468330.00	3769941.69
79.66845	468355.00	3769941.69	74.91591	(12121019)	468380.00	3769941.69
88.18444	468405.00	3769941.69	84.20704	(08112119)	468430.00	3769941.69
74.03632	468330.00	3769966.69	122.30183	(08021019)	468355.00	3769966.69
80.15347	468380.00	3769966.69	76.95857	(08112119)	468405.00	3769966.69
119.82435	468430.00	3769966.69	84.44856	(09111522)	468330.00	3769991.69
74.15354	468355.00	3769991.69	70.74428	(09111522)	468380.00	3769991.69
122.36428	468330.00	3770016.69	120.68769	(12071505)	468355.00	3770016.69
121.47936	468380.00	3770016.69	72.85923	(09040422)	468330.00	3770041.69
125.08447	468355.00	3770041.69	123.20048	(09082924)	468380.00	3770041.69
121.48719	468330.00	3770066.69	118.99480	(10101203)	468355.00	3770066.69
118.17761	468380.00	3770066.69	124.95964	(09090303)	468330.00	3770091.69
125.75616	468355.00	3770091.69	121.13645	(09090303)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB53 ***
 INCLUDING SOURCE(S): FWYWB53 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
140.30093	468330.00	3769866.69	134.73015	(11082723)	468355.00	3769866.69
145.58453	468380.00	3769866.69	142.46254	(08092421)	468405.00	3769866.69
125.13298	468430.00	3769866.69	88.41850	(12093021)	468330.00	3769891.69
134.17772	468355.00	3769891.69	130.05166	(10082023)	468380.00	3769891.69
86.36757	468405.00	3769891.69	81.55523	(12092322)	468430.00	3769891.69
71.90449	468330.00	3769916.69	119.10587	(12121704)	468355.00	3769916.69
80.42423	468380.00	3769916.69	75.95147	(12121019)	468405.00	3769916.69
117.70883	468430.00	3769916.69	85.27498	(08112119)	468330.00	3769941.69
75.28255	468355.00	3769941.69	70.96895	(12121019)	468380.00	3769941.69
83.14682	468405.00	3769941.69	79.45958	(08112119)	468430.00	3769941.69
70.23458	468330.00	3769966.69	116.16433	(08021019)	468355.00	3769966.69
75.61043	468380.00	3769966.69	72.97612	(08112119)	468405.00	3769966.69
114.18363	468430.00	3769966.69	79.69426	(09111522)	468330.00	3769991.69
70.33876	468355.00	3769991.69	67.07225	(09111522)	468380.00	3769991.69
116.63185	468330.00	3770016.69	114.63471	(12071505)	468355.00	3770016.69
116.01419	468380.00	3770016.69	68.98933	(09040422)	468330.00	3770041.69
119.19275	468355.00	3770041.69	117.57037	(09082924)	468380.00	3770041.69
115.95600	468330.00	3770066.69	113.67459	(10101203)	468355.00	3770066.69
112.41637	468380.00	3770066.69	118.00985	(10011723)	468330.00	3770091.69
119.92810	468355.00	3770091.69	115.41224	(09090303)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB54 ***
 INCLUDING SOURCE(S): FWYWB54 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
132.48991	468330.00	3769866.69	127.94137	(11082723)	468355.00	3769866.69
136.87145	468380.00	3769866.69	134.68789	(08092421)	468405.00	3769866.69
118.64614	468430.00	3769866.69	83.16193	(12093021)	468330.00	3769891.69
126.35815	468355.00	3769891.69	122.96874	(10082023)	468380.00	3769891.69
81.34273	468405.00	3769891.69	76.99090	(12092322)	468430.00	3769891.69
68.20862	468330.00	3769916.69	113.07858	(12121704)	468355.00	3769916.69
75.98386	468380.00	3769916.69	71.92653	(12121019)	468405.00	3769916.69
111.63150	468430.00	3769916.69	80.34002	(08112119)	468330.00	3769941.69
71.29893	468355.00	3769941.69	67.37201	(12121019)	468380.00	3769941.69
78.58137	468405.00	3769941.69	75.15525	(08112119)	468430.00	3769941.69
66.75665	468330.00	3769966.69	110.30198	(08021019)	468355.00	3769966.69
71.49153	468380.00	3769966.69	69.33230	(08112119)	468405.00	3769966.69
108.74534	468430.00	3769966.69	75.34973	(09111522)	468330.00	3769991.69
66.82403	468355.00	3769991.69	63.69776	(09111522)	468380.00	3769991.69
110.99612	468330.00	3770016.69	108.77516	(12071505)	468355.00	3770016.69
110.48832	468380.00	3770016.69	65.39923	(09040422)	468330.00	3770041.69
113.32726	468355.00	3770041.69	111.91737	(09082924)	468380.00	3770041.69
110.30087	468330.00	3770066.69	108.39903	(08080802)	468355.00	3770066.69
107.71908	468380.00	3770066.69	112.68956	(09060205)	468330.00	3770091.69
113.73169	468355.00	3770091.69	109.35902	(09090303)	468380.00	3770091.69

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: FWYWB55 ***
 INCLUDING SOURCE(S): FWYWB55 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
121.14793	468330.00	3769866.69	117.54580	(11082723)	468355.00	3769866.69
74.34868	(08092421)					
109.90979	468380.00	3769866.69	124.30662	(08092421)	468405.00	3769866.69
68.97410	(12093021)					
76.85056	468430.00	3769866.69	78.44967	(12093021)	468330.00	3769891.69
64.87366	(10082023)					
72.01160	468355.00	3769891.69	113.41033	(10082023)	468380.00	3769891.69
61.29905	(12092322)					
101.69498	468405.00	3769891.69	72.88977	(12092322)	468430.00	3769891.69
60.94693	(10092522)					
103.02461	468330.00	3769916.69	61.90237	(12092322)	468355.00	3769916.69
99.93752	(10092522)					
105.13452	468380.00	3769916.69	68.31109	(12121019)	468405.00	3769916.69
	(12121019)					
	468430.00	3769916.69	75.94277	(08112119)	468330.00	3769941.69
	(12121019)					
	468355.00	3769941.69	64.12767	(12121019)	468380.00	3769941.69
	(08112119)					
	468405.00	3769941.69	71.29326	(08112119)	468430.00	3769941.69
	(08112119)					
	468330.00	3769966.69	60.79615	(08112119)	468355.00	3769966.69
	(08112119)					
	468380.00	3769966.69	66.03697	(08112119)	468405.00	3769966.69
	(08112119)					
	468430.00	3769966.69	71.42487	(09111522)	468330.00	3769991.69
	(08112119)					
	468355.00	3769991.69	60.63598	(12101522)	468380.00	3769991.69
	(09111522)					
	468330.00	3770016.69	100.89712	(12071505)	468355.00	3770016.69
	(09111522)					
	468380.00	3770016.69	62.10780	(09040422)	468330.00	3770041.69
	(08103121)					
	468355.00	3770041.69	103.81368	(09082924)	468380.00	3770041.69
	(09040422)					
	468330.00	3770066.69	101.38448	(09082924)	468355.00	3770066.69
	(10101203)					
	468380.00	3770066.69	105.34246	(09060205)	468330.00	3770091.69
	(09060205)					
	468355.00	3770091.69	100.63259	(10011723)	468380.00	3770091.69
	(08100106)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL1 ***
 INCLUDING SOURCE(S): RAIL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
314.22783	468330.00	3769866.69	342.67554	(11090519)	468355.00	3769866.69
275.75964	(11040421)					
295.22255	468380.00	3769866.69	292.34432	(08082823)	468405.00	3769866.69
259.46112	(09111019)					
230.28807	468430.00	3769866.69	248.91341	(09082321)	468330.00	3769891.69
187.03379	(09030220)					
198.05544	468355.00	3769891.69	277.84793	(11101505)	468380.00	3769891.69
174.05197	(08082823)					
161.27692	468405.00	3769891.69	243.89844	(08071524)	468430.00	3769891.69
153.72606	(09111019)					
144.92416	468330.00	3769916.69	257.70702	(09030220)	468355.00	3769916.69
137.23248	(11090519)					
127.42180	468380.00	3769916.69	232.38282	(11040421)	468405.00	3769916.69
122.10304	(08082823)					
	468430.00	3769916.69	206.98001	(08071524)	468330.00	3769941.69
	(09051801)					
	468355.00	3769941.69	221.22477	(11090519)	468380.00	3769941.69
	(11101505)					
	468405.00	3769941.69	197.53958	(12080303)	468430.00	3769941.69
	(08082823)					
	468330.00	3769966.69	205.30589	(12071303)	468355.00	3769966.69
	(09030220)					
	468380.00	3769966.69	190.03125	(08102120)	468405.00	3769966.69
	(11040421)					
	468430.00	3769966.69	172.58954	(08082823)	468330.00	3769991.69
	(12071303)					
	468355.00	3769991.69	178.21504	(09030220)	468380.00	3769991.69
	(11090519)					
	468330.00	3770016.69	169.54022	(12071303)	468355.00	3770016.69
	(09051801)					
	468380.00	3770016.69	157.37268	(12081621)	468330.00	3770041.69
	(12071303)					
	468355.00	3770041.69	147.58517	(09051801)	468380.00	3770041.69
	(09030220)					
	468330.00	3770066.69	139.50119	(12071303)	468355.00	3770066.69
	(12071303)					
	468380.00	3770066.69	132.89765	(09030220)	468330.00	3770091.69
	(09092720)					
	468355.00	3770091.69	127.89688	(12071303)	468380.00	3770091.69
	(09051801)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL2 ***
 INCLUDING SOURCE(S): RAIL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
369.99013	468330.00	3769866.69	408.37918	(11090519)	468355.00	3769866.69
313.46349	(12080303)					
345.38470	468380.00	3769866.69	342.53776	(08071524)	468405.00	3769866.69
255.38415	(09111019)					
209.59715	468430.00	3769866.69	281.50337	(08070622)	468330.00	3769891.69
193.24510	(12081621)					
178.42688	468355.00	3769891.69	321.54028	(11040421)	468380.00	3769891.69
168.79382	(08082823)					
158.92499	468405.00	3769891.69	278.00408	(09111019)	468430.00	3769891.69
150.35156	(08112519)					
138.11757	468330.00	3769916.69	297.81940	(09030220)	468355.00	3769916.69
132.65696	(11090519)					
	468380.00	3769916.69	263.94050	(12080303)	468405.00	3769916.69
	(08082823)					
	468430.00	3769916.69	233.68846	(09111019)	468330.00	3769941.69
	(09051801)					
	468355.00	3769941.69	251.63465	(11090519)	468380.00	3769941.69
	(11040421)					
	468405.00	3769941.69	222.73819	(08082823)	468430.00	3769941.69
	(08071524)					
	468330.00	3769966.69	232.00283	(12071303)	468355.00	3769966.69
	(09030220)					
	468380.00	3769966.69	211.75567	(08102120)	468405.00	3769966.69
	(12080303)					
	468430.00	3769966.69	191.38937	(08082823)	468330.00	3769991.69
	(12071303)					
	468355.00	3769991.69	198.83568	(09030220)	468380.00	3769991.69
	(11090519)					
	468330.00	3770016.69	187.82267	(12071303)	468355.00	3770016.69
	(09051801)					
	468380.00	3770016.69	174.24866	(11090519)	468330.00	3770041.69
	(12071303)					
	468355.00	3770041.69	162.28410	(09051801)	468380.00	3770041.69
	(09030220)					
	468330.00	3770066.69	152.09948	(09092720)	468355.00	3770066.69
	(12071303)					
	468380.00	3770066.69	145.22456	(09030220)	468330.00	3770091.69
	(09092720)					
	468355.00	3770091.69	139.29522	(12071303)	468380.00	3770091.69
	(09051801)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL3 ***
 INCLUDING SOURCE(S): RAIL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
435.12620	468330.00	3769866.69	481.94285	(11101505)	468355.00	3769866.69
349.29655	(08093020)					
409.91232	468380.00	3769866.69	398.83616	(09111019)	468405.00	3769866.69
281.16618	(08070622)					
321.43197	468430.00	3769866.69	312.07992	(11073121)	468330.00	3769891.69
277.77323	(11090519)					
222.54433	468355.00	3769891.69	371.40046	(12080303)	468380.00	3769891.69
187.92347	(08071524)					
174.28189	468405.00	3769891.69	313.27882	(09111019)	468430.00	3769891.69
162.40154	(08070622)					
152.27260	468330.00	3769916.69	345.89770	(12081621)	468355.00	3769916.69
145.28967	(11040421)					
	468380.00	3769916.69	300.86106	(08082823)	468405.00	3769916.69
	(09111019)					
	468430.00	3769916.69	255.17220	(08112519)	468330.00	3769941.69
	(09030220)					
	468355.00	3769941.69	283.18199	(11090519)	468380.00	3769941.69
	(12080303)					
	468405.00	3769941.69	246.29611	(08082823)	468430.00	3769941.69
	(09111019)					
	468330.00	3769966.69	259.01606	(09051801)	468355.00	3769966.69
	(11090519)					
	468380.00	3769966.69	235.34635	(11040421)	468405.00	3769966.69
	(08082823)					
	468430.00	3769966.69	209.40848	(08071524)	468330.00	3769991.69
	(12071303)					
	468355.00	3769991.69	222.18774	(09030220)	468380.00	3769991.69
	(08102120)					
	468330.00	3770016.69	209.05951	(12071303)	468355.00	3770016.69
	(09030220)					
	468380.00	3770016.69	193.13634	(11090519)	468330.00	3770041.69
	(12071303)					
	468355.00	3770041.69	178.49710	(09051801)	468380.00	3770041.69
	(11090519)					
	468330.00	3770066.69	168.94372	(12071303)	468355.00	3770066.69
	(09051801)					
	468380.00	3770066.69	158.96647	(09030220)	468330.00	3770091.69
	(09092720)					
	468355.00	3770091.69	150.45753	(12071303)	468380.00	3770091.69
	(09030220)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL4 ***
 INCLUDING SOURCE(S): RAIL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
511.02176	468330.00	3769866.69	573.52442	(08093020)	468355.00	3769866.69
381.17862	(09111019)					
469.96708	468380.00	3769866.69	438.25815	(09093003)	468405.00	3769866.69
383.99633	(12071122)					
302.25119	468430.00	3769866.69	332.24604	(11082421)	468330.00	3769891.69
362.48007	(11040421)					
248.53709	468355.00	3769891.69	425.51064	(08071524)	468380.00	3769891.69
276.39306	(08112519)					
219.38362	468405.00	3769891.69	338.08305	(09093003)	468430.00	3769891.69
169.08243	(11073121)					
157.26507	468330.00	3769916.69	396.82123	(11090519)	468355.00	3769916.69
	(08093020)					
	468380.00	3769916.69	333.02871	(08071524)	468405.00	3769916.69
	(08112519)					
	468430.00	3769916.69	273.38887	(08070822)	468330.00	3769941.69
	(11090519)					
	468355.00	3769941.69	314.41893	(11040421)	468380.00	3769941.69
	(08082823)					
	468405.00	3769941.69	274.00877	(09111019)	468430.00	3769941.69
	(12112919)					
	468330.00	3769966.69	294.67200	(09030220)	468355.00	3769966.69
	(11101505)					
	468380.00	3769966.69	257.66371	(12080303)	468405.00	3769966.69
	(08071524)					
	468430.00	3769966.69	229.62369	(09111019)	468330.00	3769991.69
	(09030220)					
	468355.00	3769991.69	247.59612	(11090519)	468380.00	3769991.69
	(11040421)					
	468330.00	3770016.69	226.87446	(09051801)	468355.00	3770016.69
	(11090519)					
	468380.00	3770016.69	208.13241	(11101505)	468330.00	3770041.69
	(12071303)					
	468355.00	3770041.69	197.78199	(09030220)	468380.00	3770041.69
	(11090519)					
	468330.00	3770066.69	186.80557	(12071303)	468355.00	3770066.69
	(09030220)					
	468380.00	3770066.69	173.65731	(11090519)	468330.00	3770091.69
	(12071303)					
	468355.00	3770091.69	161.36696	(09051801)	468380.00	3770091.69
	(12081621)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL5 ***
 INCLUDING SOURCE(S): RAIL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
561.00948	468330.00	3769866.69	674.50147	(09111019)	468355.00	3769866.69
402.24196	(09093003)					
543.01321	468380.00	3769866.69	474.28190	(09071824)	468405.00	3769866.69
317.63268	(12082501)					
407.50659	468430.00	3769866.69	343.67045	(10011018)	468330.00	3769891.69
325.42265	(11070222)					
267.15196	468355.00	3769891.69	478.85771	(08112519)	468380.00	3769891.69
288.09721	(09093003)					
203.77654	468405.00	3769891.69	362.32218	(12082602)	468430.00	3769891.69
194.31731	(10071101)					
183.17469	468330.00	3769916.69	449.30909	(08070122)	468355.00	3769916.69
171.23763	(09111019)					
	468380.00	3769916.69	364.80824	(12112919)	468405.00	3769916.69
	(09093003)					
	468430.00	3769916.69	291.39410	(12071122)	468330.00	3769941.69
	(11101505)					
	468355.00	3769941.69	351.97852	(08093020)	468380.00	3769941.69
	(09111019)					
	468405.00	3769941.69	291.65377	(12112919)	468430.00	3769941.69
	(08070822)					
	468330.00	3769966.69	333.03513	(11090519)	468355.00	3769966.69
	(12080303)					
	468380.00	3769966.69	281.93880	(11070222)	468405.00	3769966.69
	(09111019)					
	468430.00	3769966.69	240.65792	(09082321)	468330.00	3769991.69
	(11090519)					
	468355.00	3769991.69	268.82246	(11101505)	468380.00	3769991.69
	(08082823)					
	468330.00	3770016.69	253.91695	(09030220)	468355.00	3770016.69
	(11090519)					
	468380.00	3770016.69	224.95539	(12080303)	468330.00	3770041.69
	(09051801)					
	468355.00	3770041.69	217.71806	(11090519)	468380.00	3770041.69
	(11040421)					
	468330.00	3770066.69	200.05808	(09051801)	468355.00	3770066.69
	(12081621)					
	468380.00	3770066.69	185.82076	(08102120)	468330.00	3770091.69
	(12071303)					
	468355.00	3770091.69	176.35105	(09030220)	468380.00	3770091.69
	(11090519)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL6 ***
 INCLUDING SOURCE(S): RAIL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
612.47009	468330.00	3769866.69	758.23384	(08062701)	468355.00	3769866.69
413.79026	468380.00	3769866.69	499.48872	(10011018)	468405.00	3769866.69
622.19438	468430.00	3769866.69	348.28667	(10110218)	468330.00	3769891.69
444.98125	468355.00	3769891.69	526.11595	(11072702)	468380.00	3769891.69
329.12366	468405.00	3769891.69	378.06369	(12082501)	468430.00	3769891.69
448.97631	468330.00	3769916.69	516.93907	(09111019)	468355.00	3769916.69
345.62315	468380.00	3769916.69	393.34212	(11072702)	468405.00	3769916.69
435.05229	468430.00	3769916.69	304.26382	(12082501)	468330.00	3769941.69
347.03102	468355.00	3769941.69	396.38388	(09111019)	468380.00	3769941.69
279.98916	468405.00	3769941.69	310.81845	(10070303)	468430.00	3769941.69
336.40126	468330.00	3769966.69	367.86431	(11040421)	468355.00	3769966.69
280.46200	468380.00	3769966.69	315.59059	(09111019)	468405.00	3769966.69
319.86942	468430.00	3769966.69	254.87879	(09093003)	468330.00	3769991.69
275.49750	468355.00	3769991.69	294.70257	(08093020)	468380.00	3769991.69
262.51262	468330.00	3770016.69	284.33960	(11090519)	468355.00	3770016.69
248.86586	468380.00	3770016.69	246.43627	(08082823)	468330.00	3770041.69
220.18153	468355.00	3770041.69	235.21591	(11101505)	468380.00	3770041.69
213.23816	468330.00	3770066.69	221.60266	(09030220)	468355.00	3770066.69
197.04417	468380.00	3770066.69	200.63992	(11040421)	468330.00	3770091.69
182.44351	468355.00	3770091.69	192.41991	(11090519)	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL7 ***
 INCLUDING SOURCE(S): RAIL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
629.56777	468330.00	3769866.69	816.16843	(10011018)	468355.00	3769866.69
410.22350	468380.00	3769866.69	502.58714	(10071722)	468405.00	3769866.69
688.97520	468430.00	3769866.69	348.28112	(12071224)	468330.00	3769891.69
465.64435	468355.00	3769891.69	560.12057	(12082501)	468380.00	3769891.69
329.87897	468405.00	3769891.69	388.67621	(11102419)	468430.00	3769891.69
488.90001	468330.00	3769916.69	574.29382	(12120207)	468355.00	3769916.69
357.05809	468380.00	3769916.69	417.77579	(10071101)	468405.00	3769916.69
497.33062	468430.00	3769916.69	314.08789	(10011018)	468330.00	3769941.69
374.82084	468355.00	3769941.69	424.01965	(12120207)	468380.00	3769941.69
291.24279	468405.00	3769941.69	328.51320	(12091421)	468430.00	3769941.69
379.41542	468330.00	3769966.69	414.65463	(08093020)	468355.00	3769966.69
298.85342	468380.00	3769966.69	331.68968	(12120207)	468405.00	3769966.69
354.34281	468430.00	3769966.69	268.35566	(12082602)	468330.00	3769991.69
301.70552	468355.00	3769991.69	324.78678	(08071524)	468380.00	3769991.69
288.81159	468330.00	3770016.69	310.79634	(11101505)	468355.00	3770016.69
275.94441	468380.00	3770016.69	266.03016	(09111019)	468330.00	3770041.69
238.28841	468355.00	3770041.69	255.22943	(12080303)	468380.00	3770041.69
228.95645	468330.00	3770066.69	245.56389	(11090519)	468355.00	3770066.69
217.80731	468380.00	3770066.69	216.05984	(08082823)	468330.00	3770091.69
195.47199	468355.00	3770091.69	207.02994	(08102120)	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL8 ***
 INCLUDING SOURCE(S): RAIL8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
632.06280	468330.00	3769866.69	814.89888	(12071224)	468355.00	3769866.69
406.54199	468380.00	3769866.69	496.71179	(08071224)	468405.00	3769866.69
722.14834	468430.00	3769866.69	340.25094	(08071224)	468330.00	3769891.69
458.16270	468355.00	3769891.69	567.13286	(10110218)	468380.00	3769891.69
329.03421	468405.00	3769891.69	382.38274	(10102318)	468430.00	3769891.69
507.95684	468330.00	3769916.69	623.69638	(12091421)	468355.00	3769916.69
364.76820	468380.00	3769916.69	431.20806	(10011018)	468405.00	3769916.69
535.67014	468430.00	3769916.69	311.99819	(09061405)	468330.00	3769941.69
391.82793	468355.00	3769941.69	455.52505	(12082602)	468380.00	3769941.69
298.16768	468405.00	3769941.69	336.16527	(10102919)	468430.00	3769941.69
400.66352	468330.00	3769966.69	467.05155	(09111019)	468355.00	3769966.69
311.67270	468380.00	3769966.69	354.08084	(08062701)	468405.00	3769966.69
392.54712	468430.00	3769966.69	277.10610	(12082501)	468330.00	3769991.69
316.31740	468355.00	3769991.69	357.36275	(09111019)	468380.00	3769991.69
312.45335	468330.00	3770016.69	342.49297	(08093020)	468355.00	3770016.69
299.29197	468380.00	3770016.69	286.35689	(08112519)	468330.00	3770041.69
260.16772	468355.00	3770041.69	279.25693	(08093020)	468380.00	3770041.69
247.13673	468330.00	3770066.69	266.21797	(11101505)	468355.00	3770066.69
239.79520	468380.00	3770066.69	231.18223	(11070222)	468330.00	3770091.69
211.22342	468355.00	3770091.69	222.73497	(11040421)	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL9 ***
 INCLUDING SOURCE(S): RAIL9 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
581.15181	468330.00	3769866.69	810.92243	(12091207)	468355.00	3769866.69
379.52379	(08080522)					
732.19955	468380.00	3769866.69	463.12168	(08080522)	468405.00	3769866.69
461.81826	(08080522)					
324.00351	468430.00	3769866.69	320.09980	(08080522)	468330.00	3769891.69
522.71306	(12071224)					
363.18281	468355.00	3769891.69	576.44659	(12071224)	468380.00	3769891.69
298.34354	(08071224)					
430.91465	468405.00	3769891.69	382.58958	(08071224)	468430.00	3769891.69
320.92773	(08071224)					
441.04033	468330.00	3769916.69	659.51148	(10011018)	468355.00	3769916.69
337.72522	(10110218)					
270.37108	468380.00	3769916.69	428.06338	(12090823)	468405.00	3769916.69
225.97063	(10102318)					
	468430.00	3769916.69	314.33951	(12071224)	468330.00	3769941.69
	(12091421)					
	468355.00	3769941.69	476.84246	(10102919)	468380.00	3769941.69
	(10011018)					
	468405.00	3769941.69	346.71340	(11102419)	468430.00	3769941.69
	(09061405)					
	468330.00	3769966.69	504.55588	(09093003)	468355.00	3769966.69
	(12082602)					
	468380.00	3769966.69	372.65948	(12082501)	468405.00	3769966.69
	(11082721)					
	468430.00	3769966.69	285.70569	(10011018)	468330.00	3769991.69
	(09111019)					
	468355.00	3769991.69	381.71989	(09093003)	468380.00	3769991.69
	(08062701)					
	468330.00	3770016.69	378.76696	(11070222)	468355.00	3770016.69
	(08112519)					
	468380.00	3770016.69	303.96785	(09093003)	468330.00	3770041.69
	(08093020)					
	468355.00	3770041.69	304.71410	(09111019)	468380.00	3770041.69
	(12112919)					
	468330.00	3770066.69	289.18887	(08070122)	468355.00	3770066.69
	(08093020)					
	468380.00	3770066.69	254.15258	(09111019)	468330.00	3770091.69
	(11101505)					
	468355.00	3770091.69	240.23916	(09082120)	468380.00	3770091.69
	(11070222)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL10 ***
 INCLUDING SOURCE(S): RAIL10 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
547.11275	468330.00	3769866.69	695.66975	(10110319)	468355.00	3769866.69
368.83523	468380.00	3769866.69	446.60585	(11033019)	468405.00	3769866.69
770.03871	468430.00	3769866.69	310.72293	(11033019)	468330.00	3769891.69
440.09129	468355.00	3769891.69	555.93441	(12091207)	468380.00	3769891.69
310.17887	468405.00	3769891.69	364.22159	(08080522)	468430.00	3769891.69
543.77863	468330.00	3769916.69	696.31706	(09070706)	468355.00	3769916.69
369.34739	468380.00	3769916.69	440.47920	(08071224)	468405.00	3769916.69
628.93982	468430.00	3769916.69	313.82375	(08071224)	468330.00	3769941.69
412.20163	468355.00	3769941.69	501.32960	(10110218)	468380.00	3769941.69
305.11941	468405.00	3769941.69	351.32573	(10102318)	468430.00	3769941.69
458.34633	468330.00	3769966.69	556.98380	(10071101)	468355.00	3769966.69
335.40615	468380.00	3769966.69	392.89937	(10011018)	468405.00	3769966.69
485.75224	468430.00	3769966.69	289.63904	(09061405)	468330.00	3769991.69
360.73761	468355.00	3769991.69	415.90295	(12082602)	468380.00	3769991.69
372.77350	468330.00	3770016.69	429.79315	(09111019)	468355.00	3770016.69
371.07511	468380.00	3770016.69	327.32882	(08062701)	468330.00	3770041.69
298.01384	468355.00	3770041.69	334.96960	(08112519)	468380.00	3770041.69
299.64282	468330.00	3770066.69	325.81293	(08093020)	468355.00	3770066.69
284.24712	468380.00	3770066.69	271.69682	(12112919)	468330.00	3770091.69
250.40226	468355.00	3770091.69	264.37284	(08093020)	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL11 ***
 INCLUDING SOURCE(S): RAIL11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
502.26727	468330.00	3769866.69	617.99952	(09022019)	468355.00	3769866.69
342.90960	(12081224)					
663.78695	468380.00	3769866.69	404.48691	(09080723)	468405.00	3769866.69
432.36537	(10110319)					
305.31327	468430.00	3769866.69	295.87110	(10110319)	468330.00	3769891.69
540.90836	(10110319)					
357.46755	468355.00	3769891.69	524.86403	(11033019)	468380.00	3769891.69
425.24033	(11033019)					
269.87306	468405.00	3769891.69	359.58462	(11033019)	468430.00	3769891.69
	(08103118)					
	468330.00	3769916.69	745.93493	(12091207)	468355.00	3769916.69
	(12091207)					
	468380.00	3769916.69	427.53152	(08080522)	468405.00	3769916.69
	(08080522)					
	468430.00	3769916.69	304.97518	(08080522)	468330.00	3769941.69
	(09070706)					
	468355.00	3769941.69	531.43782	(12071224)	468380.00	3769941.69
	(08071224)					
	468405.00	3769941.69	362.45359	(08071224)	468430.00	3769941.69
	(08071224)					
	468330.00	3769966.69	613.28203	(10011018)	468355.00	3769966.69
	(10110218)					
	468380.00	3769966.69	404.40933	(09052524)	468405.00	3769966.69
	(10102318)					
	468430.00	3769966.69	300.37314	(12071224)	468330.00	3769991.69
	(10071101)					
	468355.00	3769991.69	449.27232	(11082721)	468380.00	3769991.69
	(10011018)					
	468330.00	3770016.69	482.06349	(09093003)	468355.00	3770016.69
	(12082602)					
	468380.00	3770016.69	354.60664	(12082501)	468330.00	3770041.69
	(08112519)					
	468355.00	3770041.69	370.31737	(09093003)	468380.00	3770041.69
	(08062701)					
	468330.00	3770066.69	366.97090	(12081822)	468355.00	3770066.69
	(08112519)					
	468380.00	3770066.69	296.58635	(09093003)	468330.00	3770091.69
	(08093020)					
	468355.00	3770091.69	297.51153	(09111019)	468380.00	3770091.69
	(12112919)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL12 ***
 INCLUDING SOURCE(S): RAIL12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
450.37461	468330.00	3769866.69	541.54636	(12092802)	468355.00	3769866.69
330.16367	(11101120)					
608.04091	468380.00	3769866.69	380.43714	(09022019)	468405.00	3769866.69
400.04030	(09022019)					
295.80977	468430.00	3769866.69	283.03266	(12081224)	468330.00	3769891.69
518.03040	(12053006)					
359.58462	468355.00	3769891.69	493.19119	(12081224)	468380.00	3769891.69
745.93493	(09080723)					
427.53152	468405.00	3769891.69	340.82345	(10110319)	468430.00	3769891.69
304.97518	(10110319)					
613.28203	468330.00	3769916.69	657.54425	(10110319)	468355.00	3769916.69
487.06988	(11033019)					
372.50848	468380.00	3769916.69	428.88334	(11033019)	468405.00	3769916.69
368.49027	(11033019)					
298.64450	468430.00	3769916.69	305.31327	(08103118)	468330.00	3769941.69
	(12091207)					
	468355.00	3769941.69	540.90836	(12091207)	468380.00	3769941.69
	(08080522)					
	468405.00	3769941.69	357.46755	(08080522)	468430.00	3769941.69
	(08080522)					
	468330.00	3769966.69	678.61534	(09070706)	468355.00	3769966.69
	(12071224)					
	468380.00	3769966.69	431.56286	(08071224)	468405.00	3769966.69
	(08071224)					
	468430.00	3769966.69	308.44802	(08071224)	468330.00	3769991.69
	(10011018)					
	468355.00	3769991.69	490.34907	(10110218)	468380.00	3769991.69
	(09052524)					
	468330.00	3770016.69	552.50767	(10071101)	468355.00	3770016.69
	(11082721)					
	468380.00	3770016.69	385.32231	(10011018)	468330.00	3770041.69
	(09093003)					
	468355.00	3770041.69	415.90463	(12082602)	468380.00	3770041.69
	(12082501)					
	468330.00	3770066.69	426.98092	(08112519)	468355.00	3770066.69
	(09093003)					
	468380.00	3770066.69	327.33546	(08062701)	468330.00	3770091.69
	(12081822)					
	468355.00	3770091.69	332.19030	(08112519)	468380.00	3770091.69
	(09093003)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL13 ***
 INCLUDING SOURCE(S): RAIL13 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
411.87030	468330.00	3769866.69	483.17834	(12022207)	468355.00	3769866.69
297.56613	(09022203)					
536.25659	468380.00	3769866.69	351.14656	(11101120)	468405.00	3769866.69
376.31761	(10102820)					
282.97550	468430.00	3769866.69	264.11259	(12030318)	468330.00	3769891.69
486.89293	(12053006)					
340.82345	468355.00	3769891.69	444.37014	(12053006)	468380.00	3769891.69
657.54425	(09022019)					
329.77101	468405.00	3769891.69	328.19370	(09022019)	468430.00	3769891.69
	(12081224)					
	468330.00	3769916.69	604.61534	(12053006)	468355.00	3769916.69
	(12081224)					
	468380.00	3769916.69	396.94236	(09080723)	468405.00	3769916.69
	(10110319)					
	468430.00	3769916.69	295.80977	(10110319)	468330.00	3769941.69
	(10110319)					
	468355.00	3769941.69	518.03040	(11033019)	468380.00	3769941.69
	(11033019)					
	468405.00	3769941.69	359.58462	(11033019)	468430.00	3769941.69
	(08103118)					
	468330.00	3769966.69	745.93493	(12091207)	468355.00	3769966.69
	(12091207)					
	468380.00	3769966.69	427.53152	(08080522)	468405.00	3769966.69
	(08080522)					
	468430.00	3769966.69	304.97518	(08080522)	468330.00	3769991.69
	(09070706)					
	468355.00	3769991.69	531.43782	(12071224)	468380.00	3769991.69
	(08071224)					
	468330.00	3770016.69	621.24851	(10011018)	468355.00	3770016.69
	(10110218)					
	468380.00	3770016.69	404.40933	(09052524)	468330.00	3770041.69
	(10071101)					
	468355.00	3770041.69	458.03930	(11082721)	468380.00	3770041.69
	(10011018)					
	468330.00	3770066.69	489.21496	(09093003)	468355.00	3770066.69
	(12082602)					
	468380.00	3770066.69	360.99029	(12082501)	468330.00	3770091.69
	(08112519)					
	468355.00	3770091.69	374.00445	(09093003)	468380.00	3770091.69
	(08062701)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL14 ***
 INCLUDING SOURCE(S): RAIL14 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
373.57521	468330.00	3769866.69	425.79976	(08103106)	468355.00	3769866.69
279.51344	(12022207)					
480.02502	468380.00	3769866.69	324.29089	(09022203)	468405.00	3769866.69
266.03175	(12092802)					
449.06992	468430.00	3769866.69	251.27822	(11101120)	468330.00	3769891.69
331.56199	(12022207)					
621.46611	468355.00	3769891.69	409.53731	(09022203)	468380.00	3769891.69
401.68540	(11101120)					
544.12658	468405.00	3769891.69	297.86384	(10102820)	468430.00	3769891.69
433.08891	(12030318)					
466.57542	468330.00	3769916.69	537.53764	(12053006)	468355.00	3769916.69
363.72109	(12053006)					
496.82004	468380.00	3769916.69	376.80910	(12030318)	468405.00	3769916.69
367.14641	(09022019)					
	468430.00	3769916.69	285.76406	(12081224)	468330.00	3769941.69
	(12053006)					
	468355.00	3769941.69	493.32953	(12081224)	468380.00	3769941.69
	(09080723)					
	468405.00	3769941.69	344.11800	(10110319)	468430.00	3769941.69
	(10110319)					
	468330.00	3769966.69	668.96902	(10110319)	468355.00	3769966.69
	(11033019)					
	468380.00	3769966.69	434.24873	(11033019)	468405.00	3769966.69
	(11033019)					
	468430.00	3769966.69	308.47271	(11033019)	468330.00	3769991.69
	(12091207)					
	468355.00	3769991.69	551.30280	(12091207)	468380.00	3769991.69
	(08080522)					
	468330.00	3770016.69	700.27103	(09070706)	468355.00	3770016.69
	(12071224)					
	468380.00	3770016.69	436.82840	(08071224)	468330.00	3770041.69
	(10011018)					
	468355.00	3770041.69	507.22234	(10110218)	468380.00	3770041.69
	(12090823)					
	468330.00	3770066.69	567.37420	(10071101)	468355.00	3770066.69
	(10102919)					
	468380.00	3770066.69	397.17507	(10011018)	468330.00	3770091.69
	(09093003)					
	468355.00	3770091.69	424.57955	(12082602)	468380.00	3770091.69
	(12082501)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL15 ***
 INCLUDING SOURCE(S): RAIL15 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
331.48731	468330.00	3769866.69	363.00254	(08112420)	468355.00	3769866.69
258.97826	(08103106)					
417.25479	468380.00	3769866.69	295.70618	(12022207)	468405.00	3769866.69
320.21651	(09022203)					
250.62205	468430.00	3769866.69	232.95127	(09022203)	468330.00	3769891.69
403.33181	(08103106)					
297.05159	468355.00	3769891.69	366.60123	(12022207)	468380.00	3769891.69
343.10560	(09022203)					
666.63910	468405.00	3769891.69	277.28999	(12092802)	468430.00	3769891.69
552.89993	(11101120)					
703.51967	468330.00	3769916.69	474.09607	(12022207)	468355.00	3769916.69
439.04279	(09022203)					
508.89752	468380.00	3769916.69	346.97263	(11101120)	468405.00	3769916.69
568.21325	(10102820)					
399.23090	468430.00	3769916.69	265.35358	(12030318)	468330.00	3769941.69
	(12053006)					
	468355.00	3769941.69	448.36938	(12053006)	468380.00	3769941.69
	(12030318)					
	468405.00	3769941.69	330.60466	(09022019)	468430.00	3769941.69
	(12081224)					
	468330.00	3769966.69	620.08478	(12053006)	468355.00	3769966.69
	(12081224)					
	468380.00	3769966.69	400.42256	(09080723)	468405.00	3769966.69
	(10110319)					
	468430.00	3769966.69	297.90262	(10110319)	468330.00	3769991.69
	(10110319)					
	468355.00	3769991.69	523.25212	(11033019)	468380.00	3769991.69
	(11033019)					
	468330.00	3770016.69	767.91158	(12091207)	468355.00	3770016.69
	(12091207)					
	468380.00	3770016.69	431.69036	(08080522)	468330.00	3770041.69
	(09070706)					
	468355.00	3770041.69	548.48624	(12071224)	468380.00	3770041.69
	(08071224)					
	468330.00	3770066.69	639.55001	(10011018)	468355.00	3770066.69
	(10110218)					
	468380.00	3770066.69	415.50497	(12090823)	468330.00	3770091.69
	(10071101)					
	468355.00	3770091.69	467.07842	(10102919)	468380.00	3770091.69
	(10011018)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL16 ***
 INCLUDING SOURCE(S): RAIL16 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
293.75259	468330.00	3769866.69	316.71156	(10082624)	468355.00	3769866.69
241.75567	(08112420)					
357.04569	468380.00	3769866.69	266.24896	(08103106)	468405.00	3769866.69
292.74053	(12022207)					
232.74125	468430.00	3769866.69	213.27719	(09022203)	468330.00	3769891.69
362.08687	(08112420)					
277.06800	468355.00	3769891.69	326.35645	(08103106)	468380.00	3769891.69
473.60327	(12022207)					
346.65790	468405.00	3769891.69	257.43618	(09022203)	468430.00	3769891.69
527.24614	(09022203)					
772.82058	468330.00	3769916.69	413.31480	(08103106)	468355.00	3769916.69
434.83077	(12022207)					
642.29400	468380.00	3769916.69	317.71125	(09022203)	468405.00	3769916.69
418.64400	(12092802)					
	468430.00	3769916.69	250.43452	(11101120)	468330.00	3769941.69
	(12022207)					
	468355.00	3769941.69	402.94031	(09022203)	468380.00	3769941.69
	(11101120)					
	468405.00	3769941.69	296.80210	(10102820)	468430.00	3769941.69
	(12030318)					
	468330.00	3769966.69	536.19015	(12053006)	468355.00	3769966.69
	(12053006)					
	468380.00	3769966.69	375.29176	(12030318)	468405.00	3769966.69
	(09022019)					
	468430.00	3769966.69	284.77882	(12081224)	468330.00	3769991.69
	(12053006)					
	468355.00	3769991.69	491.18239	(12081224)	468380.00	3769991.69
	(09080723)					
	468330.00	3770016.69	674.37884	(10110319)	468355.00	3770016.69
	(11033019)					
	468380.00	3770016.69	432.40416	(11033019)	468330.00	3770041.69
	(12091207)					
	468355.00	3770041.69	555.87888	(12091207)	468380.00	3770041.69
	(08080522)					
	468330.00	3770066.69	705.06115	(09070706)	468355.00	3770066.69
	(12071224)					
	468380.00	3770066.69	443.57547	(08071224)	468330.00	3770091.69
	(10011018)					
	468355.00	3770091.69	510.73088	(10110218)	468380.00	3770091.69
	(12090823)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL17 ***
 INCLUDING SOURCE(S): RAIL17 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
257.32703	468330.00	3769866.69	275.95887	(12092302)	468355.00	3769866.69
218.15040	(10082624)					
310.14862	468380.00	3769866.69	239.64506	(08112420)	468405.00	3769866.69
262.31057	(08103106)					
212.06949	468430.00	3769866.69	202.45343	(12022207)	468330.00	3769891.69
320.59811	(10082624)					
294.81506	468355.00	3769891.69	287.89840	(08112420)	468380.00	3769891.69
533.62012	(08103106)					
491.30751	468405.00	3769891.69	239.15604	(12022207)	468430.00	3769891.69
703.26158	(09022203)					
443.80545	468330.00	3769916.69	351.62118	(08112420)	468355.00	3769916.69
770.52054	(08103106)					
555.33588	468380.00	3769916.69	288.89192	(12022207)	468405.00	3769916.69
432.51187	(09022203)					
528.66049	468430.00	3769916.69	231.39577	(09022203)	468330.00	3769941.69
469.73289	(08103106)					
396.98728	468355.00	3769941.69	359.42075	(12022207)	468380.00	3769941.69
549.40718	(09022203)					
436.15135	468405.00	3769941.69	275.29644	(12092802)	468430.00	3769941.69
770.52054	(11101120)					
528.66049	468330.00	3769966.69	469.73289	(12022207)	468355.00	3769966.69
770.52054	(09022203)					
528.66049	468380.00	3769966.69	344.16158	(11101120)	468405.00	3769966.69
770.52054	(10102820)					
528.66049	468430.00	3769966.69	263.47954	(12030318)	468330.00	3769991.69
528.66049	(12053006)					
528.66049	468355.00	3769991.69	446.39911	(12053006)	468380.00	3769991.69
528.66049	(12030318)					
528.66049	468330.00	3770016.69	621.14804	(12053006)	468355.00	3770016.69
528.66049	(12081224)					
528.66049	468380.00	3770016.69	396.98728	(09080723)	468330.00	3770041.69
528.66049	(10110319)					
528.66049	468355.00	3770041.69	528.66049	(11033019)	468380.00	3770041.69
528.66049	(11033019)					
528.66049	468330.00	3770066.69	770.52054	(12091207)	468355.00	3770066.69
528.66049	(12091207)					
528.66049	468380.00	3770066.69	436.15135	(08080522)	468330.00	3770091.69
528.66049	(09070706)					
528.66049	468355.00	3770091.69	549.40718	(12071224)	468380.00	3770091.69
528.66049	(08071224)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL18 ***
 INCLUDING SOURCE(S): RAIL18 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
226.58847	468330.00	3769866.69	242.75522	(10110206)	468355.00	3769866.69
199.76640	(10082624)					
269.57371	468380.00	3769866.69	211.37673	(08112420)	468405.00	3769866.69
235.40902	(08103106)					
200.64962	468430.00	3769866.69	182.80854	(08103106)	468330.00	3769891.69
281.94125	(12092302)					
272.38825	468355.00	3769891.69	251.59712	(10082624)	468380.00	3769891.69
463.62359	(08112420)					
340.12430	468405.00	3769891.69	215.11862	(08103106)	468430.00	3769891.69
445.28631	(12022207)					
619.55147	468330.00	3769916.69	304.46257	(10082624)	468355.00	3769916.69
395.12118	(08112420)					
524.74798	468380.00	3769916.69	257.98561	(08103106)	468405.00	3769916.69
765.42878	(12022207)					
434.06598	468430.00	3769916.69	210.12405	(09022203)	468330.00	3769941.69
	(08112420)					
	468355.00	3769941.69	316.93204	(08103106)	468380.00	3769941.69
	(12022207)					
	468405.00	3769941.69	253.22837	(09022203)	468430.00	3769941.69
	(09022203)					
	468330.00	3769966.69	404.88911	(08103106)	468355.00	3769966.69
	(12022207)					
	468380.00	3769966.69	311.92535	(09022203)	468405.00	3769966.69
	(12092802)					
	468430.00	3769966.69	246.45806	(11101120)	468330.00	3769991.69
	(12022207)					
	468355.00	3769991.69	394.92373	(09022203)	468380.00	3769991.69
	(11101120)					
	468330.00	3770016.69	533.05247	(12053006)	468355.00	3770016.69
	(12053006)					
	468380.00	3770016.69	367.96666	(12030318)	468330.00	3770041.69
	(12053006)					
	468355.00	3770041.69	489.93952	(12081224)	468380.00	3770041.69
	(09080723)					
	468330.00	3770066.69	668.60671	(10110319)	468355.00	3770066.69
	(11033019)					
	468380.00	3770066.69	431.54614	(11033019)	468330.00	3770091.69
	(12091207)					
	468355.00	3770091.69	552.50246	(12091207)	468380.00	3770091.69
	(08080522)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL19 ***
 INCLUDING SOURCE(S): RAIL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
205.52753	468330.00	3769866.69	216.78850	(12100124)	468355.00	3769866.69
182.72938	(12092302)					
239.82486	468380.00	3769866.69	194.63722	(10082624)	468405.00	3769866.69
209.75083	(08112420)					
182.77951	468430.00	3769866.69	172.66217	(08103106)	468330.00	3769891.69
249.26283	(10110206)					
215.11862	468355.00	3769891.69	223.93905	(10082624)	468380.00	3769891.69
304.46257	(08112420)					
404.88911	468405.00	3769891.69	198.87318	(08103106)	468430.00	3769891.69
311.92535	(08103106)					
397.96374	468330.00	3769916.69	267.77170	(12092302)	468355.00	3769916.69
536.11049	(10082624)					
671.91775	468380.00	3769916.69	234.02636	(08112420)	468405.00	3769916.69
435.23659	(08103106)					
	468430.00	3769916.69	200.64962	(12022207)	468330.00	3769941.69
	(10082624)					
	468355.00	3769941.69	281.94125	(08112420)	468380.00	3769941.69
	(08103106)					
	468405.00	3769941.69	236.82279	(12022207)	468430.00	3769941.69
	(09022203)					
	468330.00	3769966.69	347.39149	(08112420)	468355.00	3769966.69
	(08103106)					
	468380.00	3769966.69	285.75255	(12022207)	468405.00	3769966.69
	(09022203)					
	468430.00	3769966.69	229.16854	(09022203)	468330.00	3769991.69
	(08103106)					
	468355.00	3769991.69	355.12602	(12022207)	468380.00	3769991.69
	(09022203)					
	468330.00	3770016.69	468.90392	(12022207)	468355.00	3770016.69
	(09022203)					
	468380.00	3770016.69	340.12430	(11101120)	468330.00	3770041.69
	(12053006)					
	468355.00	3770041.69	447.60834	(12053006)	468380.00	3770041.69
	(12030318)					
	468330.00	3770066.69	621.25411	(12053006)	468355.00	3770066.69
	(12081224)					
	468380.00	3770066.69	399.26707	(09080723)	468330.00	3770091.69
	(10110319)					
	468355.00	3770091.69	527.10574	(11033019)	468380.00	3770091.69
	(11033019)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL20 ***
 INCLUDING SOURCE(S): RAIL20 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
186.56256	468330.00	3769866.69	195.81121	(08062201)	468355.00	3769866.69
166.51226	(10110206)					
213.84724	468380.00	3769866.69	176.00894	(10110123)	468405.00	3769866.69
193.25735	(10082624)					
172.63623	468430.00	3769866.69	159.47845	(08112420)	468330.00	3769891.69
221.99534	(12100124)					
198.87318	468355.00	3769891.69	203.30593	(12092302)	468380.00	3769891.69
267.77170	(10082624)					
234.02636	468405.00	3769891.69	181.96213	(08112420)	468430.00	3769891.69
285.75255	(08103106)					
342.62275	468330.00	3769916.69	238.33440	(10110206)	468355.00	3769916.69
402.56611	(10082624)					
473.48038	468380.00	3769916.69	208.59194	(08112420)	468405.00	3769916.69
537.37979	(08103106)					
623.15508	468430.00	3769916.69	182.77951	(08103106)	468330.00	3769941.69
698.00000	(12092302)					
773.00000	468355.00	3769941.69	249.26283	(10082624)	468380.00	3769941.69
848.00000	(08112420)					
923.00000	468405.00	3769941.69	215.11862	(08103106)	468430.00	3769941.69
1000.00000	(12022207)					
1075.00000	468330.00	3769966.69	304.46257	(10082624)	468355.00	3769966.69
1150.00000	(08112420)					
1225.00000	468380.00	3769966.69	257.98561	(08103106)	468405.00	3769966.69
1300.00000	(12022207)					
1375.00000	468430.00	3769966.69	210.12405	(09022203)	468330.00	3769991.69
1450.00000	(08112420)					
1525.00000	468355.00	3769991.69	316.93204	(08103106)	468380.00	3769991.69
1600.00000	(12022207)					
1675.00000	468330.00	3770016.69	409.37610	(08103106)	468355.00	3770016.69
1750.00000	(12022207)					
1825.00000	468380.00	3770016.69	311.92535	(09022203)	468330.00	3770041.69
1900.00000	(12022207)					
1975.00000	468355.00	3770041.69	401.96677	(09022203)	468380.00	3770041.69
2050.00000	(11101120)					
2125.00000	468330.00	3770066.69	537.37979	(12053006)	468355.00	3770066.69
2200.00000	(12053006)					
2275.00000	468380.00	3770066.69	374.58317	(12030318)	468330.00	3770091.69
2350.00000	(12053006)					
2425.00000	468355.00	3770091.69	495.25888	(12081224)	468380.00	3770091.69
2500.00000	(09080723)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL21 ***
 INCLUDING SOURCE(S): RAIL21 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
169.13355	468330.00	3769866.69	178.25914	(08121018)	468355.00	3769866.69
153.15418	(12100124)					
193.22884	468380.00	3769866.69	160.89804	(12092302)	468405.00	3769866.69
174.34050	(10082624)					
158.88974	468430.00	3769866.69	143.59453	(12092804)	468330.00	3769891.69
200.56983	(08062201)					
237.14070	468355.00	3769891.69	184.02387	(10110206)	468380.00	3769891.69
302.29758	(10110123)					
257.82334	468405.00	3769891.69	165.66914	(10082624)	468430.00	3769891.69
318.61394	(08112420)					
411.59614	468330.00	3769916.69	211.68894	(10010908)	468355.00	3769916.69
539.27899	(12092302)					
376.86972	468380.00	3769916.69	191.45841	(10082624)	468405.00	3769916.69
	(08112420)					
	468430.00	3769916.69	171.92323	(08103106)	468330.00	3769941.69
	(10110206)					
	468355.00	3769941.69	221.47964	(10110123)	468380.00	3769941.69
	(08112420)					
	468405.00	3769941.69	197.72001	(08103106)	468430.00	3769941.69
	(08103106)					
	468330.00	3769966.69	266.25396	(12092302)	468355.00	3769966.69
	(10082624)					
	468380.00	3769966.69	233.49533	(08112420)	468405.00	3769966.69
	(08103106)					
	468430.00	3769966.69	199.99673	(12022207)	468330.00	3769991.69
	(10082624)					
	468355.00	3769991.69	280.55755	(08112420)	468380.00	3769991.69
	(08103106)					
	468330.00	3770016.69	347.87199	(08112420)	468355.00	3770016.69
	(08103106)					
	468380.00	3770016.69	284.84623	(12022207)	468330.00	3770041.69
	(08103106)					
	468355.00	3770041.69	360.21717	(12022207)	468380.00	3770041.69
	(09022203)					
	468330.00	3770066.69	474.51769	(12022207)	468355.00	3770066.69
	(09022203)					
	468380.00	3770066.69	345.01752	(11101120)	468330.00	3770091.69
	(09022203)					
	468355.00	3770091.69	454.33494	(12053006)	468380.00	3770091.69
	(12030318)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL22 ***
 INCLUDING SOURCE(S): RAIL22 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
155.37520	468330.00	3769866.69	162.64821	(08121018)	468355.00	3769866.69
140.82895	468380.00	3769866.69	148.14534	(10110206)	468405.00	3769866.69
175.86449	468430.00	3769866.69	135.61153	(10082624)	468330.00	3769891.69
159.35847	468355.00	3769891.69	166.44970	(12100124)	468380.00	3769891.69
143.13536	468405.00	3769891.69	152.09011	(10082624)	468430.00	3769891.69
181.95148	468330.00	3769916.69	191.45755	(08062201)	468355.00	3769916.69
165.10470	468380.00	3769916.69	172.88766	(10110123)	468405.00	3769916.69
210.84460	468430.00	3769916.69	158.36150	(08112420)	468330.00	3769941.69
190.74104	468355.00	3769941.69	199.79490	(12092302)	468380.00	3769941.69
171.31858	468405.00	3769941.69	180.26376	(08112420)	468430.00	3769941.69
220.57173	468330.00	3769966.69	236.13435	(10110206)	468355.00	3769966.69
196.95494	468380.00	3769966.69	205.97091	(08112420)	468405.00	3769966.69
265.05085	468430.00	3769966.69	182.28308	(08103106)	468330.00	3769991.69
232.50503	468355.00	3769991.69	247.63343	(10082624)	468380.00	3769991.69
281.12672	468330.00	3770016.69	303.76451	(10082624)	468355.00	3770016.69
349.06015	468380.00	3770016.69	256.67162	(08103106)	468330.00	3770041.69
285.42755	468355.00	3770041.69	319.92101	(08103106)	468380.00	3770041.69
360.38139	468330.00	3770066.69	410.89966	(08103106)	468355.00	3770066.69
473.91731	468380.00	3770066.69	314.32262	(09022203)	468330.00	3770091.69
345.87011	468355.00	3770091.69	403.25730	(09022203)	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL23 ***
 INCLUDING SOURCE(S): RAIL23 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
142.81262	468330.00	3769866.69	147.50378	(08121018)	468355.00	3769866.69
130.40071	(08062201)					
160.93724	468380.00	3769866.69	135.86787	(12100124)	468405.00	3769866.69
147.09894	(12092302)					
135.45443	468430.00	3769866.69	124.45912	(10082624)	468330.00	3769891.69
164.75996	(08121018)					
151.91889	468355.00	3769891.69	153.42518	(12100124)	468380.00	3769891.69
191.20846	(10110206)					
172.67571	468405.00	3769891.69	140.18090	(12092302)	468430.00	3769891.69
205.68241	(10082624)					
248.81311	468330.00	3769916.69	174.73253	(08121018)	468355.00	3769916.69
305.70128	(12100124)					
257.92397	468380.00	3769916.69	158.44250	(12092302)	468405.00	3769916.69
316.09260	(10082624)					
	468430.00	3769916.69	142.98174	(12092804)	468330.00	3769941.69
	(08062201)					
	468355.00	3769941.69	181.72069	(10110206)	468380.00	3769941.69
	(10110123)					
	468405.00	3769941.69	164.90803	(10082624)	468430.00	3769941.69
	(08112420)					
	468330.00	3769966.69	210.55125	(10010908)	468355.00	3769966.69
	(12092302)					
	468380.00	3769966.69	190.49160	(10082624)	468405.00	3769966.69
	(08112420)					
	468430.00	3769966.69	171.10804	(08103106)	468330.00	3769991.69
	(10110206)					
	468355.00	3769991.69	220.25684	(10110123)	468380.00	3769991.69
	(08112420)					
	468330.00	3770016.69	267.04343	(12092302)	468355.00	3770016.69
	(10082624)					
	468380.00	3770016.69	232.16198	(08112420)	468330.00	3770041.69
	(10082624)					
	468355.00	3770041.69	283.08131	(08112420)	468380.00	3770041.69
	(08103106)					
	468330.00	3770066.69	349.69850	(08112420)	468355.00	3770066.69
	(08103106)					
	468380.00	3770066.69	287.54329	(12022207)	468330.00	3770091.69
	(08103106)					
	468355.00	3770091.69	361.12324	(12022207)	468380.00	3770091.69
	(09022203)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL24 ***
 INCLUDING SOURCE(S): RAIL24 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

X-COORD (M) CONC	Y-COORD (M) (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
132.32950	468330.00 (08121018)	133.30959	(09092622)	468355.00	3769866.69
121.41508	468380.00 (10110206)	127.18310	(12100124)	468405.00	3769866.69
145.63349	468430.00 (08121018)	116.68833	(12092302)	468330.00	3769891.69
134.51075	468355.00 (10110206)	141.05546	(08062201)	468380.00	3769891.69
124.00052	468405.00 (10082624)	129.48800	(12092302)	468430.00	3769891.69
151.40092	468330.00 (12100124)	159.47642	(08121018)	468355.00	3769916.69
139.64000	468380.00 (12092302)	145.87793	(10110206)	468405.00	3769916.69
173.94823	468430.00 (08121018)	134.94588	(10082624)	468330.00	3769941.69
157.77533	468355.00 (12092302)	163.90757	(12100124)	468380.00	3769941.69
142.42277	468405.00 (12092804)	151.29647	(10082624)	468430.00	3769941.69
180.88417	468330.00 (10110206)	190.30548	(08062201)	468355.00	3769966.69
164.19399	468380.00 (10082624)	171.90675	(10110123)	468405.00	3769966.69
209.49007	468430.00 (10010908)	157.50847	(08112420)	468330.00	3769991.69
189.58828	468355.00 (10082624)	198.55160	(12092302)	468380.00	3769991.69
220.41422	468330.00 (10110123)	236.52762	(10110206)	468355.00	3770016.69
267.51875	468380.00 (12092302)	204.64012	(08112420)	468330.00	3770041.69
232.33341	468355.00 (08112420)	249.43011	(10082624)	468380.00	3770041.69
282.84990	468330.00 (08112420)	304.85898	(10082624)	468355.00	3770066.69
348.82159	468380.00 (08112420)	258.68101	(08103106)	468330.00	3770091.69
287.83977	468355.00 (12022207)	320.26739	(08103106)	468380.00	3770091.69

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: RAIL25 ***
 INCLUDING SOURCE(S): RAIL25 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
122.29755	468330.00	3769866.69	122.97223	(08100202)	468355.00	3769866.69
112.17356	(08121018)					
131.16130	468380.00	3769866.69	116.91616	(12100124)	468405.00	3769866.69
125.12005	(10110206)					
115.80764	468430.00	3769866.69	108.10921	(12092302)	468330.00	3769891.69
138.95156	(09092622)					
128.44681	468355.00	3769891.69	130.18356	(08121018)	468380.00	3769891.69
144.60511	(12100124)					
133.83123	468405.00	3769891.69	120.10005	(10110206)	468430.00	3769891.69
162.19747	(12092302)					
203.56901	468330.00	3769916.69	143.69796	(08121018)	468355.00	3769916.69
247.63343	(08062201)					
301.98094	468380.00	3769916.69	132.84784	(10110206)	468405.00	3769916.69
257.22113	(12092302)					
	468430.00	3769916.69	123.02652	(10082624)	468330.00	3769941.69
	(08121018)					
	468355.00	3769941.69	149.78408	(12100124)	468380.00	3769941.69
	(10110206)					
	468405.00	3769941.69	138.45590	(12092302)	468430.00	3769941.69
	(10082624)					
	468330.00	3769966.69	172.24280	(08121018)	468355.00	3769966.69
	(10010908)					
	468380.00	3769966.69	156.32160	(12092302)	468405.00	3769966.69
	(10082624)					
	468430.00	3769966.69	141.20000	(12092804)	468330.00	3769991.69
	(08062201)					
	468355.00	3769991.69	179.07213	(10110206)	468380.00	3769991.69
	(10110123)					
	468330.00	3770016.69	208.87008	(10010908)	468355.00	3770016.69
	(12092302)					
	468380.00	3770016.69	187.63606	(10082624)	468330.00	3770041.69
	(10110206)					
	468355.00	3770041.69	219.58951	(10110123)	468380.00	3770041.69
	(08112420)					
	468330.00	3770066.69	265.05085	(12092302)	468355.00	3770066.69
	(10082624)					
	468380.00	3770066.69	231.52095	(08112420)	468330.00	3770091.69
	(10082624)					
	468355.00	3770091.69	280.21739	(08112420)	468380.00	3770091.69
	(08103106)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: QUARRY ***
 INCLUDING SOURCE(S): QUARRY ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

**

CONC	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
563.62470	468330.00	3769866.69	523.15583	(11040607)	468355.00	3769866.69
	(08071805)					
562.34996	468380.00	3769866.69	542.83044	(11091504)	468405.00	3769866.69
	(10073105)					
488.09910	468430.00	3769866.69	554.07829	(11080904)	468330.00	3769891.69
	(08060906)					
541.51448	468355.00	3769891.69	549.90876	(10062806)	468380.00	3769891.69
	(11091504)					
531.53054	468405.00	3769891.69	535.57061	(10073105)	468430.00	3769891.69
	(11080904)					
530.81395	468330.00	3769916.69	475.14989	(08060906)	468355.00	3769916.69
	(10062806)					
493.39346	468380.00	3769916.69	526.10961	(11091504)	468405.00	3769916.69
	(10073105)					
460.60156	468430.00	3769916.69	517.25137	(09092804)	468330.00	3769941.69
	(08060906)					
499.80712	468355.00	3769941.69	503.89516	(10062806)	468380.00	3769941.69
	(11091504)					
490.75322	468405.00	3769941.69	478.09418	(08112708)	468430.00	3769941.69
	(09092804)					
472.56673	468330.00	3769966.69	452.91632	(11020708)	468355.00	3769966.69
	(10062806)					
455.93114	468380.00	3769966.69	484.86761	(08071805)	468405.00	3769966.69
	(08112708)					
449.33900	468430.00	3769966.69	479.29151	(10073105)	468330.00	3769991.69
	(11020708)					
466.11820	468355.00	3769991.69	438.54519	(10062806)	468380.00	3769991.69
	(08071805)					
402.68292	468330.00	3770016.69	442.46906	(11020708)	468355.00	3770016.69
	(10062806)					
433.66614	468380.00	3770016.69	450.40889	(10062806)	468330.00	3770041.69
	(11020708)					
439.27414	468355.00	3770041.69	378.33709	(11040607)	468380.00	3770041.69
	(10062806)					
356.76522	468330.00	3770066.69	423.38141	(11020708)	468355.00	3770066.69
	(08060906)					
411.59306	468380.00	3770066.69	423.32055	(10062806)	468330.00	3770091.69
	(11020708)					
403.58010	468355.00	3770091.69	351.71468	(08060906)	468380.00	3770091.69
	(10062806)					

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYEB1 0.00)	DC	1ST HIGHEST VALUE IS	6.18984 AT (468330.00, 3770091.69, 311.50, 311.50,	
0.00)	DC	2ND HIGHEST VALUE IS	6.10760 AT (468330.00, 3770066.69, 311.32, 311.32,	
0.00)	DC	3RD HIGHEST VALUE IS	5.98322 AT (468330.00, 3770041.69, 311.16, 377.00,	
0.00)	DC	4TH HIGHEST VALUE IS	5.81228 AT (468330.00, 3770016.69, 310.78, 377.00,	
0.00)	DC	5TH HIGHEST VALUE IS	5.79345 AT (468355.00, 3770091.69, 311.17, 311.17,	
0.00)	DC	6TH HIGHEST VALUE IS	5.70606 AT (468355.00, 3770066.69, 311.00, 377.00,	
0.00)	DC	7TH HIGHEST VALUE IS	5.60350 AT (468330.00, 3769991.69, 310.32, 377.00,	
0.00)	DC	8TH HIGHEST VALUE IS	5.57961 AT (468355.00, 3770041.69, 310.75, 377.00,	
0.00)	DC	9TH HIGHEST VALUE IS	5.43828 AT (468380.00, 3770091.69, 311.11, 311.11,	
0.00)	DC	10TH HIGHEST VALUE IS	5.41437 AT (468355.00, 3770016.69, 310.33, 377.00,	
FWYEB2 0.00)	DC	1ST HIGHEST VALUE IS	6.62597 AT (468330.00, 3770091.69, 311.50, 311.50,	
0.00)	DC	2ND HIGHEST VALUE IS	6.55421 AT (468330.00, 3770066.69, 311.32, 311.32,	
0.00)	DC	3RD HIGHEST VALUE IS	6.43343 AT (468330.00, 3770041.69, 311.16, 377.00,	
0.00)	DC	4TH HIGHEST VALUE IS	6.25833 AT (468330.00, 3770016.69, 310.78, 377.00,	
0.00)	DC	5TH HIGHEST VALUE IS	6.19169 AT (468355.00, 3770091.69, 311.17, 311.17,	
0.00)	DC	6TH HIGHEST VALUE IS	6.11148 AT (468355.00, 3770066.69, 311.00, 377.00,	
0.00)	DC	7TH HIGHEST VALUE IS	6.03817 AT (468330.00, 3769991.69, 310.32, 377.00,	
0.00)	DC	8TH HIGHEST VALUE IS	5.98611 AT (468355.00, 3770041.69, 310.75, 377.00,	
0.00)	DC	9TH HIGHEST VALUE IS	5.81550 AT (468355.00, 3770016.69, 310.33, 377.00,	
0.00)	DC	10TH HIGHEST VALUE IS	5.80289 AT (468380.00, 3770091.69, 311.11, 311.11,	
FWYEB3 0.00)	DC	1ST HIGHEST VALUE IS	7.10190 AT (468330.00, 3770091.69, 311.50, 311.50,	

0.00)	DC	2ND HIGHEST VALUE IS	7.04522 AT (	468330.00,	3770066.69,	311.32,	311.32,
0.00)	DC	3RD HIGHEST VALUE IS	6.93154 AT (	468330.00,	3770041.69,	311.16,	377.00,
0.00)	DC	4TH HIGHEST VALUE IS	6.75430 AT (	468330.00,	3770016.69,	310.78,	377.00,
0.00)	DC	5TH HIGHEST VALUE IS	6.62595 AT (	468355.00,	3770091.69,	311.17,	311.17,
0.00)	DC	6TH HIGHEST VALUE IS	6.55648 AT (	468355.00,	3770066.69,	311.00,	377.00,
0.00)	DC	7TH HIGHEST VALUE IS	6.52327 AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC	8TH HIGHEST VALUE IS	6.43474 AT (	468355.00,	3770041.69,	310.75,	377.00,
0.00)	DC	9TH HIGHEST VALUE IS	6.26516 AT (	468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	6.26011 AT (	468355.00,	3770016.69,	310.33,	377.00,
FWYEB4	DC	1ST HIGHEST VALUE IS	7.61503 AT (	468330.00,	3770091.69,	311.50,	311.50,
0.00)	DC	2ND HIGHEST VALUE IS	7.57931 AT (	468330.00,	3770066.69,	311.32,	311.32,
0.00)	DC	3RD HIGHEST VALUE IS	7.47737 AT (	468330.00,	3770041.69,	311.16,	377.00,
0.00)	DC	4TH HIGHEST VALUE IS	7.30087 AT (	468330.00,	3770016.69,	310.78,	377.00,
0.00)	DC	5TH HIGHEST VALUE IS	7.09396 AT (	468355.00,	3770091.69,	311.17,	311.17,
0.00)	DC	6TH HIGHEST VALUE IS	7.06006 AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC	7TH HIGHEST VALUE IS	7.03978 AT (	468355.00,	3770066.69,	311.00,	377.00,
0.00)	DC	8TH HIGHEST VALUE IS	6.92507 AT (	468355.00,	3770041.69,	310.75,	377.00,
0.00)	DC	9TH HIGHEST VALUE IS	6.78470 AT (468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	6.74839 AT (468355.00,	3770016.69,	310.33,	377.00,

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYEB5 0.00)	DC	1ST HIGHEST VALUE IS	8.18835 AT (468330.00, 3770091.69, 311.50, 311.50,	
0.00)	DC	2ND HIGHEST VALUE IS	8.18172 AT (468330.00, 3770066.69, 311.32, 311.32,	
0.00)	DC	3RD HIGHEST VALUE IS	8.09802 AT (468330.00, 3770041.69, 311.16, 377.00,	
0.00)	DC	4TH HIGHEST VALUE IS	7.92677 AT (468330.00, 3770016.69, 310.78, 377.00,	
0.00)	DC	5TH HIGHEST VALUE IS	7.67824 AT (468330.00, 3769991.69, 310.32, 377.00,	
0.00)	DC	6TH HIGHEST VALUE IS	7.61706 AT (468355.00, 3770091.69, 311.17, 311.17,	
0.00)	DC	7TH HIGHEST VALUE IS	7.58443 AT (468355.00, 3770066.69, 311.00, 377.00,	
0.00)	DC	8TH HIGHEST VALUE IS	7.48163 AT (468355.00, 3770041.69, 310.75, 377.00,	
0.00)	DC	9TH HIGHEST VALUE IS	7.38512 AT (468330.00, 3769966.69, 310.32, 395.00,	
0.00)	DC	10TH HIGHEST VALUE IS	7.30607 AT (468355.00, 3770016.69, 310.33, 377.00,	
FWYEB6 0.00)	DC	1ST HIGHEST VALUE IS	8.84855 AT (468330.00, 3770066.69, 311.32, 311.32,	
0.00)	DC	2ND HIGHEST VALUE IS	8.81570 AT (468330.00, 3770091.69, 311.50, 311.50,	
0.00)	DC	3RD HIGHEST VALUE IS	8.79179 AT (468330.00, 3770041.69, 311.16, 377.00,	
0.00)	DC	4TH HIGHEST VALUE IS	8.63208 AT (468330.00, 3770016.69, 310.78, 377.00,	
0.00)	DC	5TH HIGHEST VALUE IS	8.37927 AT (468330.00, 3769991.69, 310.32, 377.00,	
0.00)	DC	6TH HIGHEST VALUE IS	8.18998 AT (468355.00, 3770091.69, 311.17, 311.17,	
0.00)	DC	7TH HIGHEST VALUE IS	8.18693 AT (468355.00, 3770066.69, 311.00, 377.00,	
0.00)	DC	8TH HIGHEST VALUE IS	8.10253 AT (468355.00, 3770041.69, 310.75, 377.00,	
0.00)	DC	9TH HIGHEST VALUE IS	8.06905 AT (468330.00, 3769966.69, 310.32, 395.00,	
0.00)	DC	10TH HIGHEST VALUE IS	7.93256 AT (468355.00, 3770016.69, 310.33, 377.00,	
FWYEB7 0.00)	DC	1ST HIGHEST VALUE IS	9.56837 AT (468330.00, 3770066.69, 311.32, 311.32,	

0.00)	DC	2ND HIGHEST VALUE IS	9.54974 AT (	468330.00,	3770041.69,	311.16,	377.00,
0.00)	DC	3RD HIGHEST VALUE IS	9.48335 AT (	468330.00,	3770091.69,	311.50,	311.50,
0.00)	DC	4TH HIGHEST VALUE IS	9.40986 AT (	468330.00,	3770016.69,	310.78,	377.00,
0.00)	DC	5TH HIGHEST VALUE IS	9.15778 AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC	6TH HIGHEST VALUE IS	8.83724 AT (	468355.00,	3770066.69,	311.00,	377.00,
0.00)	DC	7TH HIGHEST VALUE IS	8.83297 AT (	468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	8.80086 AT (	468355.00,	3770091.69,	311.17,	311.17,
0.00)	DC	9TH HIGHEST VALUE IS	8.77948 AT (	468355.00,	3770041.69,	310.75,	377.00,
0.00)	DC	10TH HIGHEST VALUE IS	8.62098 AT (	468355.00,	3770016.69,	310.33,	377.00,
FWYEB8	DC	1ST HIGHEST VALUE IS	10.38992 AT (	468330.00,	3770041.69,	311.16,	377.00,
0.00)	DC	2ND HIGHEST VALUE IS	10.35537 AT (	468330.00,	3770066.69,	311.32,	311.32,
0.00)	DC	3RD HIGHEST VALUE IS	10.28172 AT (	468330.00,	3770016.69,	310.78,	377.00,
0.00)	DC	4TH HIGHEST VALUE IS	10.20151 AT (	468330.00,	3770091.69,	311.50,	311.50,
0.00)	DC	5TH HIGHEST VALUE IS	10.03812 AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC	6TH HIGHEST VALUE IS	9.70271 AT (	468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	9.54891 AT (	468355.00,	3770066.69,	311.00,	377.00,
0.00)	DC	8TH HIGHEST VALUE IS	9.52901 AT (	468355.00,	3770041.69,	310.75,	377.00,
0.00)	DC	9TH HIGHEST VALUE IS	9.46017 AT (468355.00,	3770091.69,	311.17,	311.17,
0.00)	DC	10TH HIGHEST VALUE IS	9.39045 AT (468355.00,	3770016.69,	310.33,	377.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYEB9 0.00)	DC	1ST HIGHEST VALUE IS	11.35004 AT (468330.00, 3770041.69, 311.16, 377.00,	
0.00)	DC	2ND HIGHEST VALUE IS	11.29133 AT (468330.00, 3770016.69, 310.78, 377.00,	
0.00)	DC	3RD HIGHEST VALUE IS	11.24103 AT (468330.00, 3770066.69, 311.32, 311.32,	
0.00)	DC	4TH HIGHEST VALUE IS	11.06871 AT (468330.00, 3769991.69, 310.32, 377.00,	
0.00)	DC	5TH HIGHEST VALUE IS	10.99535 AT (468330.00, 3770091.69, 311.50, 311.50,	
0.00)	DC	6TH HIGHEST VALUE IS	10.72870 AT (468330.00, 3769966.69, 310.32, 395.00,	
0.00)	DC	7TH HIGHEST VALUE IS	10.38552 AT (468355.00, 3770041.69, 310.75, 377.00,	
0.00)	DC	8TH HIGHEST VALUE IS	10.35155 AT (468355.00, 3770066.69, 311.00, 377.00,	
0.00)	DC	9TH HIGHEST VALUE IS	10.27974 AT (468355.00, 3770016.69, 310.33, 377.00,	
0.00)	DC	10TH HIGHEST VALUE IS	10.25415 AT (468330.00, 3769941.69, 310.32, 395.00,	
FWYEB10 0.00)	DC	1ST HIGHEST VALUE IS	12.49182 AT (468330.00, 3770016.69, 310.78, 377.00,	
0.00)	DC	2ND HIGHEST VALUE IS	12.46628 AT (468330.00, 3770041.69, 311.16, 377.00,	
0.00)	DC	3RD HIGHEST VALUE IS	12.31843 AT (468330.00, 3769991.69, 310.32, 377.00,	
0.00)	DC	4TH HIGHEST VALUE IS	12.24559 AT (468330.00, 3770066.69, 311.32, 311.32,	
0.00)	DC	5TH HIGHEST VALUE IS	11.99123 AT (468330.00, 3769966.69, 310.32, 395.00,	
0.00)	DC	6TH HIGHEST VALUE IS	11.87037 AT (468330.00, 3770091.69, 311.50, 311.50,	
0.00)	DC	7TH HIGHEST VALUE IS	11.48992 AT (468330.00, 3769941.69, 310.32, 395.00,	
0.00)	DC	8TH HIGHEST VALUE IS	11.38532 AT (468355.00, 3770041.69, 310.75, 377.00,	
0.00)	DC	9TH HIGHEST VALUE IS	11.33843 AT (468355.00, 3770016.69, 310.33, 377.00,	
0.00)	DC	10TH HIGHEST VALUE IS	11.26839 AT (468355.00, 3770066.69, 311.00, 377.00,	
FWYEB11 0.00)	DC	1ST HIGHEST VALUE IS	13.89992 AT (468330.00, 3770016.69, 310.78, 377.00,	

0.00)	DC	2ND HIGHEST VALUE IS	13.80282 AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC	3RD HIGHEST VALUE IS	13.75586 AT (	468330.00,	3770041.69,	311.16,	377.00,
0.00)	DC	4TH HIGHEST VALUE IS	13.50119 AT (	468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	13.38716 AT (	468330.00,	3770066.69,	311.32,	311.32,
0.00)	DC	6TH HIGHEST VALUE IS	12.97338 AT (	468330.00,	3769941.69,	310.32,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	12.84566 AT (	468330.00,	3770091.69,	311.50,	311.50,
0.00)	DC	8TH HIGHEST VALUE IS	12.57820 AT (	468355.00,	3770016.69,	310.33,	377.00,
0.00)	DC	9TH HIGHEST VALUE IS	12.54153 AT (	468355.00,	3770041.69,	310.75,	377.00,
0.00)	DC	10TH HIGHEST VALUE IS	12.42677 AT (	468355.00,	3769991.69,	310.00,	394.00,
FWYEB12	DC	1ST HIGHEST VALUE IS	15.43219 AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC	2ND HIGHEST VALUE IS	15.41508 AT (	468330.00,	3770016.69,	310.78,	377.00,
0.00)	DC	3RD HIGHEST VALUE IS	15.18745 AT (	468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	15.10874 AT (	468330.00,	3770041.69,	311.16,	377.00,
0.00)	DC	5TH HIGHEST VALUE IS	14.65018 AT (	468330.00,	3769941.69,	310.32,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	14.54662 AT (	468330.00,	3770066.69,	311.32,	311.32,
0.00)	DC	7TH HIGHEST VALUE IS	13.91136 AT (	468355.00,	3770016.69,	310.33,	377.00,
0.00)	DC	8TH HIGHEST VALUE IS	13.85838 AT (	468330.00,	3769916.69,	310.32,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	13.83498 AT (468355.00,	3769991.69,	310.00,	394.00,
0.00)	DC	10TH HIGHEST VALUE IS	13.79824 AT (468330.00,	3770091.69,	311.50,	311.50,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYEB13	1ST HIGHEST VALUE IS		17.33433 AT (	468330.00, 3769991.69, 310.32, 377.00,
0.00) DC	2ND HIGHEST VALUE IS		17.19373 AT (	468330.00, 3769966.69, 310.32, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		17.13984 AT (	468330.00, 3770016.69, 310.78, 377.00,
0.00) DC	4TH HIGHEST VALUE IS		16.67294 AT (	468330.00, 3769941.69, 310.32, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		16.60250 AT (	468330.00, 3770041.69, 311.16, 377.00,
0.00) DC	6TH HIGHEST VALUE IS		15.80862 AT (	468330.00, 3769916.69, 310.32, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		15.78175 AT (	468330.00, 3770066.69, 311.32, 311.32,
0.00) DC	8TH HIGHEST VALUE IS		15.47610 AT (	468355.00, 3769991.69, 310.00, 394.00,
0.00) DC	9TH HIGHEST VALUE IS		15.43376 AT (	468355.00, 3770016.69, 310.33, 377.00,
0.00) DC	10TH HIGHEST VALUE IS		15.24341 AT (	468355.00, 3769966.69, 310.00, 395.00,
0.00) DC				
FWYEB14	1ST HIGHEST VALUE IS		19.52473 AT (	468330.00, 3769966.69, 310.32, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		19.48879 AT (	468330.00, 3769991.69, 310.32, 377.00,
0.00) DC	3RD HIGHEST VALUE IS		19.06747 AT (	468330.00, 3769941.69, 310.32, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		19.03454 AT (	468330.00, 3770016.69, 310.78, 377.00,
0.00) DC	5TH HIGHEST VALUE IS		18.18218 AT (	468330.00, 3770041.69, 311.16, 377.00,
0.00) DC	6TH HIGHEST VALUE IS		18.14457 AT (	468330.00, 3769916.69, 310.32, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		17.33398 AT (	468355.00, 3769991.69, 310.00, 394.00,
0.00) DC	8TH HIGHEST VALUE IS		17.20864 AT (	468355.00, 3769966.69, 310.00, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		17.11487 AT (	468355.00, 3770016.69, 310.33, 377.00,
0.00) DC	10TH HIGHEST VALUE IS		17.02732 AT (	468330.00, 3770066.69, 311.32, 311.32,
0.00) DC				
FWYEB15	1ST HIGHEST VALUE IS		22.21030 AT (	468330.00, 3769966.69, 310.32, 395.00,
0.00) DC				

0.00)	DC	2ND HIGHEST VALUE IS	21.89506 AT (	468330.00,	3769941.69,	310.32,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	21.88993 AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC	4TH HIGHEST VALUE IS	21.06664 AT (	468330.00,	3770016.69,	310.78,	377.00,
0.00)	DC	5TH HIGHEST VALUE IS	20.94750 AT (	468330.00,	3769916.69,	310.32,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	19.79620 AT (	468330.00,	3770041.69,	311.16,	377.00,
0.00)	DC	7TH HIGHEST VALUE IS	19.51163 AT (	468330.00,	3769891.69,	310.66,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	19.46284 AT (	468355.00,	3769966.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	19.40962 AT (	468355.00,	3769991.69,	310.00,	394.00,
0.00)	DC	10TH HIGHEST VALUE IS	19.02551 AT (	468355.00,	3769941.69,	310.00,	395.00,
FWYEB16	DC	1ST HIGHEST VALUE IS	25.28788 AT (	468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	25.27602 AT (	468330.00,	3769941.69,	310.32,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	24.49550 AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC	4TH HIGHEST VALUE IS	24.40475 AT (	468330.00,	3769916.69,	310.32,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	23.13106 AT (	468330.00,	3770016.69,	310.78,	377.00,
0.00)	DC	6TH HIGHEST VALUE IS	22.82714 AT (	468330.00,	3769891.69,	310.66,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	22.05508 AT (	468355.00,	3769966.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	21.78935 AT (	468355.00,	3769941.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	21.69479 AT (468355.00,	3769991.69,	310.00,	394.00,
0.00)	DC	10TH HIGHEST VALUE IS	21.30244 AT (468330.00,	3770041.69,	311.16,	377.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYEB17	1ST HIGHEST VALUE IS		29.52275 AT (	468330.00, 3769941.69, 310.32, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		28.99109 AT (	468330.00, 3769966.69, 310.32, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		28.88466 AT (	468330.00, 3769916.69, 310.32, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		27.46375 AT (	468330.00, 3769991.69, 310.32, 377.00,
0.00) DC	5TH HIGHEST VALUE IS		27.19853 AT (	468330.00, 3769891.69, 310.66, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		25.32048 AT (	468330.00, 3770016.69, 310.78, 377.00,
0.00) DC	7TH HIGHEST VALUE IS		25.24689 AT (	468355.00, 3769941.69, 310.00, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		25.19329 AT (	468355.00, 3769966.69, 310.00, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		24.71569 AT (	468330.00, 3769866.69, 311.33, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		24.44347 AT (	468355.00, 3769916.69, 310.00, 395.00,
0.00) DC				
FWYEB18	1ST HIGHEST VALUE IS		34.67697 AT (	468330.00, 3769941.69, 310.32, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		34.57421 AT (	468330.00, 3769916.69, 310.32, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		33.21582 AT (	468330.00, 3769966.69, 310.32, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		32.91273 AT (	468330.00, 3769891.69, 310.66, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		30.59027 AT (	468330.00, 3769991.69, 310.32, 377.00,
0.00) DC	6TH HIGHEST VALUE IS		29.95777 AT (	468330.00, 3769866.69, 311.33, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		29.44133 AT (	468355.00, 3769941.69, 310.00, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		28.89721 AT (	468355.00, 3769916.69, 310.00, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		28.82711 AT (	468355.00, 3769966.69, 310.00, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		27.40081 AT (	468330.00, 3770016.69, 310.78, 377.00,
0.00) DC				
FWYEB19	1ST HIGHEST VALUE IS		41.85247 AT (	468330.00, 3769916.69, 310.32, 395.00,
0.00) DC				

0.00)	DC	2ND HIGHEST VALUE IS	40.86267 AT (	468330.00,	3769941.69,	310.32,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	40.53783 AT (	468330.00,	3769891.69,	310.66,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	37.86898 AT (	468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	37.08983 AT (	468330.00,	3769866.69,	311.33,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	34.54002 AT (	468355.00,	3769916.69,	310.00,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	34.51393 AT (	468355.00,	3769941.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	33.66837 AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC	9TH HIGHEST VALUE IS	33.06008 AT (	468355.00,	3769891.69,	310.49,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	32.95320 AT (	468355.00,	3769966.69,	310.00,	395.00,
FWYEB20	DC	1ST HIGHEST VALUE IS	51.14646 AT (	468330.00,	3769916.69,	310.32,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	50.91051 AT (	468330.00,	3769891.69,	310.66,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	48.06598 AT (	468330.00,	3769941.69,	310.32,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	47.10998 AT (	468330.00,	3769866.69,	311.33,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	42.65824 AT (	468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	41.72100 AT (	468355.00,	3769916.69,	310.00,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	40.67474 AT (	468355.00,	3769891.69,	310.49,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	40.55982 AT (	468355.00,	3769941.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	37.45820 AT (468355.00,	3769966.69,	310.00,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	37.39045 AT (468355.00,	3769866.69,	311.16,	395.00,

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYEB21 0.00)	1ST HIGHEST VALUE IS	DC	65.03104 AT (468330.00, 3769891.69, 310.66, 395.00,	
0.00)	2ND HIGHEST VALUE IS	DC	62.59709 AT (468330.00, 3769916.69, 310.32, 395.00,	
0.00)	3RD HIGHEST VALUE IS	DC	61.54363 AT (468330.00, 3769866.69, 311.33, 395.00,	
0.00)	4TH HIGHEST VALUE IS	DC	55.77184 AT (468330.00, 3769941.69, 310.32, 395.00,	
0.00)	5TH HIGHEST VALUE IS	DC	50.83916 AT (468355.00, 3769891.69, 310.49, 395.00,	
0.00)	6TH HIGHEST VALUE IS	DC	50.67265 AT (468355.00, 3769916.69, 310.00, 395.00,	
0.00)	7TH HIGHEST VALUE IS	DC	47.39999 AT (468355.00, 3769941.69, 310.00, 395.00,	
0.00)	8TH HIGHEST VALUE IS	DC	47.34729 AT (468355.00, 3769866.69, 311.16, 395.00,	
0.00)	9TH HIGHEST VALUE IS	DC	46.86199 AT (468330.00, 3769966.69, 310.32, 395.00,	
0.00)	10TH HIGHEST VALUE IS	DC	41.92858 AT (468355.00, 3769966.69, 310.00, 395.00,	
FWYEB22 0.00)	1ST HIGHEST VALUE IS	DC	84.21749 AT (468330.00, 3769891.69, 310.66, 395.00,	
0.00)	2ND HIGHEST VALUE IS	DC	83.12650 AT (468330.00, 3769866.69, 311.33, 395.00,	
0.00)	3RD HIGHEST VALUE IS	DC	75.87237 AT (468330.00, 3769916.69, 310.32, 395.00,	
0.00)	4TH HIGHEST VALUE IS	DC	64.52877 AT (468355.00, 3769891.69, 310.49, 395.00,	
0.00)	5TH HIGHEST VALUE IS	DC	62.89007 AT (468330.00, 3769941.69, 310.32, 395.00,	
0.00)	6TH HIGHEST VALUE IS	DC	61.58970 AT (468355.00, 3769866.69, 311.16, 395.00,	
0.00)	7TH HIGHEST VALUE IS	DC	61.53557 AT (468355.00, 3769916.69, 310.00, 395.00,	
0.00)	8TH HIGHEST VALUE IS	DC	54.57216 AT (468355.00, 3769941.69, 310.00, 395.00,	
0.00)	9TH HIGHEST VALUE IS	DC	50.61106 AT (468380.00, 3769891.69, 310.32, 395.00,	
0.00)	10TH HIGHEST VALUE IS	DC	50.25951 AT (468380.00, 3769916.69, 310.00, 395.00,	
FWYEB23 0.00)	1ST HIGHEST VALUE IS	DC	118.11464 AT (468330.00, 3769866.69, 311.33, 395.00,	

0.00)	DC	2ND HIGHEST VALUE IS	110.76252 AT (	468330.00,	3769891.69,	310.66,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	90.22765 AT (	468330.00,	3769916.69,	310.32,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	83.77496 AT (	468355.00,	3769891.69,	310.49,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	83.56671 AT (	468355.00,	3769866.69,	311.16,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	74.65789 AT (	468355.00,	3769916.69,	310.00,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	68.17143 AT (	468330.00,	3769941.69,	310.32,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	64.45226 AT (	468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	61.80518 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	61.58185 AT (	468355.00,	3769941.69,	310.00,	395.00,
FWYEB24	DC	1ST HIGHEST VALUE IS	177.35368 AT (	468330.00,	3769866.69,	311.33,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	144.22924 AT (	468330.00,	3769891.69,	310.66,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	119.23120 AT (	468355.00,	3769866.69,	311.16,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	110.28526 AT (	468355.00,	3769891.69,	310.49,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	101.79041 AT (	468330.00,	3769916.69,	310.32,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	88.76269 AT (	468355.00,	3769916.69,	310.00,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	84.22301 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	83.88514 AT (	468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	74.34913 AT (468380.00,	3769916.69,	310.00,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	69.42009 AT (468330.00,	3769941.69,	310.32,	395.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYEB25 0.00)	1ST HIGHEST VALUE IS	DC	268.44245 AT (	468330.00, 3769866.69, 311.33, 395.00,
0.00)	2ND HIGHEST VALUE IS	DC	175.98145 AT (	468355.00, 3769866.69, 311.16, 395.00,
0.00)	3RD HIGHEST VALUE IS	DC	170.99927 AT (	468330.00, 3769891.69, 310.66, 395.00,
0.00)	4TH HIGHEST VALUE IS	DC	140.77923 AT (	468355.00, 3769891.69, 310.49, 395.00,
0.00)	5TH HIGHEST VALUE IS	DC	118.75071 AT (	468380.00, 3769866.69, 310.77, 395.00,
0.00)	6TH HIGHEST VALUE IS	DC	108.85253 AT (	468380.00, 3769891.69, 310.32, 395.00,
0.00)	7TH HIGHEST VALUE IS	DC	102.46789 AT (	468330.00, 3769916.69, 310.32, 395.00,
0.00)	8TH HIGHEST VALUE IS	DC	98.43319 AT (	468355.00, 3769916.69, 310.00, 395.00,
0.00)	9TH HIGHEST VALUE IS	DC	87.17053 AT (	468380.00, 3769916.69, 310.00, 395.00,
0.00)	10TH HIGHEST VALUE IS	DC	84.10347 AT (	468405.00, 3769866.69, 310.27, 395.00,
FWYEB26 0.00)	1ST HIGHEST VALUE IS	DC	365.44657 AT (	468330.00, 3769866.69, 311.33, 395.00,
0.00)	2ND HIGHEST VALUE IS	DC	264.33935 AT (	468355.00, 3769866.69, 311.16, 395.00,
0.00)	3RD HIGHEST VALUE IS	DC	174.96744 AT (	468380.00, 3769866.69, 310.77, 395.00,
0.00)	4TH HIGHEST VALUE IS	DC	170.17662 AT (	468330.00, 3769891.69, 310.66, 395.00,
0.00)	5TH HIGHEST VALUE IS	DC	165.88637 AT (	468355.00, 3769891.69, 310.49, 395.00,
0.00)	6TH HIGHEST VALUE IS	DC	138.46881 AT (	468380.00, 3769891.69, 310.32, 395.00,
0.00)	7TH HIGHEST VALUE IS	DC	118.75050 AT (	468405.00, 3769866.69, 310.27, 395.00,
0.00)	8TH HIGHEST VALUE IS	DC	107.80736 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00)	9TH HIGHEST VALUE IS	DC	99.03813 AT (	468355.00, 3769916.69, 310.00, 395.00,
0.00)	10TH HIGHEST VALUE IS	DC	96.50919 AT (	468380.00, 3769916.69, 310.00, 395.00,
FWYEB27 0.00)	1ST HIGHEST VALUE IS	DC	349.51106 AT (	468355.00, 3769866.69, 311.16, 395.00,

0.00)	DC	2ND HIGHEST VALUE IS	333.45795 AT (	468330.00,	3769866.69,	311.33,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	258.20139 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	173.40037 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	163.22758 AT (	468355.00,	3769891.69,	310.49,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	160.93337 AT (	468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	143.53929 AT (	468330.00,	3769891.69,	310.66,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	135.71474 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	119.25359 AT (	468430.00,	3769866.69,	310.00,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	107.34230 AT (	468430.00,	3769891.69,	309.99,	395.00,
FWYEB28	DC	1ST HIGHEST VALUE IS	324.80442 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	307.18991 AT (	468355.00,	3769866.69,	311.16,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	247.26806 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	239.64697 AT (	468330.00,	3769866.69,	311.33,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	170.52186 AT (	468430.00,	3769866.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	154.52162 AT (	468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	153.61210 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	136.03727 AT (	468355.00,	3769891.69,	310.49,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	132.38903 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	117.96465 AT (468330.00,	3769891.69,	310.66,	395.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYEB29 0.00)	1ST HIGHEST VALUE IS	DC	301.91516 AT (468405.00,	3769866.69, 310.27, 395.00,
0.00)	2ND HIGHEST VALUE IS	DC	282.50987 AT (468380.00,	3769866.69, 310.77, 395.00,
0.00)	3RD HIGHEST VALUE IS	DC	238.89222 AT (468430.00,	3769866.69, 310.00, 395.00,
0.00)	4TH HIGHEST VALUE IS	DC	224.72062 AT (468355.00,	3769866.69, 311.16, 395.00,
0.00)	5TH HIGHEST VALUE IS	DC	151.44791 AT (468330.00,	3769866.69, 311.33, 395.00,
0.00)	6TH HIGHEST VALUE IS	DC	148.11628 AT (468430.00,	3769891.69, 309.99, 395.00,
0.00)	7TH HIGHEST VALUE IS	DC	146.29744 AT (468405.00,	3769891.69, 310.00, 395.00,
0.00)	8TH HIGHEST VALUE IS	DC	129.47737 AT (468380.00,	3769891.69, 310.32, 395.00,
0.00)	9TH HIGHEST VALUE IS	DC	112.82255 AT (468355.00,	3769891.69, 310.49, 395.00,
0.00)	10TH HIGHEST VALUE IS	DC	90.95741 AT (468330.00,	3769891.69, 310.66, 395.00,
FWYEB30 0.00)	1ST HIGHEST VALUE IS	DC	288.57935 AT (468430.00,	3769866.69, 310.00, 395.00,
0.00)	2ND HIGHEST VALUE IS	DC	264.63171 AT (468405.00,	3769866.69, 310.27, 395.00,
0.00)	3RD HIGHEST VALUE IS	DC	211.00960 AT (468380.00,	3769866.69, 310.77, 395.00,
0.00)	4TH HIGHEST VALUE IS	DC	144.39404 AT (468355.00,	3769866.69, 311.16, 395.00,
0.00)	5TH HIGHEST VALUE IS	DC	141.38486 AT (468430.00,	3769891.69, 309.99, 395.00,
0.00)	6TH HIGHEST VALUE IS	DC	124.36052 AT (468405.00,	3769891.69, 310.00, 395.00,
0.00)	7TH HIGHEST VALUE IS	DC	109.02250 AT (468380.00,	3769891.69, 310.32, 395.00,
0.00)	8TH HIGHEST VALUE IS	DC	93.60178 AT (468330.00,	3769866.69, 311.33, 395.00,
0.00)	9TH HIGHEST VALUE IS	DC	88.25356 AT (468355.00,	3769891.69, 310.49, 395.00,
0.00)	10TH HIGHEST VALUE IS	DC	80.69216 AT (468430.00,	3769916.69, 309.99, 395.00,
FWYEB31 0.00)	1ST HIGHEST VALUE IS	DC	246.52171 AT (468430.00,	3769866.69, 310.00, 395.00,

0.00)	DC	2ND HIGHEST VALUE IS	198.64686 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	138.82200 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	119.13803 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	104.31400 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	91.13240 AT (	468355.00,	3769866.69,	311.16,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	85.16341 AT (	468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	70.81579 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	65.24000 AT (	468355.00,	3769891.69,	310.49,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	64.55467 AT (	468405.00,	3769916.69,	310.00,	395.00,
FWYEB32	DC	1ST HIGHEST VALUE IS	187.27743 AT (	468430.00,	3769866.69,	310.00,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	133.82713 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	99.97582 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	89.20025 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	82.23818 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	63.56532 AT (	468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	62.46458 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	61.00489 AT (	468355.00,	3769866.69,	311.16,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	54.83765 AT (468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	48.27754 AT (468355.00,	3769891.69,	310.49,	395.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYEB33 0.00)	DC	1ST HIGHEST VALUE IS	128.47975 AT (468430.00, 3769866.69, 310.00, 395.00,	
0.00)	DC	2ND HIGHEST VALUE IS	87.08918 AT (468405.00, 3769866.69, 310.27, 395.00,	
0.00)	DC	3RD HIGHEST VALUE IS	79.42970 AT (468430.00, 3769891.69, 309.99, 395.00,	
0.00)	DC	4TH HIGHEST VALUE IS	61.93032 AT (468405.00, 3769891.69, 310.00, 395.00,	
0.00)	DC	5TH HIGHEST VALUE IS	60.00291 AT (468380.00, 3769866.69, 310.77, 395.00,	
0.00)	DC	6TH HIGHEST VALUE IS	53.27545 AT (468430.00, 3769916.69, 309.99, 395.00,	
0.00)	DC	7TH HIGHEST VALUE IS	47.30712 AT (468380.00, 3769891.69, 310.32, 395.00,	
0.00)	DC	8TH HIGHEST VALUE IS	44.93407 AT (468405.00, 3769916.69, 310.00, 395.00,	
0.00)	DC	9TH HIGHEST VALUE IS	43.27696 AT (468355.00, 3769866.69, 311.16, 395.00,	
0.00)	DC	10TH HIGHEST VALUE IS	38.17433 AT (468430.00, 3769941.69, 309.99, 395.00,	
FWYEB34 0.00)	DC	1ST HIGHEST VALUE IS	84.45441 AT (468430.00, 3769866.69, 310.00, 395.00,	
0.00)	DC	2ND HIGHEST VALUE IS	60.06572 AT (468430.00, 3769891.69, 309.99, 395.00,	
0.00)	DC	3RD HIGHEST VALUE IS	58.88641 AT (468405.00, 3769866.69, 310.27, 395.00,	
0.00)	DC	4TH HIGHEST VALUE IS	46.29192 AT (468405.00, 3769891.69, 310.00, 395.00,	
0.00)	DC	5TH HIGHEST VALUE IS	43.72262 AT (468430.00, 3769916.69, 309.99, 395.00,	
0.00)	DC	6TH HIGHEST VALUE IS	42.66907 AT (468380.00, 3769866.69, 310.77, 395.00,	
0.00)	DC	7TH HIGHEST VALUE IS	36.13375 AT (468405.00, 3769916.69, 310.00, 395.00,	
0.00)	DC	8TH HIGHEST VALUE IS	35.82018 AT (468380.00, 3769891.69, 310.32, 395.00,	
0.00)	DC	9TH HIGHEST VALUE IS	32.92109 AT (468430.00, 3769941.69, 309.99, 395.00,	
0.00)	DC	10TH HIGHEST VALUE IS	32.23191 AT (468355.00, 3769866.69, 311.16, 395.00,	
FWYEB35 0.00)	DC	1ST HIGHEST VALUE IS	58.54287 AT (468430.00, 3769866.69, 310.00, 395.00,	

0.00)	DC	2ND HIGHEST VALUE IS	45.87425 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	42.57560 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	35.80781 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	35.65201 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	32.16958 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	29.40530 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	28.27185 AT (	468430.00,	3769941.69,	309.99,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	28.12404 AT (	468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	25.17510 AT (	468355.00,	3769866.69,	311.16,	395.00,
FWYEB36	DC	1ST HIGHEST VALUE IS	42.03797 AT (	468430.00,	3769866.69,	310.00,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	35.08479 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	31.90592 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	28.92649 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	27.82110 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	25.00162 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	23.88840 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	23.83566 AT (	468430.00,	3769941.69,	309.99,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	22.44729 AT (468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	20.38323 AT (468405.00,	3769941.69,	310.00,	395.00,

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYEB37 0.00)	DC	1ST HIGHEST VALUE IS	31.62949 AT (468430.00,	3769866.69, 310.00, 395.00,
0.00)	DC	2ND HIGHEST VALUE IS	27.49851 AT (468430.00,	3769891.69, 309.99, 395.00,
0.00)	DC	3RD HIGHEST VALUE IS	24.86062 AT (468405.00,	3769866.69, 310.27, 395.00,
0.00)	DC	4TH HIGHEST VALUE IS	23.59214 AT (468430.00,	3769916.69, 309.99, 395.00,
0.00)	DC	5TH HIGHEST VALUE IS	22.27134 AT (468405.00,	3769891.69, 310.00, 395.00,
0.00)	DC	6TH HIGHEST VALUE IS	20.12530 AT (468430.00,	3769941.69, 309.99, 395.00,
0.00)	DC	7TH HIGHEST VALUE IS	20.05389 AT (468380.00,	3769866.69, 310.77, 395.00,
0.00)	DC	8TH HIGHEST VALUE IS	19.68166 AT (468405.00,	3769916.69, 310.00, 395.00,
0.00)	DC	9TH HIGHEST VALUE IS	18.34175 AT (468380.00,	3769891.69, 310.32, 395.00,
0.00)	DC	10TH HIGHEST VALUE IS	17.26060 AT (468405.00,	3769941.69, 310.00, 395.00,
FWYEB38 0.00)	DC	1ST HIGHEST VALUE IS	24.64401 AT (468430.00,	3769866.69, 310.00, 395.00,
0.00)	DC	2ND HIGHEST VALUE IS	22.02554 AT (468430.00,	3769891.69, 309.99, 395.00,
0.00)	DC	3RD HIGHEST VALUE IS	19.92977 AT (468405.00,	3769866.69, 310.27, 395.00,
0.00)	DC	4TH HIGHEST VALUE IS	19.45114 AT (468430.00,	3769916.69, 309.99, 395.00,
0.00)	DC	5TH HIGHEST VALUE IS	18.19652 AT (468405.00,	3769891.69, 310.00, 395.00,
0.00)	DC	6TH HIGHEST VALUE IS	17.05313 AT (468430.00,	3769941.69, 309.99, 395.00,
0.00)	DC	7TH HIGHEST VALUE IS	16.45795 AT (468380.00,	3769866.69, 310.77, 395.00,
0.00)	DC	8TH HIGHEST VALUE IS	16.42250 AT (468405.00,	3769916.69, 310.00, 395.00,
0.00)	DC	9TH HIGHEST VALUE IS	15.25961 AT (468380.00,	3769891.69, 310.32, 395.00,
0.00)	DC	10TH HIGHEST VALUE IS	14.90487 AT (468430.00,	3769966.69, 309.99, 395.00,
FWYEB39 0.00)	DC	1ST HIGHEST VALUE IS	19.77460 AT (468430.00,	3769866.69, 310.00, 395.00,

0.00)	DC	2ND HIGHEST VALUE IS	18.01946 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	16.36378 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	16.25284 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	15.15021 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	14.55414 AT (	468430.00,	3769941.69,	309.99,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	13.88868 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	13.77381 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	12.97537 AT (	468430.00,	3769966.69,	309.99,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	12.90388 AT (	468380.00,	3769891.69,	310.32,	395.00,
FWYEB40	DC	1ST HIGHEST VALUE IS	16.29091 AT (	468430.00,	3769866.69,	310.00,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	15.05477 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	13.79229 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	13.73428 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	12.84802 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	12.55282 AT (	468430.00,	3769941.69,	309.99,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	11.91818 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	11.74370 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	11.37079 AT (468430.00,	3769966.69,	309.99,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	11.08873 AT (468380.00,	3769891.69,	310.32,	395.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYEB41	1ST HIGHEST VALUE IS		13.68120 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		12.77789 AT (	468430.00, 3769891.69, 309.99, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		11.84658 AT (	468430.00, 3769916.69, 309.99, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		11.71403 AT (	468405.00, 3769866.69, 310.27, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		11.04666 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		10.91948 AT (	468430.00, 3769941.69, 309.99, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		10.34212 AT (	468405.00, 3769916.69, 310.00, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		10.14948 AT (	468380.00, 3769866.69, 310.77, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		10.01928 AT (	468430.00, 3769966.69, 309.99, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		9.64352 AT (	468380.00, 3769891.69, 310.32, 395.00,
0.00) DC				
FWYEB42	1ST HIGHEST VALUE IS		11.65597 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		10.97703 AT (	468430.00, 3769891.69, 309.99, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		10.27261 AT (	468430.00, 3769916.69, 309.99, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		10.11186 AT (	468405.00, 3769866.69, 310.27, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		9.59797 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		9.56470 AT (	468430.00, 3769941.69, 309.99, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		9.05247 AT (	468405.00, 3769916.69, 310.00, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		8.86860 AT (	468430.00, 3769966.69, 309.99, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		8.86061 AT (	468380.00, 3769866.69, 310.77, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		8.49954 AT (	468405.00, 3769941.69, 310.00, 395.00,
0.00) DC				
FWYEB43	1ST HIGHEST VALUE IS		10.06972 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC				

0.00)	DC	2ND HIGHEST VALUE IS	9.54585 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	8.99996 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	8.83362 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	8.44770 AT (	468430.00,	3769941.69,	309.99,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	8.42890 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	7.99758 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	7.89979 AT (	468430.00,	3769966.69,	309.99,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	7.81571 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	7.55832 AT (	468405.00,	3769941.69,	310.00,	395.00,
FWYEB44	DC	1ST HIGHEST VALUE IS	8.80529 AT (	468430.00,	3769866.69,	310.00,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	8.39183 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	7.95969 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	7.79848 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	7.52037 AT (	468430.00,	3769941.69,	309.99,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	7.47333 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	7.12588 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	7.08173 AT (	468430.00,	3769966.69,	309.99,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	6.95776 AT (468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	6.77082 AT (468405.00,	3769941.69,	310.00,	395.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYEB45	1ST HIGHEST VALUE IS		7.75020 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		7.41429 AT (	468430.00, 3769891.69, 309.99, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		7.06375 AT (	468430.00, 3769916.69, 309.99, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		6.92347 AT (	468405.00, 3769866.69, 310.27, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		6.70702 AT (	468430.00, 3769941.69, 309.99, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		6.65522 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		6.36901 AT (	468405.00, 3769916.69, 310.00, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		6.34979 AT (	468430.00, 3769966.69, 309.99, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		6.07648 AT (	468405.00, 3769941.69, 310.00, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		6.00666 AT (	468380.00, 3769891.69, 310.32, 395.00,
0.00) DC				
FWYEB46	1ST HIGHEST VALUE IS		6.87763 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		6.60093 AT (	468430.00, 3769891.69, 309.99, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		6.31266 AT (	468430.00, 3769916.69, 309.99, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		6.01914 AT (	468430.00, 3769941.69, 309.99, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		5.96670 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		5.72810 AT (	468405.00, 3769916.69, 310.00, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		5.72459 AT (	468430.00, 3769966.69, 309.99, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		5.48427 AT (	468405.00, 3769941.69, 310.00, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		5.23868 AT (	468405.00, 3769966.69, 310.00, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		5.22358 AT (	468380.00, 3769916.69, 310.00, 395.00,
0.00) DC				
FWYEB47	1ST HIGHEST VALUE IS		6.15623 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC				

0.00)	DC	2ND HIGHEST VALUE IS	5.92290 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	5.68069 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	5.43437 AT (	468430.00,	3769941.69,	309.99,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	5.38714 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	5.18705 AT (	468430.00,	3769966.69,	309.99,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	5.18430 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	4.97735 AT (	468405.00,	3769941.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	4.76892 AT (	468405.00,	3769966.69,	310.00,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	4.75233 AT (	468380.00,	3769916.69,	310.00,	395.00,
FWYEB48	DC	1ST HIGHEST VALUE IS	5.54879 AT (	468430.00,	3769866.69,	310.00,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	5.34997 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	5.14428 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	4.93532 AT (	468430.00,	3769941.69,	309.99,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	4.89288 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	4.72547 AT (	468430.00,	3769966.69,	309.99,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	4.71879 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	4.54146 AT (	468405.00,	3769941.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	4.36290 AT (468405.00,	3769966.69,	310.00,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	4.34580 AT (468380.00,	3769916.69,	310.00,	395.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYEB49	1ST HIGHEST VALUE IS		5.03249 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		4.86149 AT (	468430.00, 3769891.69, 309.99, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		4.68510 AT (	468430.00, 3769916.69, 309.99, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		4.50611 AT (	468430.00, 3769941.69, 309.99, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		4.46797 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		4.32635 AT (	468430.00, 3769966.69, 309.99, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		4.31728 AT (	468405.00, 3769916.69, 310.00, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		4.16400 AT (	468405.00, 3769941.69, 310.00, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		4.00972 AT (	468405.00, 3769966.69, 310.00, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		3.99269 AT (	468380.00, 3769916.69, 310.00, 395.00,
0.00) DC				
FWYEB50	1ST HIGHEST VALUE IS		4.58902 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		4.44075 AT (	468430.00, 3769891.69, 309.99, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		4.28821 AT (	468430.00, 3769916.69, 309.99, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		4.13358 AT (	468430.00, 3769941.69, 309.99, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		4.09928 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		3.97829 AT (	468430.00, 3769966.69, 309.99, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		3.96785 AT (	468405.00, 3769916.69, 310.00, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		3.83435 AT (	468405.00, 3769941.69, 310.00, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		3.70003 AT (	468405.00, 3769966.69, 310.00, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		3.68344 AT (	468380.00, 3769916.69, 310.00, 395.00,
0.00) DC				
FWYEB51	1ST HIGHEST VALUE IS		4.20392 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC				

0.00)	DC	2ND HIGHEST VALUE IS	4.07355 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	3.93990 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	3.80470 AT (	468430.00,	3769941.69,	309.99,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	3.77554 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	3.66901 AT (	468430.00,	3769966.69,	309.99,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	3.65953 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	3.54194 AT (	468405.00,	3769941.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	3.42374 AT (	468405.00,	3769966.69,	310.00,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	3.40920 AT (	468380.00,	3769916.69,	310.00,	395.00,
0.00)	DC						
FWYEB52		1ST HIGHEST VALUE IS	3.86794 AT (	468430.00,	3769866.69,	310.00,	395.00,
0.00)	DC						
0.00)	DC	2ND HIGHEST VALUE IS	3.75265 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	3.63484 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	3.51586 AT (	468430.00,	3769941.69,	309.99,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	3.49088 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	3.39653 AT (	468430.00,	3769966.69,	309.99,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	3.38791 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	3.28373 AT (	468405.00,	3769941.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	3.17911 AT (	468405.00,	3769966.69,	310.00,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	3.16629 AT (468380.00,	3769916.69,	310.00,	395.00,
0.00)	DC						

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYEB53	1ST HIGHEST VALUE IS		3.57280 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		3.47032 AT (	468430.00, 3769891.69, 309.99, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		3.36589 AT (	468430.00, 3769916.69, 309.99, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		3.26058 AT (	468430.00, 3769941.69, 309.99, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		3.23902 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		3.15502 AT (	468430.00, 3769966.69, 309.99, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		3.14716 AT (	468405.00, 3769916.69, 310.00, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		3.05439 AT (	468405.00, 3769941.69, 310.00, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		2.96131 AT (	468405.00, 3769966.69, 310.00, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		2.94993 AT (	468380.00, 3769916.69, 310.00, 395.00,
0.00) DC				
FWYEB54	1ST HIGHEST VALUE IS		3.31218 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		3.22065 AT (	468430.00, 3769891.69, 309.99, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		3.12760 AT (	468430.00, 3769916.69, 309.99, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		3.03388 AT (	468430.00, 3769941.69, 309.99, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		3.01514 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		2.94001 AT (	468430.00, 3769966.69, 309.99, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		2.93282 AT (	468405.00, 3769916.69, 310.00, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		2.84981 AT (	468405.00, 3769941.69, 310.00, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		2.76657 AT (	468405.00, 3769966.69, 310.00, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		2.75643 AT (	468380.00, 3769916.69, 310.00, 395.00,
0.00) DC				
FWYEB55	1ST HIGHEST VALUE IS		3.08138 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC				

0.00)	DC	2ND HIGHEST VALUE IS	2.99923 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	2.91589 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	2.83206 AT (	468430.00,	3769941.69,	309.99,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	2.81566 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	2.74814 AT (	468430.00,	3769966.69,	309.99,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	2.74155 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	2.66691 AT (	468405.00,	3769941.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	2.59213 AT (	468405.00,	3769966.69,	310.00,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	2.58303 AT (	468380.00,	3769916.69,	310.00,	395.00,
FWYWB1	DC	1ST HIGHEST VALUE IS	6.24472 AT (	468330.00,	3770091.69,	311.50,	311.50,
0.00)	DC	2ND HIGHEST VALUE IS	6.20383 AT (	468330.00,	3770066.69,	311.32,	311.32,
0.00)	DC	3RD HIGHEST VALUE IS	6.11972 AT (	468330.00,	3770041.69,	311.16,	377.00,
0.00)	DC	4TH HIGHEST VALUE IS	5.98660 AT (	468330.00,	3770016.69,	310.78,	377.00,
0.00)	DC	5TH HIGHEST VALUE IS	5.85725 AT (	468355.00,	3770091.69,	311.17,	311.17,
0.00)	DC	6TH HIGHEST VALUE IS	5.81113 AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC	7TH HIGHEST VALUE IS	5.80587 AT (	468355.00,	3770066.69,	311.00,	377.00,
0.00)	DC	8TH HIGHEST VALUE IS	5.71424 AT (	468355.00,	3770041.69,	310.75,	377.00,
0.00)	DC	9TH HIGHEST VALUE IS	5.61338 AT (468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	5.58122 AT (468355.00,	3770016.69,	310.33,	377.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYWB2 0.00)	DC	1ST HIGHEST VALUE IS	6.65765 AT (468330.00, 3770091.69, 311.50, 311.50,	
0.00)	DC	2ND HIGHEST VALUE IS	6.63312 AT (468330.00, 3770066.69, 311.32, 311.32,	
0.00)	DC	3RD HIGHEST VALUE IS	6.55911 AT (468330.00, 3770041.69, 311.16, 377.00,	
0.00)	DC	4TH HIGHEST VALUE IS	6.42848 AT (468330.00, 3770016.69, 310.78, 377.00,	
0.00)	DC	5TH HIGHEST VALUE IS	6.24812 AT (468330.00, 3769991.69, 310.32, 377.00,	
0.00)	DC	6TH HIGHEST VALUE IS	6.23668 AT (468355.00, 3770091.69, 311.17, 311.17,	
0.00)	DC	7TH HIGHEST VALUE IS	6.19763 AT (468355.00, 3770066.69, 311.00, 377.00,	
0.00)	DC	8TH HIGHEST VALUE IS	6.11260 AT (468355.00, 3770041.69, 310.75, 377.00,	
0.00)	DC	9TH HIGHEST VALUE IS	6.04022 AT (468330.00, 3769966.69, 310.32, 395.00,	
0.00)	DC	10TH HIGHEST VALUE IS	5.97978 AT (468355.00, 3770016.69, 310.33, 377.00,	
FWYWB3 0.00)	DC	1ST HIGHEST VALUE IS	7.10767 AT (468330.00, 3770091.69, 311.50, 311.50,	
0.00)	DC	2ND HIGHEST VALUE IS	7.10496 AT (468330.00, 3770066.69, 311.32, 311.32,	
0.00)	DC	3RD HIGHEST VALUE IS	7.04560 AT (468330.00, 3770041.69, 311.16, 377.00,	
0.00)	DC	4TH HIGHEST VALUE IS	6.92077 AT (468330.00, 3770016.69, 310.78, 377.00,	
0.00)	DC	5TH HIGHEST VALUE IS	6.73741 AT (468330.00, 3769991.69, 310.32, 377.00,	
0.00)	DC	6TH HIGHEST VALUE IS	6.65036 AT (468355.00, 3770091.69, 311.17, 311.17,	
0.00)	DC	7TH HIGHEST VALUE IS	6.62794 AT (468355.00, 3770066.69, 311.00, 377.00,	
0.00)	DC	8TH HIGHEST VALUE IS	6.55298 AT (468355.00, 3770041.69, 310.75, 377.00,	
0.00)	DC	9TH HIGHEST VALUE IS	6.51992 AT (468330.00, 3769966.69, 310.32, 395.00,	
0.00)	DC	10TH HIGHEST VALUE IS	6.42280 AT (468355.00, 3770016.69, 310.33, 377.00,	
FWYWB4 0.00)	DC	1ST HIGHEST VALUE IS	7.62504 AT (468330.00, 3770066.69, 311.32, 311.32,	

0.00)	DC	2ND HIGHEST VALUE IS	7.59890 AT (	468330.00,	3770091.69,	311.50,	311.50,
0.00)	DC	3RD HIGHEST VALUE IS	7.58633 AT (	468330.00,	3770041.69,	311.16,	377.00,
0.00)	DC	4TH HIGHEST VALUE IS	7.47189 AT (	468330.00,	3770016.69,	310.78,	377.00,
0.00)	DC	5TH HIGHEST VALUE IS	7.28839 AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC	6TH HIGHEST VALUE IS	7.10235 AT (	468355.00,	3770091.69,	311.17,	311.17,
0.00)	DC	7TH HIGHEST VALUE IS	7.10210 AT (	468355.00,	3770066.69,	311.00,	377.00,
0.00)	DC	8TH HIGHEST VALUE IS	7.06244 AT (	468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	7.04181 AT (	468355.00,	3770041.69,	310.75,	377.00,
0.00)	DC	10TH HIGHEST VALUE IS	6.91765 AT (	468355.00,	3770016.69,	310.33,	377.00,
FWYWB5	DC	1ST HIGHEST VALUE IS	8.18763 AT (	468330.00,	3770066.69,	311.32,	311.32,
0.00)	DC	2ND HIGHEST VALUE IS	8.17718 AT (	468330.00,	3770041.69,	311.16,	377.00,
0.00)	DC	3RD HIGHEST VALUE IS	8.12411 AT (	468330.00,	3770091.69,	311.50,	311.50,
0.00)	DC	4TH HIGHEST VALUE IS	8.07904 AT (	468330.00,	3770016.69,	310.78,	377.00,
0.00)	DC	5TH HIGHEST VALUE IS	7.89937 AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC	6TH HIGHEST VALUE IS	7.66730 AT (	468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	7.61506 AT (	468355.00,	3770066.69,	311.00,	377.00,
0.00)	DC	8TH HIGHEST VALUE IS	7.58637 AT (	468355.00,	3770091.69,	311.17,	311.17,
0.00)	DC	9TH HIGHEST VALUE IS	7.57525 AT (468355.00,	3770041.69,	310.75,	377.00,
0.00)	DC	10TH HIGHEST VALUE IS	7.46147 AT (468355.00,	3770016.69,	310.33,	377.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYWB6 0.00)	DC	1ST HIGHEST VALUE IS	8.85560 AT (468330.00,	3770041.69, 311.16, 377.00,
0.00)	DC	2ND HIGHEST VALUE IS	8.82687 AT (468330.00,	3770066.69, 311.32, 311.32,
0.00)	DC	3RD HIGHEST VALUE IS	8.78304 AT (468330.00,	3770016.69, 310.78, 377.00,
0.00)	DC	4TH HIGHEST VALUE IS	8.71372 AT (468330.00,	3770091.69, 311.50, 311.50,
0.00)	DC	5TH HIGHEST VALUE IS	8.61382 AT (468330.00,	3769991.69, 310.32, 377.00,
0.00)	DC	6TH HIGHEST VALUE IS	8.37852 AT (468330.00,	3769966.69, 310.32, 395.00,
0.00)	DC	7TH HIGHEST VALUE IS	8.19850 AT (468355.00,	3770066.69, 311.00, 377.00,
0.00)	DC	8TH HIGHEST VALUE IS	8.18769 AT (468355.00,	3770041.69, 310.75, 377.00,
0.00)	DC	9TH HIGHEST VALUE IS	8.13121 AT (468355.00,	3770091.69, 311.17, 311.17,
0.00)	DC	10TH HIGHEST VALUE IS	8.09125 AT (468355.00,	3770016.69, 310.33, 377.00,
FWYWB7 0.00)	DC	1ST HIGHEST VALUE IS	9.58171 AT (468330.00,	3770041.69, 311.16, 377.00,
0.00)	DC	2ND HIGHEST VALUE IS	9.54515 AT (468330.00,	3770016.69, 310.78, 377.00,
0.00)	DC	3RD HIGHEST VALUE IS	9.50126 AT (468330.00,	3770066.69, 311.32, 311.32,
0.00)	DC	4TH HIGHEST VALUE IS	9.39422 AT (468330.00,	3769991.69, 310.32, 377.00,
0.00)	DC	5TH HIGHEST VALUE IS	9.32533 AT (468330.00,	3770091.69, 311.50, 311.50,
0.00)	DC	6TH HIGHEST VALUE IS	9.16171 AT (468330.00,	3769966.69, 310.32, 395.00,
0.00)	DC	7TH HIGHEST VALUE IS	8.84277 AT (468355.00,	3770041.69, 310.75, 377.00,
0.00)	DC	8TH HIGHEST VALUE IS	8.83069 AT (468330.00,	3769941.69, 310.32, 395.00,
0.00)	DC	9TH HIGHEST VALUE IS	8.81507 AT (468355.00,	3770066.69, 311.00, 377.00,
0.00)	DC	10TH HIGHEST VALUE IS	8.77135 AT (468355.00,	3770016.69, 310.33, 377.00,
FWYWB8 0.00)	DC	1ST HIGHEST VALUE IS	10.38979 AT (468330.00,	3770016.69, 310.78, 377.00,

0.00)	DC	2ND HIGHEST VALUE IS	10.37574 AT (	468330.00,	3770041.69,	311.16,	377.00,
0.00)	DC	3RD HIGHEST VALUE IS	10.26865 AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC	4TH HIGHEST VALUE IS	10.22689 AT (	468330.00,	3770066.69,	311.32,	311.32,
0.00)	DC	5TH HIGHEST VALUE IS	10.04729 AT (	468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	9.97105 AT (	468330.00,	3770091.69,	311.50,	311.50,
0.00)	DC	7TH HIGHEST VALUE IS	9.70420 AT (	468330.00,	3769941.69,	310.32,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	9.55961 AT (	468355.00,	3770041.69,	310.75,	377.00,
0.00)	DC	9TH HIGHEST VALUE IS	9.52409 AT (	468355.00,	3770016.69,	310.33,	377.00,
0.00)	DC	10TH HIGHEST VALUE IS	9.48061 AT (	468355.00,	3770066.69,	311.00,	377.00,
FWYWB9	DC	1ST HIGHEST VALUE IS	11.36624 AT (	468330.00,	3770016.69,	310.78,	377.00,
0.00)	DC	2ND HIGHEST VALUE IS	11.29311 AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC	3RD HIGHEST VALUE IS	11.27950 AT (	468330.00,	3770041.69,	311.16,	377.00,
0.00)	DC	4TH HIGHEST VALUE IS	11.09491 AT (	468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	11.03862 AT (	468330.00,	3770066.69,	311.32,	311.32,
0.00)	DC	6TH HIGHEST VALUE IS	10.74514 AT (	468330.00,	3769941.69,	310.32,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	10.67902 AT (	468330.00,	3770091.69,	311.50,	311.50,
0.00)	DC	8TH HIGHEST VALUE IS	10.39437 AT (	468355.00,	3770016.69,	310.33,	377.00,
0.00)	DC	9TH HIGHEST VALUE IS	10.37740 AT (468355.00,	3770041.69,	310.75,	377.00,
0.00)	DC	10TH HIGHEST VALUE IS	10.28694 AT (468355.00,	3769991.69,	310.00,	394.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYWB10	1ST HIGHEST VALUE IS		12.52202 AT (	468330.00, 3769991.69, 310.32, 377.00,
0.00) DC	2ND HIGHEST VALUE IS		12.51831 AT (	468330.00, 3770016.69, 310.78, 377.00,
0.00) DC	3RD HIGHEST VALUE IS		12.36567 AT (	468330.00, 3769966.69, 310.32, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		12.32588 AT (	468330.00, 3770041.69, 311.16, 377.00,
0.00) DC	5TH HIGHEST VALUE IS		12.01869 AT (	468330.00, 3769941.69, 310.32, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		11.95983 AT (	468330.00, 3770066.69, 311.32, 311.32,
0.00) DC	7TH HIGHEST VALUE IS		11.49864 AT (	468330.00, 3769916.69, 310.32, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		11.46410 AT (	468330.00, 3770091.69, 311.50, 311.50,
0.00) DC	9TH HIGHEST VALUE IS		11.42272 AT (	468355.00, 3770016.69, 310.33, 377.00,
0.00) DC	10TH HIGHEST VALUE IS		11.36801 AT (	468355.00, 3769991.69, 310.00, 394.00,
0.00) DC				
FWYWB11	1ST HIGHEST VALUE IS		13.94213 AT (	468330.00, 3769991.69, 310.32, 377.00,
0.00) DC	2ND HIGHEST VALUE IS		13.85671 AT (	468330.00, 3769966.69, 310.32, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		13.82157 AT (	468330.00, 3770016.69, 310.78, 377.00,
0.00) DC	4TH HIGHEST VALUE IS		13.53065 AT (	468330.00, 3769941.69, 310.32, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		13.48058 AT (	468330.00, 3770041.69, 311.16, 377.00,
0.00) DC	6TH HIGHEST VALUE IS		12.97927 AT (	468330.00, 3769916.69, 310.32, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		12.94871 AT (	468330.00, 3770066.69, 311.32, 311.32,
0.00) DC	8TH HIGHEST VALUE IS		12.61628 AT (	468355.00, 3769991.69, 310.00, 394.00,
0.00) DC	9TH HIGHEST VALUE IS		12.58979 AT (	468355.00, 3770016.69, 310.33, 377.00,
0.00) DC	10TH HIGHEST VALUE IS		12.46795 AT (	468355.00, 3769966.69, 310.00, 395.00,
0.00) DC				
FWYWB12	1ST HIGHEST VALUE IS		15.48522 AT (	468330.00, 3769966.69, 310.32, 395.00,
0.00) DC				

0.00)	DC	2ND HIGHEST VALUE IS	15.45904 AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC	3RD HIGHEST VALUE IS	15.21030 AT (	468330.00,	3769941.69,	310.32,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	15.18108 AT (	468330.00,	3770016.69,	310.78,	377.00,
0.00)	DC	5TH HIGHEST VALUE IS	14.64971 AT (	468330.00,	3770041.69,	311.16,	377.00,
0.00)	DC	6TH HIGHEST VALUE IS	14.64349 AT (	468330.00,	3769916.69,	310.32,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	13.94864 AT (	468355.00,	3769991.69,	310.00,	394.00,
0.00)	DC	8TH HIGHEST VALUE IS	13.91193 AT (	468330.00,	3770066.69,	311.32,	311.32,
0.00)	DC	9TH HIGHEST VALUE IS	13.87291 AT (	468355.00,	3769966.69,	310.00,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	13.84831 AT (	468330.00,	3769891.69,	310.66,	395.00,
FWYWB13	DC	1ST HIGHEST VALUE IS	17.36911 AT (	468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	17.19047 AT (	468330.00,	3769941.69,	310.32,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	17.17193 AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC	4TH HIGHEST VALUE IS	16.67149 AT (	468330.00,	3770016.69,	310.78,	377.00,
0.00)	DC	5TH HIGHEST VALUE IS	16.63226 AT (	468330.00,	3769916.69,	310.32,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	15.88639 AT (	468330.00,	3770041.69,	311.16,	377.00,
0.00)	DC	7TH HIGHEST VALUE IS	15.76095 AT (	468330.00,	3769891.69,	310.66,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	15.49441 AT (	468355.00,	3769966.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	15.45638 AT (468355.00,	3769991.69,	310.00,	394.00,
0.00)	DC	10TH HIGHEST VALUE IS	15.23152 AT (468355.00,	3769941.69,	310.00,	395.00,

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYWB14	1ST HIGHEST VALUE IS		19.52880 AT (	468330.00, 3769966.69, 310.32, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		19.51641 AT (	468330.00, 3769941.69, 310.32, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		19.07576 AT (	468330.00, 3769991.69, 310.32, 377.00,
0.00) DC	4TH HIGHEST VALUE IS		19.01008 AT (	468330.00, 3769916.69, 310.32, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		18.26827 AT (	468330.00, 3770016.69, 310.78, 377.00,
0.00) DC	6TH HIGHEST VALUE IS		18.07470 AT (	468330.00, 3769891.69, 310.66, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		17.35163 AT (	468355.00, 3769966.69, 310.00, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		17.18811 AT (	468355.00, 3769941.69, 310.00, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		17.15293 AT (	468330.00, 3770041.69, 311.16, 377.00,
0.00) DC	10TH HIGHEST VALUE IS		17.14079 AT (	468355.00, 3769991.69, 310.00, 394.00,
0.00) DC				
FWYWB15	1ST HIGHEST VALUE IS		22.25450 AT (	468330.00, 3769941.69, 310.32, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		21.96875 AT (	468330.00, 3769966.69, 310.32, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		21.90052 AT (	468330.00, 3769916.69, 310.32, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		21.11964 AT (	468330.00, 3769991.69, 310.32, 377.00,
0.00) DC	5TH HIGHEST VALUE IS		20.95605 AT (	468330.00, 3769891.69, 310.66, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		19.88050 AT (	468330.00, 3770016.69, 310.78, 377.00,
0.00) DC	7TH HIGHEST VALUE IS		19.51167 AT (	468330.00, 3769866.69, 311.33, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		19.48882 AT (	468355.00, 3769941.69, 310.00, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		19.46355 AT (	468355.00, 3769966.69, 310.00, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		19.02190 AT (	468355.00, 3769916.69, 310.00, 395.00,
0.00) DC				
FWYWB16	1ST HIGHEST VALUE IS		25.44981 AT (	468330.00, 3769941.69, 310.32, 395.00,
0.00) DC				

0.00)	DC	2ND HIGHEST VALUE IS	25.39024 AT (	468330.00,	3769916.69,	310.32,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	24.69269 AT (	468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	24.52022 AT (	468330.00,	3769891.69,	310.66,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	23.27775 AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC	6TH HIGHEST VALUE IS	22.91926 AT (	468330.00,	3769866.69,	311.33,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	22.17415 AT (	468355.00,	3769941.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	21.87077 AT (	468355.00,	3769916.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	21.84442 AT (	468355.00,	3769966.69,	310.00,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	21.46907 AT (	468330.00,	3770016.69,	310.78,	377.00,
FWYWB17	DC	1ST HIGHEST VALUE IS	29.70047 AT (	468330.00,	3769916.69,	310.32,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	29.22647 AT (	468330.00,	3769941.69,	310.32,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	29.06193 AT (	468330.00,	3769891.69,	310.66,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	27.73470 AT (	468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	27.33952 AT (	468330.00,	3769866.69,	311.33,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	25.52178 AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC	7TH HIGHEST VALUE IS	25.37146 AT (	468355.00,	3769916.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	25.36448 AT (	468355.00,	3769941.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	24.59659 AT (468355.00,	3769891.69,	310.49,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	24.55248 AT (468355.00,	3769966.69,	310.00,	395.00,

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

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

**

NETWORK		AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL,			
GROUP ID	ZFLAG) OF TYPE GRID-ID						
FWYWB18	1ST HIGHEST VALUE IS	34.95698	AT (	468330.00,	3769916.69,	310.32,	395.00,
0.00)	DC						
	2ND HIGHEST VALUE IS	34.85451	AT (	468330.00,	3769891.69,	310.66,	395.00,
0.00)	DC						
	3RD HIGHEST VALUE IS	33.56021	AT (	468330.00,	3769941.69,	310.32,	395.00,
0.00)	DC						
	4TH HIGHEST VALUE IS	33.13777	AT (	468330.00,	3769866.69,	311.33,	395.00,
0.00)	DC						
	5TH HIGHEST VALUE IS	30.96181	AT (	468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC						
	6TH HIGHEST VALUE IS	29.63467	AT (	468355.00,	3769916.69,	310.00,	395.00,
0.00)	DC						
	7TH HIGHEST VALUE IS	29.12633	AT (	468355.00,	3769891.69,	310.49,	395.00,
0.00)	DC						
	8TH HIGHEST VALUE IS	29.07585	AT (	468355.00,	3769941.69,	310.00,	395.00,
0.00)	DC						
	9TH HIGHEST VALUE IS	27.67212	AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC						
	10TH HIGHEST VALUE IS	27.52234	AT (	468355.00,	3769966.69,	310.00,	395.00,
0.00)	DC						
FWYWB19	1ST HIGHEST VALUE IS	42.29454	AT (	468330.00,	3769891.69,	310.66,	395.00,
0.00)	DC						
	2ND HIGHEST VALUE IS	41.29460	AT (	468330.00,	3769916.69,	310.32,	395.00,
0.00)	DC						
	3RD HIGHEST VALUE IS	40.90031	AT (	468330.00,	3769866.69,	311.33,	395.00,
0.00)	DC						
	4TH HIGHEST VALUE IS	38.36114	AT (	468330.00,	3769941.69,	310.32,	395.00,
0.00)	DC						
	5TH HIGHEST VALUE IS	34.88305	AT (	468355.00,	3769891.69,	310.49,	395.00,
0.00)	DC						
	6TH HIGHEST VALUE IS	34.80726	AT (	468355.00,	3769916.69,	310.00,	395.00,
0.00)	DC						
	7TH HIGHEST VALUE IS	34.16270	AT (	468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC						
	8TH HIGHEST VALUE IS	33.30727	AT (	468355.00,	3769941.69,	310.00,	395.00,
0.00)	DC						
	9TH HIGHEST VALUE IS	33.30023	AT (	468355.00,	3769866.69,	311.16,	395.00,
0.00)	DC						
	10TH HIGHEST VALUE IS	30.64768	AT (	468355.00,	3769966.69,	310.00,	395.00,
0.00)	DC						
FWYWB20	1ST HIGHEST VALUE IS	51.86402	AT (	468330.00,	3769891.69,	310.66,	395.00,
0.00)	DC						

0.00)	DC	2ND HIGHEST VALUE IS	51.52264 AT (	468330.00,	3769866.69,	311.33,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	48.73665 AT (	468330.00,	3769916.69,	310.32,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	43.35490 AT (	468330.00,	3769941.69,	310.32,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	42.25084 AT (	468355.00,	3769891.69,	310.49,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	41.06195 AT (	468355.00,	3769866.69,	311.16,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	41.01093 AT (	468355.00,	3769916.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	37.96289 AT (	468355.00,	3769941.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	36.98339 AT (	468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	34.90288 AT (	468380.00,	3769891.69,	310.32,	395.00,
FWYWB21	DC	1ST HIGHEST VALUE IS	66.33030 AT (	468330.00,	3769866.69,	311.33,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	63.99099 AT (	468330.00,	3769891.69,	310.66,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	56.97165 AT (	468330.00,	3769916.69,	310.32,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	51.66403 AT (	468355.00,	3769891.69,	310.49,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	51.63820 AT (	468355.00,	3769866.69,	311.16,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	48.22818 AT (	468355.00,	3769916.69,	310.00,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	47.94797 AT (	468330.00,	3769941.69,	310.32,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	42.74748 AT (	468355.00,	3769941.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	42.19084 AT (468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	41.13459 AT (468380.00,	3769866.69,	310.77,	395.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYWB22 0.00)	1ST HIGHEST VALUE IS	87.12813 AT (	468330.00, 3769866.69, 311.33, 395.00,	
DC	2ND HIGHEST VALUE IS	78.62455 AT (	468330.00, 3769891.69, 310.66, 395.00,	
0.00)	DC	3RD HIGHEST VALUE IS	66.26988 AT (	468355.00, 3769866.69, 311.16, 395.00,
0.00)	DC	4TH HIGHEST VALUE IS	64.99764 AT (	468330.00, 3769916.69, 310.32, 395.00,
0.00)	DC	5TH HIGHEST VALUE IS	63.45901 AT (	468355.00, 3769891.69, 310.49, 395.00,
0.00)	DC	6TH HIGHEST VALUE IS	56.09142 AT (	468355.00, 3769916.69, 310.00, 395.00,
0.00)	DC	7TH HIGHEST VALUE IS	51.60788 AT (	468380.00, 3769866.69, 310.77, 395.00,
0.00)	DC	8TH HIGHEST VALUE IS	51.42577 AT (	468380.00, 3769891.69, 310.32, 395.00,
0.00)	DC	9TH HIGHEST VALUE IS	51.16591 AT (	468330.00, 3769941.69, 310.32, 395.00,
0.00)	DC	10TH HIGHEST VALUE IS	47.84986 AT (	468380.00, 3769916.69, 310.00, 395.00,
0.00)	DC			
FWYWB23 0.00)	1ST HIGHEST VALUE IS	115.52402 AT (	468330.00, 3769866.69, 311.33, 395.00,	
DC	2ND HIGHEST VALUE IS	94.07543 AT (	468330.00, 3769891.69, 310.66, 395.00,	
0.00)	DC	3RD HIGHEST VALUE IS	86.46721 AT (	468355.00, 3769866.69, 311.16, 395.00,
0.00)	DC	4TH HIGHEST VALUE IS	77.34506 AT (	468355.00, 3769891.69, 310.49, 395.00,
0.00)	DC	5TH HIGHEST VALUE IS	70.70522 AT (	468330.00, 3769916.69, 310.32, 395.00,
0.00)	DC	6TH HIGHEST VALUE IS	65.89338 AT (	468380.00, 3769866.69, 310.77, 395.00,
0.00)	DC	7TH HIGHEST VALUE IS	63.48253 AT (	468355.00, 3769916.69, 310.00, 395.00,
0.00)	DC	8TH HIGHEST VALUE IS	62.78610 AT (	468380.00, 3769891.69, 310.32, 395.00,
0.00)	DC	9TH HIGHEST VALUE IS	55.31151 AT (	468380.00, 3769916.69, 310.00, 395.00,
0.00)	DC	10TH HIGHEST VALUE IS	51.82930 AT (	468330.00, 3769941.69, 310.32, 395.00,
0.00)	DC			
FWYWB24 0.00)	1ST HIGHEST VALUE IS	151.52392 AT (	468330.00, 3769866.69, 311.33, 395.00,	
DC				

0.00)	DC	2ND HIGHEST VALUE IS	114.24226 AT (	468355.00,	3769866.69,	311.16,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	106.50143 AT (	468330.00,	3769891.69,	310.66,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	92.20550 AT (	468355.00,	3769891.69,	310.49,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	85.84138 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	76.37370 AT (	468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	71.99205 AT (	468330.00,	3769916.69,	310.32,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	68.88208 AT (	468355.00,	3769916.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	65.61078 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	62.50321 AT (	468380.00,	3769916.69,	310.00,	395.00,
FWYWB25	DC	1ST HIGHEST VALUE IS	182.93718 AT (	468330.00,	3769866.69,	311.33,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	147.79473 AT (	468355.00,	3769866.69,	311.16,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	112.33734 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	108.07637 AT (	468330.00,	3769891.69,	310.66,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	103.19771 AT (	468355.00,	3769891.69,	310.49,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	90.20625 AT (	468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	84.90784 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	75.12996 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	69.60560 AT (468355.00,	3769916.69,	310.00,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	67.43315 AT (468330.00,	3769916.69,	310.32,	395.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,	
FWYWB26 0.00)	1ST HIGHEST VALUE IS	183.53824 AT (	468330.00,	3769866.69, 311.33, 395.00,	
DC	2ND HIGHEST VALUE IS	176.23227 AT (	468355.00,	3769866.69, 311.16, 395.00,	
0.00)	DC	3RD HIGHEST VALUE IS	144.06219 AT (	468380.00,	3769866.69, 310.77, 395.00,
0.00)	DC	4TH HIGHEST VALUE IS	110.56522 AT (	468405.00,	3769866.69, 310.27, 395.00,
0.00)	DC	5TH HIGHEST VALUE IS	104.21649 AT (	468355.00,	3769891.69, 310.49, 395.00,
0.00)	DC	6TH HIGHEST VALUE IS	100.36959 AT (	468380.00,	3769891.69, 310.32, 395.00,
0.00)	DC	7TH HIGHEST VALUE IS	97.42263 AT (	468330.00,	3769891.69, 310.66, 395.00,
0.00)	DC	8TH HIGHEST VALUE IS	88.32085 AT (	468405.00,	3769891.69, 310.00, 395.00,
0.00)	DC	9TH HIGHEST VALUE IS	84.46618 AT (	468430.00,	3769866.69, 310.00, 395.00,
0.00)	DC	10TH HIGHEST VALUE IS	74.40947 AT (	468430.00,	3769891.69, 309.99, 395.00,
0.00)	DC				
FWYWB27 0.00)	1ST HIGHEST VALUE IS	173.60057 AT (	468355.00,	3769866.69, 311.16, 395.00,	
DC	2ND HIGHEST VALUE IS	168.84087 AT (	468380.00,	3769866.69, 310.77, 395.00,	
0.00)	DC	3RD HIGHEST VALUE IS	151.90117 AT (	468330.00,	3769866.69, 311.33, 395.00,
0.00)	DC	4TH HIGHEST VALUE IS	139.95724 AT (	468405.00,	3769866.69, 310.27, 395.00,
0.00)	DC	5TH HIGHEST VALUE IS	109.08258 AT (	468430.00,	3769866.69, 310.00, 395.00,
0.00)	DC	6TH HIGHEST VALUE IS	100.45381 AT (	468380.00,	3769891.69, 310.32, 395.00,
0.00)	DC	7TH HIGHEST VALUE IS	97.30771 AT (	468405.00,	3769891.69, 310.00, 395.00,
0.00)	DC	8TH HIGHEST VALUE IS	93.62858 AT (	468355.00,	3769891.69, 310.49, 395.00,
0.00)	DC	9TH HIGHEST VALUE IS	86.78548 AT (	468430.00,	3769891.69, 309.99, 395.00,
0.00)	DC	10TH HIGHEST VALUE IS	84.32039 AT (	468330.00,	3769891.69, 310.66, 395.00,
0.00)	DC				
FWYWB28 0.00)	1ST HIGHEST VALUE IS	163.81745 AT (	468380.00,	3769866.69, 310.77, 395.00,	
DC					

0.00)	DC	2ND HIGHEST VALUE IS	160.50796 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	143.97616 AT (	468355.00,	3769866.69,	311.16,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	135.81274 AT (	468430.00,	3769866.69,	310.00,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	123.66423 AT (	468330.00,	3769866.69,	311.33,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	96.20234 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	94.41928 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	89.66902 AT (	468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	80.96571 AT (	468355.00,	3769891.69,	310.49,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	73.27794 AT (	468330.00,	3769891.69,	310.66,	395.00,
FWYWB29	DC	1ST HIGHEST VALUE IS	155.35179 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	154.77566 AT (	468430.00,	3769866.69,	310.00,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	136.63689 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	117.63968 AT (	468355.00,	3769866.69,	311.16,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	93.59528 AT (	468330.00,	3769866.69,	311.33,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	93.31878 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	86.36237 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	78.31916 AT (	468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	70.97842 AT (468355.00,	3769891.69,	310.49,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	61.33252 AT (468330.00,	3769891.69,	310.66,	395.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,	
FWYWB30 0.00)	1ST HIGHEST VALUE IS	147.69589 AT (	468430.00,	3769866.69, 310.00, 395.00,	
DC	2ND HIGHEST VALUE IS	129.89271 AT (	468405.00,	3769866.69, 310.27, 395.00,	
0.00)	DC	3RD HIGHEST VALUE IS	112.45836 AT (	468380.00,	3769866.69, 310.77, 395.00,
0.00)	DC	4TH HIGHEST VALUE IS	90.07316 AT (	468355.00,	3769866.69, 311.16, 395.00,
0.00)	DC	5TH HIGHEST VALUE IS	83.38996 AT (	468430.00,	3769891.69, 309.99, 395.00,
0.00)	DC	6TH HIGHEST VALUE IS	75.46443 AT (	468405.00,	3769891.69, 310.00, 395.00,
0.00)	DC	7TH HIGHEST VALUE IS	68.54042 AT (	468380.00,	3769891.69, 310.32, 395.00,
0.00)	DC	8TH HIGHEST VALUE IS	67.83885 AT (	468330.00,	3769866.69, 311.33, 395.00,
0.00)	DC	9TH HIGHEST VALUE IS	59.49164 AT (	468355.00,	3769891.69, 310.49, 395.00,
0.00)	DC	10TH HIGHEST VALUE IS	53.57011 AT (	468430.00,	3769916.69, 309.99, 395.00,
0.00)	DC				
FWYWB31 0.00)	1ST HIGHEST VALUE IS	123.63863 AT (	468430.00,	3769866.69, 310.00, 395.00,	
DC	2ND HIGHEST VALUE IS	107.85431 AT (	468405.00,	3769866.69, 310.27, 395.00,	
0.00)	DC	3RD HIGHEST VALUE IS	87.22094 AT (	468380.00,	3769866.69, 310.77, 395.00,
0.00)	DC	4TH HIGHEST VALUE IS	72.79472 AT (	468430.00,	3769891.69, 309.99, 395.00,
0.00)	DC	5TH HIGHEST VALUE IS	66.23891 AT (	468405.00,	3769891.69, 310.00, 395.00,
0.00)	DC	6TH HIGHEST VALUE IS	66.15182 AT (	468355.00,	3769866.69, 311.16, 395.00,
0.00)	DC	7TH HIGHEST VALUE IS	57.74301 AT (	468380.00,	3769891.69, 310.32, 395.00,
0.00)	DC	8TH HIGHEST VALUE IS	49.60397 AT (	468330.00,	3769866.69, 311.33, 395.00,
0.00)	DC	9TH HIGHEST VALUE IS	48.39789 AT (	468430.00,	3769916.69, 309.99, 395.00,
0.00)	DC	10TH HIGHEST VALUE IS	48.01848 AT (	468355.00,	3769891.69, 310.49, 395.00,
0.00)	DC				
FWYWB32 0.00)	1ST HIGHEST VALUE IS	103.24698 AT (	468430.00,	3769866.69, 310.00, 395.00,	
DC					

0.00)	DC	2ND HIGHEST VALUE IS	84.32096 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	64.46607 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	64.04052 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	56.06264 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	48.60758 AT (	468355.00,	3769866.69,	311.16,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	46.80578 AT (	468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	43.88078 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	39.84959 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	38.12262 AT (	468355.00,	3769891.69,	310.49,	395.00,
FWYWB33	DC	1ST HIGHEST VALUE IS	81.18761 AT (	468430.00,	3769866.69,	310.00,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	62.78702 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	54.27297 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	47.64317 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	45.62227 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	38.78161 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	37.31557 AT (	468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	36.56197 AT (	468355.00,	3769866.69,	311.16,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	34.18860 AT (468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	30.34786 AT (468355.00,	3769891.69,	310.49,	395.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYWB34	1ST HIGHEST VALUE IS		61.27422 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		46.89174 AT (	468405.00, 3769866.69, 310.27, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		44.52213 AT (	468430.00, 3769891.69, 309.99, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		36.66725 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		36.12014 AT (	468380.00, 3769866.69, 310.77, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		33.45446 AT (	468430.00, 3769916.69, 309.99, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		29.91122 AT (	468380.00, 3769891.69, 310.32, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		28.91078 AT (	468405.00, 3769916.69, 310.00, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		28.38407 AT (	468355.00, 3769866.69, 311.16, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		25.97246 AT (	468430.00, 3769941.69, 309.99, 395.00,
0.00) DC				
FWYWB35	1ST HIGHEST VALUE IS		46.56197 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		36.33588 AT (	468430.00, 3769891.69, 309.99, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		35.99450 AT (	468405.00, 3769866.69, 310.27, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		29.75116 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		28.66227 AT (	468430.00, 3769916.69, 309.99, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		28.30160 AT (	468380.00, 3769866.69, 310.77, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		24.50156 AT (	468405.00, 3769916.69, 310.00, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		24.39762 AT (	468380.00, 3769891.69, 310.32, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		23.00193 AT (	468430.00, 3769941.69, 309.99, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		22.74346 AT (	468355.00, 3769866.69, 311.16, 395.00,
0.00) DC				
FWYWB36	1ST HIGHEST VALUE IS		35.34841 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC				

0.00)	DC	2ND HIGHEST VALUE IS	29.17014 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	27.93643 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	24.04439 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	24.04183 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	22.49368 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	20.52674 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	19.95743 AT (	468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	19.93993 AT (	468430.00,	3769941.69,	309.99,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	18.47644 AT (	468355.00,	3769866.69,	311.16,	395.00,
FWYWB37	DC	1ST HIGHEST VALUE IS	27.64022 AT (	468430.00,	3769866.69,	310.00,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	23.73711 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	22.33119 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	20.25951 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	19.77616 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	18.36165 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	17.35376 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	17.28947 AT (	468430.00,	3769941.69,	309.99,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	16.62817 AT (468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	15.36569 AT (468355.00,	3769866.69,	311.16,	395.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYWB38 0.00)	1ST HIGHEST VALUE IS	22.12545 AT (	468430.00,	3769866.69, 310.00, 395.00,
DC	2ND HIGHEST VALUE IS	19.55550 AT (	468430.00,	3769891.69, 309.99, 395.00,
0.00)	DC	3RD HIGHEST VALUE IS	18.24160 AT (	468405.00, 3769866.69, 310.27, 395.00,
0.00)	DC	4TH HIGHEST VALUE IS	17.15360 AT (	468430.00, 3769916.69, 309.99, 395.00,
0.00)	DC	5TH HIGHEST VALUE IS	16.49344 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00)	DC	6TH HIGHEST VALUE IS	15.27580 AT (	468380.00, 3769866.69, 310.77, 395.00,
0.00)	DC	7TH HIGHEST VALUE IS	14.99685 AT (	468430.00, 3769941.69, 309.99, 395.00,
0.00)	DC	8TH HIGHEST VALUE IS	14.78259 AT (	468405.00, 3769916.69, 310.00, 395.00,
0.00)	DC	9TH HIGHEST VALUE IS	14.04591 AT (	468380.00, 3769891.69, 310.32, 395.00,
0.00)	DC	10TH HIGHEST VALUE IS	13.18556 AT (	468405.00, 3769941.69, 310.00, 395.00,
0.00)	DC			
FWYWB39 0.00)	1ST HIGHEST VALUE IS	18.09513 AT (	468430.00,	3769866.69, 310.00, 395.00,
DC	2ND HIGHEST VALUE IS	16.33208 AT (	468430.00,	3769891.69, 309.99, 395.00,
0.00)	DC	3RD HIGHEST VALUE IS	15.18669 AT (	468405.00, 3769866.69, 310.27, 395.00,
0.00)	DC	4TH HIGHEST VALUE IS	14.63197 AT (	468430.00, 3769916.69, 309.99, 395.00,
0.00)	DC	5TH HIGHEST VALUE IS	13.94486 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00)	DC	6TH HIGHEST VALUE IS	13.04875 AT (	468430.00, 3769941.69, 309.99, 395.00,
0.00)	DC	7TH HIGHEST VALUE IS	12.91900 AT (	468380.00, 3769866.69, 310.77, 395.00,
0.00)	DC	8TH HIGHEST VALUE IS	12.70350 AT (	468405.00, 3769916.69, 310.00, 395.00,
0.00)	DC	9TH HIGHEST VALUE IS	12.01745 AT (	468380.00, 3769891.69, 310.32, 395.00,
0.00)	DC	10TH HIGHEST VALUE IS	11.61390 AT (	468430.00, 3769966.69, 309.99, 395.00,
0.00)	DC			
FWYWB40 0.00)	1ST HIGHEST VALUE IS	15.10080 AT (	468430.00,	3769866.69, 310.00, 395.00,
DC				

0.00)	DC	2ND HIGHEST VALUE IS	13.84269 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	12.86863 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	12.60443 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	11.95476 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	11.42155 AT (	468430.00,	3769941.69,	309.99,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	11.09508 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	11.02852 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	10.41334 AT (	468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	10.31859 AT (	468430.00,	3769966.69,	309.99,	395.00,
FWYWB41	DC	1ST HIGHEST VALUE IS	12.81416 AT (	468430.00,	3769866.69,	310.00,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	11.88605 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	11.06415 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	10.96007 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	10.37169 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	10.05971 AT (	468430.00,	3769941.69,	309.99,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	9.66336 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	9.65008 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	9.20231 AT (468430.00,	3769966.69,	309.99,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	9.12123 AT (468380.00,	3769891.69,	310.32,	395.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYWB42	1ST HIGHEST VALUE IS		11.00773 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		10.30556 AT (	468430.00, 3769891.69, 309.99, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		9.61361 AT (	468405.00, 3769866.69, 310.27, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		9.59844 AT (	468430.00, 3769916.69, 309.99, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		9.07787 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		8.90230 AT (	468430.00, 3769941.69, 309.99, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		8.52577 AT (	468405.00, 3769916.69, 310.00, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		8.46959 AT (	468380.00, 3769866.69, 310.77, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		8.22904 AT (	468430.00, 3769966.69, 309.99, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		8.05230 AT (	468380.00, 3769891.69, 310.32, 395.00,
0.00) DC				
FWYWB43	1ST HIGHEST VALUE IS		9.57169 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		9.02746 AT (	468430.00, 3769891.69, 309.99, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		8.47578 AT (	468430.00, 3769916.69, 309.99, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		8.44259 AT (	468405.00, 3769866.69, 310.27, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		8.01927 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		7.92790 AT (	468430.00, 3769941.69, 309.99, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		7.58061 AT (	468405.00, 3769916.69, 310.00, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		7.50317 AT (	468380.00, 3769866.69, 310.77, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		7.39205 AT (	468430.00, 3769966.69, 309.99, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		7.16785 AT (	468380.00, 3769891.69, 310.32, 395.00,
0.00) DC				
FWYWB44	1ST HIGHEST VALUE IS		8.41380 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC				

0.00)	DC	2ND HIGHEST VALUE IS	7.98291 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	7.54403 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	7.48541 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	7.14455 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	7.10543 AT (	468430.00,	3769941.69,	309.99,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	6.78994 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	6.70363 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	6.67298 AT (	468430.00,	3769966.69,	309.99,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	6.43351 AT (	468405.00,	3769941.69,	310.00,	395.00,
FWYWB45	DC	1ST HIGHEST VALUE IS	7.43851 AT (	468430.00,	3769866.69,	310.00,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	7.08851 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	6.73169 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	6.67048 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	6.38932 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	6.37409 AT (	468430.00,	3769941.69,	309.99,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	6.09682 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	6.01988 AT (	468430.00,	3769966.69,	309.99,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	6.01633 AT (468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	5.80232 AT (468405.00,	3769941.69,	310.00,	395.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYWB46	1ST HIGHEST VALUE IS		6.63111 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		6.34260 AT (	468430.00, 3769891.69, 309.99, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		6.04835 AT (	468430.00, 3769916.69, 309.99, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		5.98797 AT (	468405.00, 3769866.69, 310.27, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		5.75309 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		5.75286 AT (	468430.00, 3769941.69, 309.99, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		5.50877 AT (	468405.00, 3769916.69, 310.00, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		5.45918 AT (	468430.00, 3769966.69, 309.99, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		5.43465 AT (	468380.00, 3769866.69, 310.77, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		5.26250 AT (	468405.00, 3769941.69, 310.00, 395.00,
0.00) DC				
FWYWB47	1ST HIGHEST VALUE IS		5.94018 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		5.69831 AT (	468430.00, 3769891.69, 309.99, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		5.45193 AT (	468430.00, 3769916.69, 309.99, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		5.20440 AT (	468430.00, 3769941.69, 309.99, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		5.19911 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		4.99216 AT (	468405.00, 3769916.69, 310.00, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		4.95796 AT (	468430.00, 3769966.69, 309.99, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		4.78361 AT (	468405.00, 3769941.69, 310.00, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		4.58937 AT (	468380.00, 3769916.69, 310.00, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		4.57527 AT (	468405.00, 3769966.69, 310.00, 395.00,
0.00) DC				
FWYWB48	1ST HIGHEST VALUE IS		5.36360 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC				

0.00)	DC	2ND HIGHEST VALUE IS	5.15823 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	4.94930 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	4.73936 AT (	468430.00,	3769941.69,	309.99,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	4.73064 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	4.55336 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	4.53006 AT (	468430.00,	3769966.69,	309.99,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	4.37475 AT (	468405.00,	3769941.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	4.20419 AT (	468380.00,	3769916.69,	310.00,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	4.19621 AT (	468405.00,	3769966.69,	310.00,	395.00,
FWYWB49	DC	1ST HIGHEST VALUE IS	4.87183 AT (	468430.00,	3769866.69,	310.00,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	4.69578 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	4.51689 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	4.33713 AT (	468430.00,	3769941.69,	309.99,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	4.32641 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	4.17324 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	4.15776 AT (	468430.00,	3769966.69,	309.99,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	4.01898 AT (	468405.00,	3769941.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	3.86836 AT (468380.00,	3769916.69,	310.00,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	3.86470 AT (468405.00,	3769966.69,	310.00,	395.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYWB50	1ST HIGHEST VALUE IS		4.44970 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		4.29744 AT (	468430.00, 3769891.69, 309.99, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		4.14289 AT (	468430.00, 3769916.69, 309.99, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		3.98761 AT (	468430.00, 3769941.69, 309.99, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		3.97581 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		3.84240 AT (	468405.00, 3769916.69, 310.00, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		3.83256 AT (	468430.00, 3769966.69, 309.99, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		3.70810 AT (	468405.00, 3769941.69, 310.00, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		3.57435 AT (	468380.00, 3769916.69, 310.00, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		3.57374 AT (	468405.00, 3769966.69, 310.00, 395.00,
0.00) DC				
FWYWB51	1ST HIGHEST VALUE IS		4.08140 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		3.94798 AT (	468430.00, 3769891.69, 309.99, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		3.81283 AT (	468430.00, 3769916.69, 309.99, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		3.67715 AT (	468430.00, 3769941.69, 309.99, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		3.66655 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		3.54902 AT (	468405.00, 3769916.69, 310.00, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		3.54166 AT (	468430.00, 3769966.69, 309.99, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		3.43083 AT (	468405.00, 3769941.69, 310.00, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		3.31264 AT (	468405.00, 3769966.69, 310.00, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		3.31246 AT (	468380.00, 3769916.69, 310.00, 395.00,
0.00) DC				
FWYWB52	1ST HIGHEST VALUE IS		3.75959 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC				

0.00)	DC	2ND HIGHEST VALUE IS	3.64195 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	3.52301 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	3.40369 AT (	468430.00,	3769941.69,	309.99,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	3.39413 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	3.29000 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	3.28453 AT (	468430.00,	3769966.69,	309.99,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	3.18539 AT (	468405.00,	3769941.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	3.08080 AT (	468405.00,	3769966.69,	310.00,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	3.08006 AT (	468380.00,	3769916.69,	310.00,	395.00,
FWYWB53	DC	1ST HIGHEST VALUE IS	3.47648 AT (	468430.00,	3769866.69,	310.00,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	3.37219 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	3.26691 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	3.16135 AT (	468430.00,	3769941.69,	309.99,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	3.15271 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	3.05997 AT (	468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	3.05596 AT (	468430.00,	3769966.69,	309.99,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	2.96689 AT (	468405.00,	3769941.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	2.87385 AT (468405.00,	3769966.69,	310.00,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	2.87271 AT (468380.00,	3769916.69,	310.00,	395.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
FWYWB54	1ST HIGHEST VALUE IS		3.22631 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		3.13336 AT (	468430.00, 3769891.69, 309.99, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		3.03966 AT (	468430.00, 3769916.69, 309.99, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		2.94578 AT (	468430.00, 3769941.69, 309.99, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		2.93793 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		2.85493 AT (	468405.00, 3769916.69, 310.00, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		2.85204 AT (	468430.00, 3769966.69, 309.99, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		2.77170 AT (	468405.00, 3769941.69, 310.00, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		2.68852 AT (	468405.00, 3769966.69, 310.00, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		2.68709 AT (	468380.00, 3769916.69, 310.00, 395.00,
0.00) DC				
FWYWB55	1ST HIGHEST VALUE IS		3.00545 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		2.92215 AT (	468430.00, 3769891.69, 309.99, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		2.83828 AT (	468430.00, 3769916.69, 309.99, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		2.82012 AT (	468405.00, 3769866.69, 310.27, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		2.75430 AT (	468430.00, 3769941.69, 309.99, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		2.74713 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		2.67247 AT (	468405.00, 3769916.69, 310.00, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		2.67046 AT (	468430.00, 3769966.69, 309.99, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		2.59764 AT (	468405.00, 3769941.69, 310.00, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		2.58688 AT (	468380.00, 3769891.69, 310.32, 395.00,
0.00) DC				
RAIL1	1ST HIGHEST VALUE IS		26.89282 AT (	468430.00, 3769866.69, 310.00, 395.00,
0.00) DC				

0.00)	DC	2ND HIGHEST VALUE IS	26.83208 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	26.08467 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	24.87451 AT (	468355.00,	3769866.69,	311.16,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	23.56637 AT (	468330.00,	3769866.69,	311.33,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	21.81449 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	21.35480 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	20.54443 AT (	468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	19.59905 AT (	468355.00,	3769891.69,	310.49,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	18.71313 AT (	468330.00,	3769891.69,	310.66,	395.00,
RAIL2	DC	1ST HIGHEST VALUE IS	33.88390 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	33.43407 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	33.22019 AT (	468430.00,	3769866.69,	310.00,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	32.01578 AT (	468355.00,	3769866.69,	311.16,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	30.17146 AT (	468330.00,	3769866.69,	311.33,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	26.76037 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	26.52057 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	25.65665 AT (	468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	24.43067 AT (468355.00,	3769891.69,	310.49,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	23.18199 AT (468330.00,	3769891.69,	310.66,	395.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
RAIL3 0.00)	1ST HIGHEST VALUE IS	DC	44.57443 AT (468380.00, 3769866.69, 310.77, 395.00,	
0.00)	2ND HIGHEST VALUE IS	DC	43.77094 AT (468355.00, 3769866.69, 311.16, 395.00,	
0.00)	3RD HIGHEST VALUE IS	DC	43.45148 AT (468405.00, 3769866.69, 310.27, 395.00,	
0.00)	4TH HIGHEST VALUE IS	DC	41.40466 AT (468330.00, 3769866.69, 311.33, 395.00,	
0.00)	5TH HIGHEST VALUE IS	DC	40.79211 AT (468430.00, 3769866.69, 310.00, 395.00,	
0.00)	6TH HIGHEST VALUE IS	DC	33.87266 AT (468405.00, 3769891.69, 310.00, 395.00,	
0.00)	7TH HIGHEST VALUE IS	DC	33.50381 AT (468380.00, 3769891.69, 310.32, 395.00,	
0.00)	8TH HIGHEST VALUE IS	DC	33.19669 AT (468430.00, 3769891.69, 309.99, 395.00,	
0.00)	9TH HIGHEST VALUE IS	DC	32.15714 AT (468355.00, 3769891.69, 310.49, 395.00,	
0.00)	10TH HIGHEST VALUE IS	DC	30.35920 AT (468330.00, 3769891.69, 310.66, 395.00,	
RAIL4 0.00)	1ST HIGHEST VALUE IS	DC	61.18017 AT (468355.00, 3769866.69, 311.16, 395.00,	
0.00)	2ND HIGHEST VALUE IS	DC	60.15018 AT (468330.00, 3769866.69, 311.33, 395.00,	
0.00)	3RD HIGHEST VALUE IS	DC	58.61018 AT (468380.00, 3769866.69, 310.77, 395.00,	
0.00)	4TH HIGHEST VALUE IS	DC	53.39545 AT (468405.00, 3769866.69, 310.27, 395.00,	
0.00)	5TH HIGHEST VALUE IS	DC	47.28934 AT (468430.00, 3769866.69, 310.00, 395.00,	
0.00)	6TH HIGHEST VALUE IS	DC	44.13284 AT (468380.00, 3769891.69, 310.32, 395.00,	
0.00)	7TH HIGHEST VALUE IS	DC	43.77110 AT (468355.00, 3769891.69, 310.49, 395.00,	
0.00)	8TH HIGHEST VALUE IS	DC	42.62274 AT (468405.00, 3769891.69, 310.00, 395.00,	
0.00)	9TH HIGHEST VALUE IS	DC	41.75106 AT (468330.00, 3769891.69, 310.66, 395.00,	
0.00)	10TH HIGHEST VALUE IS	DC	39.85989 AT (468430.00, 3769891.69, 309.99, 395.00,	
RAIL5 0.00)	1ST HIGHEST VALUE IS	DC	88.94836 AT (468330.00, 3769866.69, 311.33, 395.00,	

0.00)	DC	2ND HIGHEST VALUE IS	82.41296 AT (	468355.00,	3769866.69,	311.16,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	71.81051 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	60.60160 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	59.72621 AT (	468355.00,	3769891.69,	310.49,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	59.70007 AT (	468330.00,	3769891.69,	310.66,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	56.46141 AT (	468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	51.11367 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	50.69327 AT (	468430.00,	3769866.69,	310.00,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	45.21474 AT (	468430.00,	3769891.69,	309.99,	395.00,
RAIL6	DC	1ST HIGHEST VALUE IS	123.64306 AT (	468330.00,	3769866.69,	311.33,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	100.12180 AT (	468355.00,	3769866.69,	311.16,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	85.54889 AT (	468330.00,	3769891.69,	310.66,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	79.06657 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	77.96074 AT (	468355.00,	3769891.69,	310.49,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	67.55405 AT (	468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	62.47710 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	58.70680 AT (	468330.00,	3769916.69,	310.32,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	57.81197 AT (468355.00,	3769916.69,	310.00,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	57.01966 AT (468405.00,	3769891.69,	310.00,	395.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
RAIL7	1ST HIGHEST VALUE IS		143.54535 AT (	468330.00, 3769866.69, 311.33, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		113.44096 AT (	468330.00, 3769891.69, 310.66, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		103.27294 AT (	468355.00, 3769866.69, 311.16, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		91.63658 AT (	468355.00, 3769891.69, 310.49, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		81.64482 AT (	468330.00, 3769916.69, 310.32, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		76.22708 AT (	468380.00, 3769866.69, 310.77, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		73.34803 AT (	468355.00, 3769916.69, 310.00, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		72.84567 AT (	468380.00, 3769891.69, 310.32, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		63.42290 AT (	468380.00, 3769916.69, 310.00, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		58.00917 AT (	468405.00, 3769891.69, 310.00, 395.00,
0.00) DC				
RAIL8	1ST HIGHEST VALUE IS		130.45632 AT (	468330.00, 3769866.69, 311.33, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		127.23112 AT (	468330.00, 3769891.69, 310.66, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		104.22318 AT (	468330.00, 3769916.69, 310.32, 395.00,
0.00) DC	4TH HIGHEST VALUE IS		92.94161 AT (	468355.00, 3769891.69, 310.49, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		89.55725 AT (	468355.00, 3769866.69, 311.16, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		84.05312 AT (	468355.00, 3769916.69, 310.00, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		77.65449 AT (	468330.00, 3769941.69, 310.32, 395.00,
0.00) DC	8TH HIGHEST VALUE IS		69.74651 AT (	468380.00, 3769891.69, 310.32, 395.00,
0.00) DC	9TH HIGHEST VALUE IS		69.24201 AT (	468355.00, 3769941.69, 310.00, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		67.38600 AT (	468380.00, 3769916.69, 310.00, 395.00,
0.00) DC				
RAIL9	1ST HIGHEST VALUE IS		118.54537 AT (	468330.00, 3769891.69, 310.66, 395.00,
0.00) DC				

0.00)	DC	2ND HIGHEST VALUE IS	117.59284 AT (	468330.00,	3769916.69,	310.32,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	98.50293 AT (	468330.00,	3769941.69,	310.32,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	98.34493 AT (	468330.00,	3769866.69,	311.33,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	86.44133 AT (	468355.00,	3769916.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	82.71628 AT (	468355.00,	3769891.69,	310.49,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	79.63951 AT (	468355.00,	3769941.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	74.42734 AT (	468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	69.41113 AT (	468355.00,	3769866.69,	311.16,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	66.27888 AT (	468355.00,	3769966.69,	310.00,	395.00,
RAIL10	DC	1ST HIGHEST VALUE IS	112.52296 AT (	468330.00,	3769941.69,	310.32,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	111.90254 AT (	468330.00,	3769916.69,	310.32,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	95.07028 AT (	468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	92.15180 AT (	468330.00,	3769891.69,	310.66,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	83.06792 AT (	468355.00,	3769941.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	78.46148 AT (	468355.00,	3769916.69,	310.00,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	76.93827 AT (	468355.00,	3769966.69,	310.00,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	72.45873 AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC	9TH HIGHEST VALUE IS	68.44168 AT (468330.00,	3769866.69,	311.33,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	65.68901 AT (468355.00,	3769891.69,	310.49,	395.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
RAIL11	1ST HIGHEST VALUE IS		109.71318 AT (	468330.00, 3769966.69, 310.32, 395.00,
0.00) DC	2ND HIGHEST VALUE IS		108.73068 AT (	468330.00, 3769941.69, 310.32, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		93.24450 AT (	468330.00, 3769991.69, 310.32, 377.00,
0.00) DC	4TH HIGHEST VALUE IS		88.91347 AT (	468330.00, 3769916.69, 310.32, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		81.16873 AT (	468355.00, 3769966.69, 310.00, 395.00,
0.00) DC	6TH HIGHEST VALUE IS		76.54464 AT (	468355.00, 3769941.69, 310.00, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		75.45325 AT (	468355.00, 3769991.69, 310.00, 394.00,
0.00) DC	8TH HIGHEST VALUE IS		72.13895 AT (	468330.00, 3770016.69, 310.78, 377.00,
0.00) DC	9TH HIGHEST VALUE IS		65.77302 AT (	468330.00, 3769891.69, 310.66, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		63.86523 AT (	468355.00, 3770016.69, 310.33, 377.00,
0.00) DC				
RAIL12	1ST HIGHEST VALUE IS		109.71318 AT (	468330.00, 3769991.69, 310.32, 377.00,
0.00) DC	2ND HIGHEST VALUE IS		108.73068 AT (	468330.00, 3769966.69, 310.32, 395.00,
0.00) DC	3RD HIGHEST VALUE IS		94.16895 AT (	468330.00, 3770016.69, 310.78, 377.00,
0.00) DC	4TH HIGHEST VALUE IS		88.91347 AT (	468330.00, 3769941.69, 310.32, 395.00,
0.00) DC	5TH HIGHEST VALUE IS		81.16873 AT (	468355.00, 3769991.69, 310.00, 394.00,
0.00) DC	6TH HIGHEST VALUE IS		76.54464 AT (	468355.00, 3769966.69, 310.00, 395.00,
0.00) DC	7TH HIGHEST VALUE IS		75.94243 AT (	468355.00, 3770016.69, 310.33, 377.00,
0.00) DC	8TH HIGHEST VALUE IS		72.69201 AT (	468330.00, 3770041.69, 311.16, 377.00,
0.00) DC	9TH HIGHEST VALUE IS		65.29150 AT (	468330.00, 3769916.69, 310.32, 395.00,
0.00) DC	10TH HIGHEST VALUE IS		64.36603 AT (	468355.00, 3770041.69, 310.75, 377.00,
0.00) DC				
RAIL13	1ST HIGHEST VALUE IS		110.85341 AT (	468330.00, 3770016.69, 310.78, 377.00,
0.00) DC				

0.00)	DC	2ND HIGHEST VALUE IS	108.73068 AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC	3RD HIGHEST VALUE IS	94.95440 AT (	468330.00,	3770041.69,	311.16,	377.00,
0.00)	DC	4TH HIGHEST VALUE IS	88.91347 AT (	468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	81.71391 AT (	468355.00,	3770016.69,	310.33,	377.00,
0.00)	DC	6TH HIGHEST VALUE IS	76.57672 AT (	468355.00,	3770041.69,	310.75,	377.00,
0.00)	DC	7TH HIGHEST VALUE IS	76.54464 AT (	468355.00,	3769991.69,	310.00,	394.00,
0.00)	DC	8TH HIGHEST VALUE IS	72.92697 AT (	468330.00,	3770066.69,	311.32,	311.32,
0.00)	DC	9TH HIGHEST VALUE IS	65.29150 AT (	468330.00,	3769941.69,	310.32,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	64.66660 AT (	468355.00,	3770066.69,	311.00,	377.00,
RAIL14	DC	1ST HIGHEST VALUE IS	114.08209 AT (	468330.00,	3770041.69,	311.16,	377.00,
0.00)	DC	2ND HIGHEST VALUE IS	112.64404 AT (	468330.00,	3770016.69,	310.78,	377.00,
0.00)	DC	3RD HIGHEST VALUE IS	96.47930 AT (	468330.00,	3770066.69,	311.32,	311.32,
0.00)	DC	4TH HIGHEST VALUE IS	91.10335 AT (	468330.00,	3769991.69,	310.32,	377.00,
0.00)	DC	5TH HIGHEST VALUE IS	83.96986 AT (	468355.00,	3770041.69,	310.75,	377.00,
0.00)	DC	6TH HIGHEST VALUE IS	78.69716 AT (	468355.00,	3770016.69,	310.33,	377.00,
0.00)	DC	7TH HIGHEST VALUE IS	78.03492 AT (	468355.00,	3770066.69,	311.00,	377.00,
0.00)	DC	8TH HIGHEST VALUE IS	73.59748 AT (	468330.00,	3770091.69,	311.50,	311.50,
0.00)	DC	9TH HIGHEST VALUE IS	66.64159 AT (468330.00,	3769966.69,	310.32,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	65.43086 AT (468355.00,	3770091.69,	311.17,	311.17,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
RAIL15 0.00)	1ST HIGHEST VALUE IS	DC	114.16275 AT (	468330.00, 3770066.69, 311.32, 311.32,
0.00)	2ND HIGHEST VALUE IS	DC	113.31361 AT (	468330.00, 3770041.69, 311.16, 377.00,
0.00)	3RD HIGHEST VALUE IS	DC	96.58683 AT (	468330.00, 3770091.69, 311.50, 311.50,
0.00)	4TH HIGHEST VALUE IS	DC	91.78697 AT (	468330.00, 3770016.69, 310.78, 377.00,
0.00)	5TH HIGHEST VALUE IS	DC	84.18124 AT (	468355.00, 3770066.69, 311.00, 377.00,
0.00)	6TH HIGHEST VALUE IS	DC	79.17729 AT (	468355.00, 3770041.69, 310.75, 377.00,
0.00)	7TH HIGHEST VALUE IS	DC	78.09772 AT (	468355.00, 3770091.69, 311.17, 311.17,
0.00)	8TH HIGHEST VALUE IS	DC	66.45596 AT (	468330.00, 3769991.69, 310.32, 377.00,
0.00)	9TH HIGHEST VALUE IS	DC	65.05853 AT (	468355.00, 3770016.69, 310.33, 377.00,
0.00)	10TH HIGHEST VALUE IS	DC	63.84254 AT (	468380.00, 3770066.69, 310.77, 377.00,
RAIL16 0.00)	1ST HIGHEST VALUE IS	DC	114.54159 AT (	468330.00, 3770091.69, 311.50, 311.50,
0.00)	2ND HIGHEST VALUE IS	DC	113.64079 AT (	468330.00, 3770066.69, 311.32, 311.32,
0.00)	3RD HIGHEST VALUE IS	DC	92.51565 AT (	468330.00, 3770041.69, 311.16, 377.00,
0.00)	4TH HIGHEST VALUE IS	DC	84.41164 AT (	468355.00, 3770091.69, 311.17, 311.17,
0.00)	5TH HIGHEST VALUE IS	DC	79.53055 AT (	468355.00, 3770066.69, 311.00, 377.00,
0.00)	6TH HIGHEST VALUE IS	DC	67.06323 AT (	468330.00, 3770016.69, 310.78, 377.00,
0.00)	7TH HIGHEST VALUE IS	DC	65.56844 AT (	468355.00, 3770041.69, 310.75, 377.00,
0.00)	8TH HIGHEST VALUE IS	DC	64.20412 AT (	468380.00, 3770091.69, 311.11, 311.11,
0.00)	9TH HIGHEST VALUE IS	DC	58.84429 AT (	468380.00, 3770066.69, 310.77, 377.00,
0.00)	10TH HIGHEST VALUE IS	DC	50.09640 AT (	468355.00, 3770016.69, 310.33, 377.00,
RAIL17 0.00)	1ST HIGHEST VALUE IS	DC	113.25944 AT (	468330.00, 3770091.69, 311.50, 311.50,

0.00)	DC	2ND HIGHEST VALUE IS	92.16975 AT (	468330.00,	3770066.69,	311.32,	311.32,
0.00)	DC	3RD HIGHEST VALUE IS	79.27776 AT (	468355.00,	3770091.69,	311.17,	311.17,
0.00)	DC	4TH HIGHEST VALUE IS	67.15172 AT (	468330.00,	3770041.69,	311.16,	377.00,
0.00)	DC	5TH HIGHEST VALUE IS	65.47358 AT (	468355.00,	3770066.69,	311.00,	377.00,
0.00)	DC	6TH HIGHEST VALUE IS	58.86659 AT (	468380.00,	3770091.69,	311.11,	311.11,
0.00)	DC	7TH HIGHEST VALUE IS	50.19425 AT (	468355.00,	3770041.69,	310.75,	377.00,
0.00)	DC	8TH HIGHEST VALUE IS	49.66634 AT (	468330.00,	3770016.69,	310.78,	377.00,
0.00)	DC	9TH HIGHEST VALUE IS	49.20753 AT (	468380.00,	3770066.69,	310.77,	377.00,
0.00)	DC	10TH HIGHEST VALUE IS	39.03416 AT (	468380.00,	3770041.69,	310.33,	377.00,
RAIL18	DC	1ST HIGHEST VALUE IS	91.43182 AT (	468330.00,	3770091.69,	311.50,	311.50,
0.00)	DC	2ND HIGHEST VALUE IS	66.61289 AT (	468330.00,	3770066.69,	311.32,	311.32,
0.00)	DC	3RD HIGHEST VALUE IS	64.99239 AT (	468355.00,	3770091.69,	311.17,	311.17,
0.00)	DC	4TH HIGHEST VALUE IS	49.92162 AT (	468355.00,	3770066.69,	311.00,	377.00,
0.00)	DC	5TH HIGHEST VALUE IS	49.51594 AT (	468330.00,	3770041.69,	311.16,	377.00,
0.00)	DC	6TH HIGHEST VALUE IS	49.03547 AT (	468380.00,	3770091.69,	311.11,	311.11,
0.00)	DC	7TH HIGHEST VALUE IS	38.97264 AT (	468380.00,	3770066.69,	310.77,	377.00,
0.00)	DC	8TH HIGHEST VALUE IS	38.80368 AT (	468330.00,	3770016.69,	310.78,	377.00,
0.00)	DC	9TH HIGHEST VALUE IS	38.57018 AT (468355.00,	3770041.69,	310.75,	377.00,
0.00)	DC	10TH HIGHEST VALUE IS	31.45663 AT (468330.00,	3769991.69,	310.32,	377.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
RAIL19	1ST HIGHEST VALUE IS		66.87295 AT (	468330.00, 3770091.69, 311.50, 311.50,
0.00) DC	2ND HIGHEST VALUE IS		50.08664 AT (	468355.00, 3770091.69, 311.17, 311.17,
0.00) DC	3RD HIGHEST VALUE IS		49.67641 AT (	468330.00, 3770066.69, 311.32, 311.32,
0.00) DC	4TH HIGHEST VALUE IS		39.20607 AT (	468380.00, 3770091.69, 311.11, 311.11,
0.00) DC	5TH HIGHEST VALUE IS		39.08066 AT (	468330.00, 3770041.69, 311.16, 377.00,
0.00) DC	6TH HIGHEST VALUE IS		38.74600 AT (	468355.00, 3770066.69, 311.00, 377.00,
0.00) DC	7TH HIGHEST VALUE IS		31.70778 AT (	468330.00, 3770016.69, 310.78, 377.00,
0.00) DC	8TH HIGHEST VALUE IS		31.21919 AT (	468355.00, 3770041.69, 310.75, 377.00,
0.00) DC	9TH HIGHEST VALUE IS		31.21210 AT (	468380.00, 3770066.69, 310.77, 377.00,
0.00) DC	10TH HIGHEST VALUE IS		26.21863 AT (	468330.00, 3769991.69, 310.32, 377.00,
0.00) DC				
RAIL20	1ST HIGHEST VALUE IS		49.85878 AT (	468330.00, 3770091.69, 311.50, 311.50,
0.00) DC	2ND HIGHEST VALUE IS		39.19863 AT (	468330.00, 3770066.69, 311.32, 311.32,
0.00) DC	3RD HIGHEST VALUE IS		38.86657 AT (	468355.00, 3770091.69, 311.17, 311.17,
0.00) DC	4TH HIGHEST VALUE IS		31.91796 AT (	468330.00, 3770041.69, 311.16, 377.00,
0.00) DC	5TH HIGHEST VALUE IS		31.38835 AT (	468380.00, 3770091.69, 311.11, 311.11,
0.00) DC	6TH HIGHEST VALUE IS		31.35251 AT (	468355.00, 3770066.69, 311.00, 377.00,
0.00) DC	7TH HIGHEST VALUE IS		26.41320 AT (	468330.00, 3770016.69, 310.78, 377.00,
0.00) DC	8TH HIGHEST VALUE IS		26.10024 AT (	468355.00, 3770041.69, 310.75, 377.00,
0.00) DC	9TH HIGHEST VALUE IS		25.76297 AT (	468380.00, 3770066.69, 310.77, 377.00,
0.00) DC	10TH HIGHEST VALUE IS		22.17601 AT (	468330.00, 3769991.69, 310.32, 377.00,
0.00) DC				
RAIL21	1ST HIGHEST VALUE IS		39.58693 AT (	468330.00, 3770091.69, 311.50, 311.50,
0.00) DC				

0.00)	DC	2ND HIGHEST VALUE IS	32.17711 AT (	468330.00,	3770066.69,	311.32,	311.32,
0.00)	DC	3RD HIGHEST VALUE IS	31.61599 AT (	468355.00,	3770091.69,	311.17,	311.17,
0.00)	DC	4TH HIGHEST VALUE IS	26.68897 AT (	468330.00,	3770041.69,	311.16,	377.00,
0.00)	DC	5TH HIGHEST VALUE IS	26.32814 AT (	468355.00,	3770066.69,	311.00,	377.00,
0.00)	DC	6TH HIGHEST VALUE IS	26.02218 AT (	468380.00,	3770091.69,	311.11,	311.11,
0.00)	DC	7TH HIGHEST VALUE IS	22.40565 AT (	468330.00,	3770016.69,	310.78,	377.00,
0.00)	DC	8TH HIGHEST VALUE IS	22.30835 AT (	468355.00,	3770041.69,	310.75,	377.00,
0.00)	DC	9TH HIGHEST VALUE IS	21.98335 AT (	468380.00,	3770066.69,	310.77,	377.00,
0.00)	DC	10TH HIGHEST VALUE IS	19.09228 AT (	468355.00,	3770016.69,	310.33,	377.00,
RAIL22	DC	1ST HIGHEST VALUE IS	32.14904 AT (	468330.00,	3770091.69,	311.50,	311.50,
0.00)	DC	2ND HIGHEST VALUE IS	26.65880 AT (	468330.00,	3770066.69,	311.32,	311.32,
0.00)	DC	3RD HIGHEST VALUE IS	26.30288 AT (	468355.00,	3770091.69,	311.17,	311.17,
0.00)	DC	4TH HIGHEST VALUE IS	22.45604 AT (	468330.00,	3770041.69,	311.16,	377.00,
0.00)	DC	5TH HIGHEST VALUE IS	22.31503 AT (	468355.00,	3770066.69,	311.00,	377.00,
0.00)	DC	6TH HIGHEST VALUE IS	22.01896 AT (	468380.00,	3770091.69,	311.11,	311.11,
0.00)	DC	7TH HIGHEST VALUE IS	19.14319 AT (	468355.00,	3770041.69,	310.75,	377.00,
0.00)	DC	8TH HIGHEST VALUE IS	19.11437 AT (	468330.00,	3770016.69,	310.78,	377.00,
0.00)	DC	9TH HIGHEST VALUE IS	18.95227 AT (468380.00,	3770066.69,	310.77,	377.00,
0.00)	DC	10TH HIGHEST VALUE IS	16.55675 AT (468355.00,	3770016.69,	310.33,	377.00,

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

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

**

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
RAIL23 0.00)	1ST HIGHEST VALUE IS	DC	26.70191 AT (468330.00, 3770091.69, 311.50, 311.50,	
0.00)	2ND HIGHEST VALUE IS	DC	22.48294 AT (468330.00, 3770066.69, 311.32, 311.32,	
0.00)	3RD HIGHEST VALUE IS	DC	22.34509 AT (468355.00, 3770091.69, 311.17, 311.17,	
0.00)	4TH HIGHEST VALUE IS	DC	19.19425 AT (468330.00, 3770041.69, 311.16, 377.00,	
0.00)	5TH HIGHEST VALUE IS	DC	19.18877 AT (468355.00, 3770066.69, 311.00, 377.00,	
0.00)	6TH HIGHEST VALUE IS	DC	19.02065 AT (468380.00, 3770091.69, 311.11, 311.11,	
0.00)	7TH HIGHEST VALUE IS	DC	16.63081 AT (468355.00, 3770041.69, 310.75, 377.00,	
0.00)	8TH HIGHEST VALUE IS	DC	16.55574 AT (468380.00, 3770066.69, 310.77, 377.00,	
0.00)	9TH HIGHEST VALUE IS	DC	16.53667 AT (468330.00, 3770016.69, 310.78, 377.00,	
0.00)	10TH HIGHEST VALUE IS	DC	14.52068 AT (468355.00, 3770016.69, 310.33, 377.00,	
RAIL24 0.00)	1ST HIGHEST VALUE IS	DC	22.44596 AT (468330.00, 3770091.69, 311.50, 311.50,	
0.00)	2ND HIGHEST VALUE IS	DC	19.15964 AT (468330.00, 3770066.69, 311.32, 311.32,	
0.00)	3RD HIGHEST VALUE IS	DC	19.15659 AT (468355.00, 3770091.69, 311.17, 311.17,	
0.00)	4TH HIGHEST VALUE IS	DC	16.62210 AT (468355.00, 3770066.69, 311.00, 377.00,	
0.00)	5TH HIGHEST VALUE IS	DC	16.56655 AT (468380.00, 3770091.69, 311.11, 311.11,	
0.00)	6TH HIGHEST VALUE IS	DC	16.55594 AT (468330.00, 3770041.69, 311.16, 377.00,	
0.00)	7TH HIGHEST VALUE IS	DC	14.54395 AT (468355.00, 3770041.69, 310.75, 377.00,	
0.00)	8TH HIGHEST VALUE IS	DC	14.54164 AT (468380.00, 3770066.69, 310.77, 377.00,	
0.00)	9TH HIGHEST VALUE IS	DC	14.41822 AT (468330.00, 3770016.69, 310.78, 377.00,	
0.00)	10TH HIGHEST VALUE IS	DC	12.84543 AT (468380.00, 3770041.69, 310.33, 377.00,	
RAIL25 0.00)	1ST HIGHEST VALUE IS	DC	19.03986 AT (468330.00, 3770091.69, 311.50, 311.50,	

0.00)	DC	2ND HIGHEST VALUE IS	16.52189 AT (	468355.00,	3770091.69,	311.17,	311.17,
0.00)	DC	3RD HIGHEST VALUE IS	16.45522 AT (	468330.00,	3770066.69,	311.32,	311.32,
0.00)	DC	4TH HIGHEST VALUE IS	14.48957 AT (	468380.00,	3770091.69,	311.11,	311.11,
0.00)	DC	5TH HIGHEST VALUE IS	14.47587 AT (	468355.00,	3770066.69,	311.00,	377.00,
0.00)	DC	6TH HIGHEST VALUE IS	14.37448 AT (	468330.00,	3770041.69,	311.16,	377.00,
0.00)	DC	7TH HIGHEST VALUE IS	12.81683 AT (	468380.00,	3770066.69,	310.77,	377.00,
0.00)	DC	8TH HIGHEST VALUE IS	12.77915 AT (	468355.00,	3770041.69,	310.75,	377.00,
0.00)	DC	9TH HIGHEST VALUE IS	12.64026 AT (	468330.00,	3770016.69,	310.78,	377.00,
0.00)	DC	10TH HIGHEST VALUE IS	11.40425 AT (	468380.00,	3770041.69,	310.33,	377.00,
0.00)	DC						
QUARRY		1ST HIGHEST VALUE IS	1.22380 AT (	468430.00,	3769866.69,	310.00,	395.00,
0.00)	DC	2ND HIGHEST VALUE IS	1.16333 AT (	468405.00,	3769866.69,	310.27,	395.00,
0.00)	DC	3RD HIGHEST VALUE IS	1.13873 AT (	468430.00,	3769891.69,	309.99,	395.00,
0.00)	DC	4TH HIGHEST VALUE IS	1.08376 AT (	468380.00,	3769866.69,	310.77,	395.00,
0.00)	DC	5TH HIGHEST VALUE IS	1.08214 AT (	468405.00,	3769891.69,	310.00,	395.00,
0.00)	DC	6TH HIGHEST VALUE IS	1.05979 AT (	468430.00,	3769916.69,	309.99,	395.00,
0.00)	DC	7TH HIGHEST VALUE IS	1.02742 AT (	468355.00,	3769866.69,	311.16,	395.00,
0.00)	DC	8TH HIGHEST VALUE IS	1.01526 AT (	468330.00,	3769866.69,	311.33,	395.00,
0.00)	DC	9TH HIGHEST VALUE IS	1.01525 AT (	468380.00,	3769891.69,	310.32,	395.00,
0.00)	DC	10TH HIGHEST VALUE IS	1.00367 AT (468405.00,	3769916.69,	310.00,	395.00,
0.00)	DC						

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR

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*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

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

**

NETWORK				DATE		RECEPTOR (XR, YR,	
GROUP ID	ZELEV, ZHILL, ZFLAG)	OF TYPE	AVERAGE CONC	(YYMMDDHH)	GRID-ID		

FWYEB1	HIGH 1ST HIGH VALUE IS	67.47257	ON 12071224: AT (	468330.00,	3769991.69,		
310.32,	377.00, 0.00) DC						
FWYEB2	HIGH 1ST HIGH VALUE IS	71.04435	ON 08071224: AT (	468330.00,	3769941.69,		
310.32,	395.00, 0.00) DC						
FWYEB3	HIGH 1ST HIGH VALUE IS	75.34249	ON 08071224: AT (	468330.00,	3769941.69,		
310.32,	395.00, 0.00) DC						
FWYEB4	HIGH 1ST HIGH VALUE IS	79.80677	ON 08071224: AT (	468330.00,	3769941.69,		
310.32,	395.00, 0.00) DC						
FWYEB5	HIGH 1ST HIGH VALUE IS	84.78744	ON 12071224: AT (	468330.00,	3769966.69,		
310.32,	395.00, 0.00) DC						
FWYEB6	HIGH 1ST HIGH VALUE IS	90.20530	ON 12071224: AT (	468330.00,	3769966.69,		
310.32,	395.00, 0.00) DC						
FWYEB7	HIGH 1ST HIGH VALUE IS	95.95636	ON 10022319: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						
FWYEB8	HIGH 1ST HIGH VALUE IS	102.91309	ON 08071224: AT (	468330.00,	3769916.69,		
310.32,	395.00, 0.00) DC						
FWYEB9	HIGH 1ST HIGH VALUE IS	111.11599	ON 08071224: AT (	468330.00,	3769916.69,		
310.32,	395.00, 0.00) DC						
FWYEB10	HIGH 1ST HIGH VALUE IS	120.86986	ON 10022319: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						
FWYEB11	HIGH 1ST HIGH VALUE IS	132.99968	ON 12083021: AT (	468330.00,	3769891.69,		
310.66,	395.00, 0.00) DC						
FWYEB12	HIGH 1ST HIGH VALUE IS	146.05655	ON 08071622: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						
FWYEB13	HIGH 1ST HIGH VALUE IS	161.45567	ON 08071622: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						
FWYEB14	HIGH 1ST HIGH VALUE IS	178.81271	ON 08071622: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						
FWYEB15	HIGH 1ST HIGH VALUE IS	198.19289	ON 08071622: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						

FWYEB16	HIGH	1ST	HIGH	VALUE	IS	220.07772	ON	12083021:	AT	(	468330.00,	3769866.69,
311.33,	395.00,	0.00)	DC									
FWYEB17	HIGH	1ST	HIGH	VALUE	IS	249.98832	ON	12083021:	AT	(	468330.00,	3769866.69,
311.33,	395.00,	0.00)	DC									
FWYEB18	HIGH	1ST	HIGH	VALUE	IS	285.63532	ON	12083021:	AT	(	468330.00,	3769866.69,
311.33,	395.00,	0.00)	DC									
FWYEB19	HIGH	1ST	HIGH	VALUE	IS	333.45793	ON	08071224:	AT	(	468330.00,	3769866.69,
311.33,	395.00,	0.00)	DC									
FWYEB20	HIGH	1ST	HIGH	VALUE	IS	395.34908	ON	08071224:	AT	(	468330.00,	3769866.69,
311.33,	395.00,	0.00)	DC									
FWYEB21	HIGH	1ST	HIGH	VALUE	IS	477.24618	ON	12071224:	AT	(	468330.00,	3769866.69,
311.33,	395.00,	0.00)	DC									
FWYEB22	HIGH	1ST	HIGH	VALUE	IS	579.07113	ON	12071224:	AT	(	468330.00,	3769866.69,
311.33,	395.00,	0.00)	DC									
FWYEB23	HIGH	1ST	HIGH	VALUE	IS	718.31989	ON	09052524:	AT	(	468330.00,	3769866.69,
311.33,	395.00,	0.00)	DC									
FWYEB24	HIGH	1ST	HIGH	VALUE	IS	966.95226	ON	11102419:	AT	(	468330.00,	3769866.69,
311.33,	395.00,	0.00)	DC									
FWYEB25	HIGH	1ST	HIGH	VALUE	IS	1503.79730	ON	12061206:	AT	(468330.00,	3769866.69,
311.33,	395.00,	0.00)	DC									

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*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

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

DATE

NETWORK GROUP ID ZELEV, ZHILL, ZFLAG)	OF TYPE	AVERAGE CONC GRID-ID	(YYMMDDHH)	RECEPTOR (XR, YR,
FWYEB26 HIGH 1ST HIGH VALUE IS 311.33, 395.00, 0.00) DC		2317.76396	ON 09042707: AT (	468330.00, 3769866.69,
FWYEB27 HIGH 1ST HIGH VALUE IS 311.33, 395.00, 0.00) DC		2441.40102	ON 10122208: AT (	468330.00, 3769866.69,
FWYEB28 HIGH 1ST HIGH VALUE IS 311.16, 395.00, 0.00) DC		2323.02394	ON 12071303: AT (	468355.00, 3769866.69,
FWYEB29 HIGH 1ST HIGH VALUE IS 310.77, 395.00, 0.00) DC		2207.73572	ON 12071303: AT (	468380.00, 3769866.69,
FWYEB30 HIGH 1ST HIGH VALUE IS 310.27, 395.00, 0.00) DC		2156.04776	ON 12071303: AT (	468405.00, 3769866.69,
FWYEB31 HIGH 1ST HIGH VALUE IS 310.00, 395.00, 0.00) DC		2075.42044	ON 12071303: AT (	468430.00, 3769866.69,
FWYEB32 HIGH 1ST HIGH VALUE IS 310.00, 395.00, 0.00) DC		1946.41141	ON 08110124: AT (	468430.00, 3769866.69,
FWYEB33 HIGH 1ST HIGH VALUE IS 310.00, 395.00, 0.00) DC		1620.87840	ON 10101608: AT (	468430.00, 3769866.69,
FWYEB34 HIGH 1ST HIGH VALUE IS 310.00, 395.00, 0.00) DC		1290.74880	ON 11062406: AT (	468430.00, 3769866.69,
FWYEB35 HIGH 1ST HIGH VALUE IS 310.00, 395.00, 0.00) DC		856.10829	ON 10022702: AT (	468430.00, 3769866.69,
FWYEB36 HIGH 1ST HIGH VALUE IS 310.00, 395.00, 0.00) DC		649.20705	ON 12101522: AT (	468430.00, 3769866.69,
FWYEB37 HIGH 1ST HIGH VALUE IS 310.00, 395.00, 0.00) DC		531.67734	ON 08093021: AT (	468430.00, 3769866.69,
FWYEB38 HIGH 1ST HIGH VALUE IS 310.00, 395.00, 0.00) DC		432.03936	ON 10092522: AT (	468430.00, 3769866.69,
FWYEB39 HIGH 1ST HIGH VALUE IS 310.00, 395.00, 0.00) DC		361.57146	ON 12092322: AT (	468430.00, 3769866.69,
FWYEB40 HIGH 1ST HIGH VALUE IS 310.00, 395.00, 0.00) DC		309.99553	ON 12093021: AT (	468430.00, 3769866.69,

FWYEB41	HIGH	1ST	HIGH VALUE IS	269.09792	ON 09102322: AT (	468430.00,	3769866.69,
310.00,	395.00,	0.00)	DC				
FWYEB42	HIGH	1ST	HIGH VALUE IS	236.62915	ON 09102322: AT (	468430.00,	3769866.69,
310.00,	395.00,	0.00)	DC				
FWYEB43	HIGH	1ST	HIGH VALUE IS	209.05028	ON 09102322: AT (	468430.00,	3769866.69,
310.00,	395.00,	0.00)	DC				
FWYEB44	HIGH	1ST	HIGH VALUE IS	239.41669	ON 12091322: AT (	468355.00,	3769866.69,
311.16,	395.00,	0.00)	DC				
FWYEB45	HIGH	1ST	HIGH VALUE IS	238.33059	ON 12091322: AT (	468380.00,	3769866.69,
310.77,	395.00,	0.00)	DC				
FWYEB46	HIGH	1ST	HIGH VALUE IS	238.67064	ON 09092423: AT (	468405.00,	3769866.69,
310.27,	395.00,	0.00)	DC				
FWYEB47	HIGH	1ST	HIGH VALUE IS	221.26951	ON 09092423: AT (	468405.00,	3769866.69,
310.27,	395.00,	0.00)	DC				
FWYEB48	HIGH	1ST	HIGH VALUE IS	205.74410	ON 09092423: AT (	468405.00,	3769866.69,
310.27,	395.00,	0.00)	DC				
FWYEB49	HIGH	1ST	HIGH VALUE IS	191.30166	ON 09092423: AT (	468405.00,	3769866.69,
310.27,	395.00,	0.00)	DC				
FWYEB50	HIGH	1ST	HIGH VALUE IS	178.41322	ON 09092423: AT (468405.00,	3769866.69,
310.27,	395.00,	0.00)	DC				

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*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

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

**

NETWORK				DATE		RECEPTOR (XR, YR,	
GROUP ID	ZELEV, ZHILL, ZFLAG)	OF TYPE	AVERAGE CONC	(YYMMDDHH)	GRID-ID		
FWYEB51	HIGH 1ST HIGH VALUE IS	166.71217	ON 09092423: AT (	468405.00,	3769866.69,		
310.27,	395.00, 0.00) DC						
FWYEB52	HIGH 1ST HIGH VALUE IS	155.83031	ON 09092423: AT (	468405.00,	3769866.69,		
310.27,	395.00, 0.00) DC						
FWYEB53	HIGH 1ST HIGH VALUE IS	146.09964	ON 10092905: AT (	468405.00,	3769866.69,		
310.27,	395.00, 0.00) DC						
FWYEB54	HIGH 1ST HIGH VALUE IS	137.65706	ON 10092905: AT (	468405.00,	3769866.69,		
310.27,	395.00, 0.00) DC						
FWYEB55	HIGH 1ST HIGH VALUE IS	128.84887	ON 12112420: AT (	468405.00,	3769866.69,		
310.27,	395.00, 0.00) DC						
FWYWB1	HIGH 1ST HIGH VALUE IS	67.96503	ON 08071622: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						
FWYWB2	HIGH 1ST HIGH VALUE IS	71.68903	ON 08071622: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						
FWYWB3	HIGH 1ST HIGH VALUE IS	75.79244	ON 08071622: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						
FWYWB4	HIGH 1ST HIGH VALUE IS	80.35205	ON 08071622: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						
FWYWB5	HIGH 1ST HIGH VALUE IS	85.23057	ON 08071622: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						
FWYWB6	HIGH 1ST HIGH VALUE IS	91.07093	ON 08071622: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						
FWYWB7	HIGH 1ST HIGH VALUE IS	97.07624	ON 08071622: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						
FWYWB8	HIGH 1ST HIGH VALUE IS	103.66864	ON 12083021: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						
FWYWB9	HIGH 1ST HIGH VALUE IS	112.19737	ON 12083021: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						
FWYWB10	HIGH 1ST HIGH VALUE IS	122.82685	ON 12083021: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						

FWYWB11	HIGH	1ST	HIGH	VALUE	IS	135.11923	ON	12083021:	AT	(	468330.00,	3769866.69,
311.33,	395.00,	0.00)	DC									
FWYWB12	HIGH	1ST	HIGH	VALUE	IS	147.50339	ON	12083021:	AT	(	468330.00,	3769866.69,
311.33,	395.00,	0.00)	DC									
FWYWB13	HIGH	1ST	HIGH	VALUE	IS	161.48245	ON	12083021:	AT	(	468330.00,	3769866.69,
311.33,	395.00,	0.00)	DC									
FWYWB14	HIGH	1ST	HIGH	VALUE	IS	177.87586	ON	12071224:	AT	(	468330.00,	3769891.69,
310.66,	395.00,	0.00)	DC									
FWYWB15	HIGH	1ST	HIGH	VALUE	IS	198.74361	ON	08071224:	AT	(	468330.00,	3769866.69,
311.33,	395.00,	0.00)	DC									
FWYWB16	HIGH	1ST	HIGH	VALUE	IS	222.02828	ON	08071224:	AT	(	468330.00,	3769866.69,
311.33,	395.00,	0.00)	DC									
FWYWB17	HIGH	1ST	HIGH	VALUE	IS	251.56781	ON	12071224:	AT	(	468330.00,	3769866.69,
311.33,	395.00,	0.00)	DC									
FWYWB18	HIGH	1ST	HIGH	VALUE	IS	288.81077	ON	12071224:	AT	(	468330.00,	3769866.69,
311.33,	395.00,	0.00)	DC									
FWYWB19	HIGH	1ST	HIGH	VALUE	IS	329.58606	ON	12071224:	AT	(	468330.00,	3769866.69,
311.33,	395.00,	0.00)	DC									
FWYWB20	HIGH	1ST	HIGH	VALUE	IS	378.99618	ON	10102318:	AT	(468330.00,	3769866.69,
311.33,	395.00,	0.00)	DC									

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*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

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

**

NETWORK				DATE		RECEPTOR (XR, YR,	
GROUP ID	ZELEV, ZHILL, ZFLAG)	OF TYPE	AVERAGE CONC	(YYMMDDHH)	GRID-ID		
FWYWB21	HIGH 1ST HIGH VALUE IS	454.69799	ON 10071722: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						
FWYWB22	HIGH 1ST HIGH VALUE IS	549.83335	ON 11102419: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						
FWYWB23	HIGH 1ST HIGH VALUE IS	683.88808	ON 10011018: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						
FWYWB24	HIGH 1ST HIGH VALUE IS	862.93316	ON 10071101: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						
FWYWB25	HIGH 1ST HIGH VALUE IS	1110.79951	ON 11061607: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						
FWYWB26	HIGH 1ST HIGH VALUE IS	1364.42146	ON 08093020: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						
FWYWB27	HIGH 1ST HIGH VALUE IS	1542.42972	ON 12071303: AT (	468330.00,	3769866.69,		
311.33,	395.00, 0.00) DC						
FWYWB28	HIGH 1ST HIGH VALUE IS	1486.76848	ON 12071303: AT (	468355.00,	3769866.69,		
311.16,	395.00, 0.00) DC						
FWYWB29	HIGH 1ST HIGH VALUE IS	1433.36711	ON 12071303: AT (	468380.00,	3769866.69,		
310.77,	395.00, 0.00) DC						
FWYWB30	HIGH 1ST HIGH VALUE IS	1386.36580	ON 09083121: AT (	468380.00,	3769866.69,		
310.77,	395.00, 0.00) DC						
FWYWB31	HIGH 1ST HIGH VALUE IS	1345.08158	ON 09083121: AT (	468405.00,	3769866.69,		
310.27,	395.00, 0.00) DC						
FWYWB32	HIGH 1ST HIGH VALUE IS	1303.58978	ON 09083121: AT (	468430.00,	3769866.69,		
310.00,	395.00, 0.00) DC						
FWYWB33	HIGH 1ST HIGH VALUE IS	1107.77008	ON 11082701: AT (	468430.00,	3769866.69,		
310.00,	395.00, 0.00) DC						
FWYWB34	HIGH 1ST HIGH VALUE IS	896.74297	ON 10082701: AT (	468430.00,	3769866.69,		
310.00,	395.00, 0.00) DC						
FWYWB35	HIGH 1ST HIGH VALUE IS	730.85249	ON 11062406: AT (	468430.00,	3769866.69,		
310.00,	395.00, 0.00) DC						

FWYWB36	HIGH	1ST	HIGH	VALUE	IS	574.26098	ON	10022702:	AT	(	468430.00,	3769866.69,
310.00,	395.00,	0.00)	DC									
FWYWB37	HIGH	1ST	HIGH	VALUE	IS	476.55240	ON	09092421:	AT	(	468430.00,	3769866.69,
310.00,	395.00,	0.00)	DC									
FWYWB38	HIGH	1ST	HIGH	VALUE	IS	394.23059	ON	09040422:	AT	(	468430.00,	3769866.69,
310.00,	395.00,	0.00)	DC									
FWYWB39	HIGH	1ST	HIGH	VALUE	IS	339.24459	ON	08093021:	AT	(	468430.00,	3769866.69,
310.00,	395.00,	0.00)	DC									
FWYWB40	HIGH	1ST	HIGH	VALUE	IS	296.17961	ON	08112119:	AT	(	468430.00,	3769866.69,
310.00,	395.00,	0.00)	DC									
FWYWB41	HIGH	1ST	HIGH	VALUE	IS	256.83761	ON	12121019:	AT	(	468430.00,	3769866.69,
310.00,	395.00,	0.00)	DC									
FWYWB42	HIGH	1ST	HIGH	VALUE	IS	226.55155	ON	10092522:	AT	(	468430.00,	3769866.69,
310.00,	395.00,	0.00)	DC									
FWYWB43	HIGH	1ST	HIGH	VALUE	IS	235.19209	ON	09092423:	AT	(	468330.00,	3769866.69,
311.33,	395.00,	0.00)	DC									
FWYWB44	HIGH	1ST	HIGH	VALUE	IS	234.29209	ON	09092423:	AT	(	468355.00,	3769866.69,
311.16,	395.00,	0.00)	DC									
FWYWB45	HIGH	1ST	HIGH	VALUE	IS	217.29178	ON	09092423:	AT	(468355.00,	3769866.69,
311.16,	395.00,	0.00)	DC									

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
 *** 11:17:54

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

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

DATE

NETWORK GROUP ID ZELEV, ZHILL, ZFLAG)	OF TYPE	AVERAGE CONC GRID-ID	(YYMMDDHH)	RECEPTOR (XR, YR,
FWYWB46 HIGH 1ST HIGH VALUE IS 311.16, 395.00, 0.00) DC		202.74982	ON 09092423: AT (	468355.00, 3769866.69,
FWYWB47 HIGH 1ST HIGH VALUE IS 310.27, 395.00, 0.00) DC		215.03456	ON 08092421: AT (	468405.00, 3769866.69,
FWYWB48 HIGH 1ST HIGH VALUE IS 310.27, 395.00, 0.00) DC		200.94268	ON 08092421: AT (	468405.00, 3769866.69,
FWYWB49 HIGH 1ST HIGH VALUE IS 310.27, 395.00, 0.00) DC		188.38993	ON 08092421: AT (	468405.00, 3769866.69,
FWYWB50 HIGH 1ST HIGH VALUE IS 310.27, 395.00, 0.00) DC		175.82433	ON 08092421: AT (	468405.00, 3769866.69,
FWYWB51 HIGH 1ST HIGH VALUE IS 310.27, 395.00, 0.00) DC		164.82906	ON 08092421: AT (	468405.00, 3769866.69,
FWYWB52 HIGH 1ST HIGH VALUE IS 310.27, 395.00, 0.00) DC		154.78167	ON 08092421: AT (	468405.00, 3769866.69,
FWYWB53 HIGH 1ST HIGH VALUE IS 310.27, 395.00, 0.00) DC		145.58453	ON 08092421: AT (	468405.00, 3769866.69,
FWYWB54 HIGH 1ST HIGH VALUE IS 310.27, 395.00, 0.00) DC		136.87145	ON 08092421: AT (	468405.00, 3769866.69,
FWYWB55 HIGH 1ST HIGH VALUE IS 310.77, 395.00, 0.00) DC		124.30662	ON 08092421: AT (	468380.00, 3769866.69,
RAIL1 HIGH 1ST HIGH VALUE IS 311.33, 395.00, 0.00) DC		342.67554	ON 11090519: AT (	468330.00, 3769866.69,
RAIL2 HIGH 1ST HIGH VALUE IS 311.33, 395.00, 0.00) DC		408.37918	ON 11090519: AT (	468330.00, 3769866.69,
RAIL3 HIGH 1ST HIGH VALUE IS 311.33, 395.00, 0.00) DC		481.94285	ON 11101505: AT (	468330.00, 3769866.69,
RAIL4 HIGH 1ST HIGH VALUE IS 311.33, 395.00, 0.00) DC		573.52442	ON 08093020: AT (	468330.00, 3769866.69,
RAIL5 HIGH 1ST HIGH VALUE IS 311.33, 395.00, 0.00) DC		674.50147	ON 09111019: AT (	468330.00, 3769866.69,

RAIL6	HIGH	1ST	HIGH	VALUE	IS	758.23384	ON	08062701:	AT	(	468330.00,	3769866.69,
311.33,			395.00,		0.00)	DC						
RAIL7	HIGH	1ST	HIGH	VALUE	IS	816.16843	ON	10011018:	AT	(	468330.00,	3769866.69,
311.33,			395.00,		0.00)	DC						
RAIL8	HIGH	1ST	HIGH	VALUE	IS	814.89888	ON	12071224:	AT	(	468330.00,	3769866.69,
311.33,			395.00,		0.00)	DC						
RAIL9	HIGH	1ST	HIGH	VALUE	IS	810.92243	ON	12091207:	AT	(	468330.00,	3769866.69,
311.33,			395.00,		0.00)	DC						
RAIL10	HIGH	1ST	HIGH	VALUE	IS	770.03871	ON	12091207:	AT	(	468330.00,	3769891.69,
310.66,			395.00,		0.00)	DC						
RAIL11	HIGH	1ST	HIGH	VALUE	IS	745.93493	ON	12091207:	AT	(	468330.00,	3769916.69,
310.32,			395.00,		0.00)	DC						
RAIL12	HIGH	1ST	HIGH	VALUE	IS	745.93493	ON	12091207:	AT	(	468330.00,	3769941.69,
310.32,			395.00,		0.00)	DC						
RAIL13	HIGH	1ST	HIGH	VALUE	IS	745.93493	ON	12091207:	AT	(	468330.00,	3769966.69,
310.32,			395.00,		0.00)	DC						
RAIL14	HIGH	1ST	HIGH	VALUE	IS	763.07720	ON	12091207:	AT	(	468330.00,	3769991.69,
310.32,			377.00,		0.00)	DC						
RAIL15	HIGH	1ST	HIGH	VALUE	IS	767.91158	ON	12091207:	AT	(468330.00,	3770016.69,
310.78,			377.00,		0.00)	DC						

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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 *** AERMET - VERSION 14134 *** *** Modeling Analysis
 *** 11:17:54

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

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

**

NETWORK GROUP ID ZELEV, ZHILL, ZFLAG)	OF TYPE	AVERAGE CONC GRID-ID	DATE (YYMMDDHH)	RECEPTOR (XR, YR,
RAIL16 HIGH 1ST HIGH VALUE IS 311.16, 377.00, 0.00) DC		772.82058	ON 12091207: AT (	468330.00, 3770041.69,
RAIL17 HIGH 1ST HIGH VALUE IS 311.32, 311.32, 0.00) DC		770.52054	ON 12091207: AT (	468330.00, 3770066.69,
RAIL18 HIGH 1ST HIGH VALUE IS 311.50, 311.50, 0.00) DC		765.42878	ON 12091207: AT (	468330.00, 3770091.69,
RAIL19 HIGH 1ST HIGH VALUE IS 311.50, 311.50, 0.00) DC		671.91775	ON 10110319: AT (	468330.00, 3770091.69,
RAIL20 HIGH 1ST HIGH VALUE IS 311.50, 311.50, 0.00) DC		623.15508	ON 12053006: AT (	468330.00, 3770091.69,
RAIL21 HIGH 1ST HIGH VALUE IS 311.50, 311.50, 0.00) DC		539.27899	ON 09022203: AT (	468330.00, 3770091.69,
RAIL22 HIGH 1ST HIGH VALUE IS 311.50, 311.50, 0.00) DC		473.91731	ON 12022207: AT (	468330.00, 3770091.69,
RAIL23 HIGH 1ST HIGH VALUE IS 311.50, 311.50, 0.00) DC		411.89591	ON 08103106: AT (	468330.00, 3770091.69,
RAIL24 HIGH 1ST HIGH VALUE IS 311.50, 311.50, 0.00) DC		348.82159	ON 08112420: AT (	468330.00, 3770091.69,
RAIL25 HIGH 1ST HIGH VALUE IS 311.50, 311.50, 0.00) DC		301.98094	ON 10082624: AT (	468330.00, 3770091.69,
QUARRY HIGH 1ST HIGH VALUE IS 311.16, 395.00, 0.00) DC		563.62470	ON 08071805: AT (	468355.00, 3769866.69,

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR

*** AERMOD - VERSION 15181 *** *** Las Terrazas HRA
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** Message Summary : AERMOD Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 1269 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 16 Calm Hours Identified

A Total of 1253 Missing Hours Identified (2.86 Percent)

***** FATAL ERROR MESSAGES *****
*** NONE ***

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

*** AERMOD Finishes Successfully ***

HARP2 Model Output Files
Las Terrazas Health Risk Assessment

*HARP - HRACalc v16057 3/31/2016 11:41:03 AM - Cancer Risk

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RIS	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_R	EGG_RISK
1	ALL		468330	3769867	5.96E-05	30YrCancel	5.96E-05	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	ALL		468355	3769867	5.82E-05	30YrCancel	5.82E-05	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
3	ALL		468380	3769867	5.74E-05	30YrCancel	5.74E-05	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
4	ALL		468405	3769867	5.70E-05	30YrCancel	5.70E-05	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
5	ALL		468430	3769867	5.67E-05	30YrCancel	5.67E-05	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
6	ALL		468330	3769892	4.69E-05	30YrCancel	4.69E-05	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
7	ALL		468355	3769892	4.60E-05	30YrCancel	4.60E-05	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
8	ALL		468380	3769892	4.56E-05	30YrCancel	4.56E-05	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
9	ALL		468405	3769892	4.58E-05	30YrCancel	4.58E-05	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
10	ALL		468430	3769892	4.58E-05	30YrCancel	4.58E-05	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
11	ALL		468330	3769917	3.93E-05	30YrCancel	3.93E-05	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
12	ALL		468355	3769917	3.87E-05	30YrCancel	3.87E-05	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
13	ALL		468380	3769917	3.85E-05	30YrCancel	3.85E-05	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
14	ALL		468405	3769917	3.86E-05	30YrCancel	3.86E-05	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
15	ALL		468430	3769917	3.88E-05	30YrCancel	3.88E-05	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
16	ALL		468330	3769942	3.41E-05	30YrCancel	3.41E-05	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
17	ALL		468355	3769942	3.37E-05	30YrCancel	3.37E-05	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
18	ALL		468380	3769942	3.35E-05	30YrCancel	3.35E-05	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
19	ALL		468405	3769942	3.36E-05	30YrCancel	3.36E-05	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
20	ALL		468430	3769942	3.39E-05	30YrCancel	3.39E-05	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
21	ALL		468330	3769967	3.03E-05	30YrCancel	3.03E-05	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
22	ALL		468355	3769967	2.99E-05	30YrCancel	2.99E-05	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
23	ALL		468380	3769967	2.97E-05	30YrCancel	2.97E-05	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
24	ALL		468405	3769967	2.98E-05	30YrCancel	2.98E-05	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
25	ALL		468430	3769967	3.01E-05	30YrCancel	3.01E-05	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
26	ALL		468330	3769992	2.73E-05	30YrCancel	2.73E-05	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
27	ALL		468355	3769992	2.69E-05	30YrCancel	2.69E-05	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
28	ALL		468380	3769992	2.67E-05	30YrCancel	2.67E-05	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
29	ALL		468330	3770017	2.48E-05	30YrCancel	2.48E-05	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
30	ALL		468355	3770017	2.43E-05	30YrCancel	2.43E-05	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
31	ALL		468380	3770017	2.42E-05	30YrCancel	2.42E-05	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
32	ALL		468330	3770042	2.27E-05	30YrCancel	2.27E-05	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
33	ALL		468355	3770042	2.22E-05	30YrCancel	2.22E-05	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
34	ALL		468380	3770042	2.20E-05	30YrCancel	2.20E-05	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
35	ALL		468330	3770067	2.10E-05	30YrCancel	2.10E-05	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
36	ALL		468355	3770067	2.05E-05	30YrCancel	2.05E-05	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
37	ALL		468380	3770067	2.02E-05	30YrCancel	2.02E-05	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
38	ALL		468330	3770092	1.94E-05	30YrCancel	1.94E-05	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
39	ALL		468355	3770092	1.89E-05	30YrCancel	1.89E-05	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
40	ALL		468380	3770092	1.86E-05	30YrCancel	1.86E-05	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 v16057 3/31/2016 11:42:55 AM - Chronic Risk

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		468330	3769867	NonCancer	2.24E-04	2.29E-04	4.27E-05	3.26E-02	1.08E-08	2.57E-04	6.77E-02	2.24E-04	5.34E-08	0.00E+00	6.43E-09	1.46E-03	0.00E+00	0.00E+00	6.77E-02
2	ALL		468355	3769867	NonCancer	2.27E-04	2.31E-04	4.33E-05	3.30E-02	1.09E-08	2.60E-04	6.81E-02	2.27E-04	5.40E-08	0.00E+00	6.50E-09	1.48E-03	0.00E+00	0.00E+00	6.81E-02
3	ALL		468380	3769867	NonCancer	2.39E-04	2.44E-04	4.56E-05	3.48E-02	1.15E-08	2.75E-04	7.09E-02	2.39E-04	5.70E-08	0.00E+00	6.86E-09	1.56E-03	0.00E+00	0.00E+00	7.09E-02
4	ALL		468405	3769867	NonCancer	2.57E-04	2.62E-04	4.90E-05	3.73E-02	1.24E-08	2.95E-04	7.50E-02	2.57E-04	6.12E-08	0.00E+00	7.36E-09	1.67E-03	0.00E+00	0.00E+00	7.50E-02
5	ALL		468430	3769867	NonCancer	2.70E-04	2.76E-04	5.15E-05	3.93E-02	1.30E-08	3.10E-04	7.82E-02	2.70E-04	6.44E-08	0.00E+00	7.75E-09	1.76E-03	0.00E+00	0.00E+00	7.82E-02
6	ALL		468330	3769892	NonCancer	2.14E-04	2.18E-04	4.09E-05	3.11E-02	1.03E-08	2.46E-04	6.24E-02	2.14E-04	5.10E-08	0.00E+00	6.14E-09	1.39E-03	0.00E+00	0.00E+00	6.24E-02
7	ALL		468355	3769892	NonCancer	2.15E-04	2.19E-04	4.10E-05	3.13E-02	1.04E-08	2.47E-04	6.24E-02	2.15E-04	5.13E-08	0.00E+00	6.17E-09	1.40E-03	0.00E+00	0.00E+00	6.24E-02
8	ALL		468380	3769892	NonCancer	2.24E-04	2.29E-04	4.27E-05	3.26E-02	1.08E-08	2.57E-04	6.45E-02	2.24E-04	5.34E-08	0.00E+00	6.43E-09	1.46E-03	0.00E+00	0.00E+00	6.45E-02
9	ALL		468405	3769892	NonCancer	2.39E-04	2.44E-04	4.56E-05	3.47E-02	1.15E-08	2.74E-04	6.81E-02	2.39E-04	5.69E-08	0.00E+00	6.85E-09	1.56E-03	0.00E+00	0.00E+00	6.81E-02
10	ALL		468430	3769892	NonCancer	2.51E-04	2.56E-04	4.79E-05	3.66E-02	1.21E-08	2.88E-04	7.11E-02	2.51E-04	5.99E-08	0.00E+00	7.21E-09	1.64E-03	0.00E+00	0.00E+00	7.11E-02
11	ALL		468330	3769917	NonCancer	2.04E-04	2.08E-04	3.89E-05	2.96E-02	9.83E-09	2.34E-04	5.82E-02	2.04E-04	4.86E-08	0.00E+00	5.84E-09	1.33E-03	0.00E+00	0.00E+00	5.82E-02
12	ALL		468355	3769917	NonCancer	2.04E-04	2.08E-04	3.89E-05	2.97E-02	9.84E-09	2.34E-04	5.81E-02	2.04E-04	4.86E-08	0.00E+00	5.85E-09	1.33E-03	0.00E+00	0.00E+00	5.81E-02
13	ALL		468380	3769917	NonCancer	2.10E-04	2.14E-04	4.01E-05	3.06E-02	1.01E-08	2.41E-04	5.95E-02	2.10E-04	5.01E-08	0.00E+00	6.03E-09	1.37E-03	0.00E+00	0.00E+00	5.95E-02
14	ALL		468405	3769917	NonCancer	2.22E-04	2.26E-04	4.23E-05	3.22E-02	1.07E-08	2.54E-04	6.23E-02	2.22E-04	5.28E-08	0.00E+00	6.35E-09	1.44E-03	0.00E+00	0.00E+00	6.23E-02
15	ALL		468430	3769917	NonCancer	2.34E-04	2.39E-04	4.46E-05	3.40E-02	1.13E-08	2.68E-04	6.53E-02	2.34E-04	5.57E-08	0.00E+00	6.71E-09	1.52E-03	0.00E+00	0.00E+00	6.53E-02
16	ALL		468330	3769942	NonCancer	1.93E-04	1.97E-04	3.68E-05	2.81E-02	9.30E-09	2.21E-04	5.44E-02	1.93E-04	4.60E-08	0.00E+00	5.53E-09	1.26E-03	0.00E+00	0.00E+00	5.44E-02
17	ALL		468355	3769942	NonCancer	1.92E-04	1.96E-04	3.66E-05	2.79E-02	9.26E-09	2.21E-04	5.40E-02	1.92E-04	4.58E-08	0.00E+00	5.51E-09	1.25E-03	0.00E+00	0.00E+00	5.40E-02
18	ALL		468380	3769942	NonCancer	1.97E-04	2.00E-04	3.75E-05	2.86E-02	9.48E-09	2.26E-04	5.51E-02	1.97E-04	4.68E-08	0.00E+00	5.64E-09	1.28E-03	0.00E+00	0.00E+00	5.51E-02
19	ALL		468405	3769942	NonCancer	2.06E-04	2.10E-04	3.93E-05	3.00E-02	9.94E-09	2.37E-04	5.74E-02	2.06E-04	4.91E-08	0.00E+00	5.91E-09	1.34E-03	0.00E+00	0.00E+00	5.74E-02
20	ALL		468430	3769942	NonCancer	2.18E-04	2.22E-04	4.16E-05	3.17E-02	1.05E-08	2.50E-04	6.03E-02	2.18E-04	5.19E-08	0.00E+00	6.25E-09	1.42E-03	0.00E+00	0.00E+00	6.03E-02
21	ALL		468330	3769967	NonCancer	1.83E-04	1.87E-04	3.49E-05	2.66E-02	8.83E-09	2.10E-04	5.11E-02	1.83E-04	4.37E-08	0.00E+00	5.25E-09	1.19E-03	0.00E+00	0.00E+00	5.11E-02
22	ALL		468355	3769967	NonCancer	1.82E-04	1.85E-04	3.46E-05	2.64E-02	8.75E-09	2.08E-04	5.06E-02	1.82E-04	4.33E-08	0.00E+00	5.20E-09	1.18E-03	0.00E+00	0.00E+00	5.06E-02
23	ALL		468380	3769967	NonCancer	1.85E-04	1.88E-04	3.52E-05	2.68E-02	8.90E-09	2.12E-04	5.13E-02	1.85E-04	4.40E-08	0.00E+00	5.29E-09	1.20E-03	0.00E+00	0.00E+00	5.13E-02
24	ALL		468405	3769967	NonCancer	1.92E-04	1.96E-04	3.67E-05	2.80E-02	9.28E-09	2.21E-04	5.32E-02	1.92E-04	4.59E-08	0.00E+00	5.52E-09	1.25E-03	0.00E+00	0.00E+00	5.32E-02
25	ALL		468430	3769967	NonCancer	2.03E-04	2.07E-04	3.88E-05	2.96E-02	9.80E-09	2.33E-04	5.59E-02	2.03E-04	4.84E-08	0.00E+00	5.83E-09	1.32E-03	0.00E+00	0.00E+00	5.59E-02
26	ALL		468330	3769992	NonCancer	1.74E-04	1.78E-04	3.33E-05	2.54E-02	8.41E-09	2.00E-04	4.83E-02	1.74E-04	4.15E-08	0.00E+00	5.00E-09	1.14E-03	0.00E+00	0.00E+00	4.83E-02
27	ALL		468355	3769992	NonCancer	1.72E-04	1.75E-04	3.28E-05	2.50E-02	8.29E-09	1.97E-04	4.76E-02	1.72E-04	4.10E-08	0.00E+00	4.93E-09	1.12E-03	0.00E+00	0.00E+00	4.76E-02
28	ALL		468380	3769992	NonCancer	1.74E-04	1.77E-04	3.32E-05	2.53E-02	8.38E-09	1.99E-04	4.80E-02	1.74E-04	4.14E-08	0.00E+00	4.98E-09	1.13E-03	0.00E+00	0.00E+00	4.80E-02
29	ALL		468330	3770017	NonCancer	1.65E-04	1.68E-04	3.14E-05	2.39E-02	7.94E-09	1.89E-04	4.54E-02	1.65E-04	3.92E-08	0.00E+00	4.72E-09	1.07E-03	0.00E+00	0.00E+00	4.54E-02
30	ALL		468355	3770017	NonCancer	1.62E-04	1.65E-04	3.09E-05	2.36E-02	7.82E-09	1.86E-04	4.47E-02	1.62E-04	3.87E-08	0.00E+00	4.65E-09	1.06E-03	0.00E+00	0.00E+00	4.47E-02
31	ALL		468380	3770017	NonCancer	1.64E-04	1.67E-04	3.13E-05	2.39E-02	7.92E-09	1.88E-04	4.51E-02	1.64E-04	3.91E-08	0.00E+00	4.71E-09	1.07E-03	0.00E+00	0.00E+00	4.51E-02
32	ALL		468330	3770042	NonCancer	1.56E-04	1.59E-04	2.98E-05	2.27E-02	7.53E-09	1.79E-04	4.28E-02	1.56E-04	3.72E-08	0.00E+00	4.48E-09	1.02E-03	0.00E+00	0.00E+00	4.28E-02
33	ALL		468355	3770042	NonCancer	1.53E-04	1.56E-04	2.92E-05	2.23E-02	7.38E-09	1.76E-04	4.20E-02	1.53E-04	3.65E-08	0.00E+00	4.39E-09	9.97E-04	0.00E+00	0.00E+00	4.20E-02
34	ALL		468380	3770042	NonCancer	1.55E-04	1.58E-04	2.95E-05	2.25E-02	7.45E-09	1.77E-04	4.23E-02	1.55E-04	3.68E-08	0.00E+00	4.43E-09	1.01E-03	0.00E+00	0.00E+00	4.23E-02
35	ALL		468330	3770067	NonCancer	1.49E-04	1.52E-04	2.84E-05	2.17E-02	7.18E-09	1.71E-04	4.07E-02	1.49E-04	3.55E-08	0.00E+00	4.27E-09	9.70E-04	0.00E+00	0.00E+00	4.07E-02
36	ALL		468355	3770067	NonCancer	1.45E-04	1.48E-04	2.77E-05	2.12E-02	7.01E-09	1.67E-04	3.98E-02	1.45E-04	3.47E-08	0.00E+00	4.17E-09	9.47E-04	0.00E+00	0.00E+00	3.98E-02
37	ALL		468380	3770067	NonCancer	1.45E-04	1.48E-04	2.77E-05	2.12E-02	7.01E-09	1.67E-04	3.97E-02	1.45E-04	3.47E-08	0.00E+00	4.17E-09	9.47E-04	0.00E+00	0.00E+00	3.97E-02
38	ALL		468330	3770092	NonCancer	1.42E-04	1.45E-04	2.72E-05	2.07E-02	6.87E-09	1.63E-04	3.88E-02	1.42E-04	3.39E-08	0.00E+00	4.08E-09	9.27E-04	0.00E+00	0.00E+00	3.88E-02
39	ALL		468355	3770092	NonCancer	1.39E-04	1.41E-04	2.65E-05	2.02E-02	6.69E-09	1.59E-04	3.78E-02	1.39E-04	3.31E-08	0.00E+00	3.98E-09	9.03E-04	0.00E+00	0.00E+00	3.78E-02
40	ALL		468380	3770092	NonCancer	1.38E-04	1.40E-04	2.62E-05	2.00E-02	6.64E-09	1.58E-04	3.74E-02	1.38E-04	3.28E-08	0.00E+00	3.95E-09	8.96E-04	0.00E+00	0.00E+00	3.74E-02

**Attachment C:
Exhibit 2 from the Environmental Assessment/Initial Study**

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Source: ESRI Aerial Imagery.



1,000 500 0 1,000 Feet

Exhibit 2 Local Vicinity Map

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AMCAL MULTI-HOUSING, INC.
LAS TERRAZAS AFFORDABLE HOUSING PROJECT
ENVIRONMENTAL ASSESSMENT

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EXHIBIT H

City of Colton Response to Comments



Las Terrazas Apartments
Colton, Unincorporated San Bernardino County, CA 92324
APNs: 0274-182-**34, 36 and 46**

Addressing the Concerns of our Future Neighbors

AMCAL Multi-Housing, Inc. has been diligently working with the County of San Bernardino since 2012 to provide its citizens with safe, aesthetically pleasing, and thoughtfully designed affordable housing at the intersection of Valley Boulevard and North Cypress Avenue. Over that course of time we have convened five community meetings to present the project and solicit feedback from members of the surrounding neighborhood. Always conscious of how the addition of a new affordable housing community will impact our future neighbors, AMCAL has consistently incorporated their suggestions into our design program. This document attempts to capture and consciously address the concerns voiced by our neighbors in attendance at the January 13, 2016 community meeting.

1. The neighborhood has experienced power outages. Is there sufficient electrical power to serve the new buildings?

Following the meeting, Kathryn Brann of the San Bernardino County Economic Development Agency (EDA) contacted Southern California Edison, which confirmed that sufficient electrical power is available to provide service to both the existing community and Las Terrazas Apartments. AMCAL has also obtained an official “will-serve” letter from SCE.

2. There are currently problems with the existing storm drain at the intersection of Valley Blvd. and Cypress Ave. Is the new project going to fix these issues?

According to AMCAL’s civil engineer, who has conducted extensive studies of the site itself and the entire watershed, periodic flooding occurs at that intersection because of the small size of the downstream pipes that provide an underground connection between the storm water collection swales on either side of the I-10 freeway. During the course of construction AMCAL will install two new 18” pipes to transport water runoff from the property and neighboring homes on the northern side of Valley Blvd. to the swale that abuts the I-10 freeway. In this manner the new project will significantly improve upon the existing storm drain situation.

The State of California law and San Bernardino County regulations require the incorporation of practices to maintain the pre-development hydrology of a site to the maximum extent practicable. In this case the new project will preserve the pre-development hydrology so that

there will be no increase in runoff from the project site to the surroundings. The storm water runoff onsite will be intercepted by storm drain inlets, filtered by filter inserts, and infiltrated into the ground through underground storm water storage and infiltration systems. The Las Terrazas Water Quality Management Plan was submitted to the County on November 13, 2015. We subsequently received comments from the County Engineer on December 1, 2015 and addressed them in the WQMP that was resubmitted on March 11, 2016. It was approved by the County Engineer on March 21, 2016.

3. Will the storm water from the new housing development drain onto neighboring properties?

The State of California law and San Bernardino County regulations do not allow any storm water to run off the property when new apartments are built. The law has changed from the past, and all the water must be collected and remain on the property so it can be treated, filtered, and then soak into the ground. The Las Terrazas project will be built in a basin, so all the storm water will run down from the sides of the property toward the middle. As such the water will no longer flow onto neighboring property. There are swales (grassy basins) along the perimeter of the property, which will collect water into the grass and soil and prevent it from flowing onto the neighboring properties. In the middle of the property are three large underground cisterns (24,390 cubic feet) and they will collect all the rainwater. The water will be filtered before it enters the soil, and then it will infiltrate into the ground so it can re-charge the aquifer. It is also worth noting that the Las Terrazas hydrology plan anticipates collecting storm water runoff from 2.4 acres of neighboring properties and treating it for them, thus providing a positive benefit to the local community.

4. Weed abatement activities on the currently vacant land causes dust storms.

Following the meeting the AMCAL team contacted our weed abatement specialist to confirm that he uses a tractor with rotary blades, as opposed to discs, to reduce the dust. AMCAL also requested that he either water the area before performing weed abatement, or conduct the activity immediately following a rain event, when the ground would naturally be wet and reduce the likelihood of creating a dust storm.

5. Some neighbors are concerned about hazardous materials and toxins on the Las Terrazas development site. Will it be removed?

AMCAL and our team of specialized consultants have identified concentrations of organochlorine pesticides (OCPs) and polychlorinated biphenyls (PCBs) through soil sampling conducted during the Phase II Environmental Site Assessment. As a result of OCPs and PCBs detection, AMCAL has entered into a voluntary oversight agreement with the California Department of Toxic Substances Control (DTSC) for regulatory oversight to remove the impacted soils from the site. The DTSC is scheduled to approve the Removal Action Workplan (RAW) after the County Board of Supervisors CEQA hearing on May 25, 2016. According to the RAW, starting in July 2016 we plan to excavate and remove over 700 tons of soil from four locations on site. All contaminated soil will be disposed of at an appropriate offsite disposal facility. A copy of the RAW is available upon

request. The DTSC held a community meeting on April 5, 2016 at the Arrowhead Regional Medical Center to present the RAW to the public and receive feedback. A total of six neighbors attended to share thoughts about the proposed remediation and about the project in general.

6. Some neighbors believe the existing schools in the area are overcrowded. Will the new tenants living in Las Terrazas Apartments add to the student body in the school district?

Many of the likely residents already live in San Bernardino County and potentially even this school district. As such, many of the families that move into Las Terrazas Apartments will not be new to the school district. AMCAL received a letter from the Colton Unified School District on September 24, 2015 stating that its schools will serve children and families from this development. It is also worth noting that AMCAL will pay approximately \$350,000 in school fees to the Colton Unified School District as a condition to build Las Terrazas Apartments. This money goes directly to improving the school district, which also benefits the surrounding neighborhood as better school districts tend to attract better tenants.

7. Will the tenants of Las Terrazas Apartments be “out-of-towners?”

AMCAL and our property management partners, FPI Management, will focus marketing and leasing efforts locally in Colton and San Bernardino County. Outreach efforts will be conducted at local veterans centers (VFW and American Legion posts, San Bernardino Veterans Affairs office, VA Clinic), senior centers and schools. In addition, we will post signs at the construction site with leasing information so that local neighbors will be the first to learn about apartment availability.

Marketing to targeted populations must comply with Fair Housing laws, and AMCAL ensures that by publicizing the new development in advance over a wide geographic areas and demographic populations. In order to assist the community in which the new housing will be built, AMCAL has launched niche marketing to various geographic and demographic groups, along with the overall marketing, to ensure that they receive application information early in the process and offer them the ability to benefit from the housing. Specialized media, proactive outreach and community events are used to reach targeted populations. See below for a few examples of how AMCAL has worked with local communities to conduct specialized marketing efforts:

Palo Verde Terraces, senior apartments (Palmdale): AMCAL held information sessions and workshops at local restaurants near the site to promote the new senior housing. Outreach was to local residents, and they were given information on how to apply and other advance preparation.

Camino al Oro, Tesoro del Valle, Flores del Valle apartments (Los Angeles): AMCAL held information sessions and workshops at community organizations’ offices located near the new family and senior housing. The Council District assisted in outreach to area neighbors to encourage them to attend these sessions and later apply for housing.

Mirandela senior apartments (Rancho Palos Verdes): City Hall assisted in outreach to city residents to ensure that they were aware of upcoming deadlines and qualification requirements (paperwork, income levels, etc.). Neighbors had regular contact with AMCAL and were regularly briefed on impending submittal deadlines.

- 8. The convenience store (C2 Market) on the northeast corner of Valley Blvd. and Cypress Ave. has a reputation as a hangout for unsavory characters. There is concern that this makes the site a sub-optimal location for a childcare center, bus stop, and new housing development.**

Las Terrazas Apartments represents an investment of over \$30 million in the area immediately across the street from C2 Market. The new Spanish/Mediterranean apartment buildings will serve as an aesthetic complement to the existing neighborhood and provide a vast improvement over the empty lot currently occupying the site. The beautiful new construction will attract a mix of seniors and families to patronize local businesses, including the C2 Market. The new patrons will increase the demand for quality and quantity of convenience goods available at within walking distance. Market economics should pressure C2 Market to improve services in order to capitalize on the influx of new customers. Increased activity at the new childcare center and the upgraded bus stop will deter crime, as studies and anecdotal evidence show that more eyes on the street correlates to a decrease in crime.

- 9. A few neighbors identified a rundown affordable housing project on N. Rancho Avenue and Mills Street, expressing concern that Las Terrazas would be similar.**

AMCAL and County staff determined that the residents were likely referring to the Arbor Terrace Apartments at 2170 N. Rancho Avenue. It is no secret that Arbor Terrace has had its share of problems in the past related to crime and gang activity, so we recognize our neighbors' concerns about that particular affordable housing community. AMCAL and County staff contacted the owner, WNC & Associates, and the newly hired property manager, FPI Management. We learned that Arbor Terrace was built in the 1960's and at some point the apartments were subsidized via Section 8 project-based housing vouchers. In the past, that particular HUD program required little in the way of monitoring and property inspections. This low threshold of programmatic compliance, combined with the economically depressed real estate market surrounding the community, allowed Arbor Terrace to fall into disrepair.

In 2013 WNC purchased the property and was awarded 4% Low Income Housing Tax Credits (LIHTC) through the California Tax Credit Allocation Committee (CTCAC). The acquisition and rehabilitation of the property was also financed through a tax exempt bond held by Citibank, according to a 2013 CTCAC report. WNC invested \$30,000 per unit in terms of brick and mortar upgrades to the property through a combination of bond financing and tax credit equity. Arbor Terrace Apartments also became subject to a greater degree of oversight to ensure compliance with regulations associated with those new funding streams. In December 2015 WNC replaced their previous property manager with FPI Management to inject a higher degree of oversight in terms of on-site presence and property maintenance. FPI has installed new staff members on

site, including a property manager and a maintenance supervisor. FPI is also now working closely with the Colton police department to report any crime related issues, and they have fixed the security gate, replaced security cameras, and are conducting the required criminal background checks on all new residents.

Because Las Terrazas will be built using federal financing and LIHTC, we are mandated to implement strong security measures, an enforceable eviction policy for tenant non-compliance with regulations, and active social service programs that engage residents in positive life-improvement programs.

LIHTC communities are financed using a combination of federal dollars and private equity, so the governing documents of our financial partnerships require representatives from local agencies, private sector banks, and AMCAL conduct periodic inspections to ensure our investments are maintained in excellent condition. It is in everyone's interest to ensure that our properties – which are a form of investment for our equity partners – meet the highest standards of operation in order to continue doing business together.

AMCAL affordable housing developments are required to pass the following inspections, and the same rigorous standards will apply to Las Terrazas to ensure a high quality of life for the tenants:

Physical Site Inspections

- ✓ State of California: Every three years
- ✓ Limited Partner (LIHTC Investor): Every year
- ✓ Lenders: Every year
- ✓ AMCAL Asset Management department: Every 3-6 months
- ✓ Property Management Company Executives: Monthly photograph review

Compliance Inspections: Government regulatory agreements require periodic verification of tenant information.

- ✓ State of California: Every three years
- ✓ Limited Partner (LIHTC Investor): Every year
- ✓ Managing General Partner (AMCAL's non-profit partner): Every year
- ✓ Property Management Company: Every year

AMCAL's Asset Management department and our property management company regularly collaborate with inspectors from banks and local agencies to proactively identify potential problems related to health, safety, and site appearance and then implement cooperative plans to remedy those issues. AMCAL takes great pride in the affordable housing developments we build, making long term commitments to the residents and surrounding community long after the construction has been completed.

10. Some community members noted slow response times from the SB County Sheriff and other emergency services. How will the addition of Las Terrazas Apartments affect the Sheriff's department?

According to reports from the SB County Sheriff, the area surrounding Las Terrazas Apartments is not considered a high crime area, as most calls are for minor nuisances. In fact, both the Sheriff and Fire departments have reported adequate response times to calls in the area when questioned by AMCAL and County staff members. Specifically, the fire department response time is under seven minutes. AMCAL is committed to decreasing crime in the area and supporting law enforcement efforts to cultivate a safe neighborhood for our tenants as well as the existing neighbors. A safe neighborhood is equally attractive to those who rent and own property.

11. Why is there a three-story building located at the northernmost point on the property, near neighboring single family homes?

As a result of this comment during the community meeting, AMCAL and our architect reworked the site design so that there is now a two-story building in place of the three-story building. The architect also provided a sight-line study to demonstrate that neither the residents of the two- or three-story buildings will be able to see into the single family homes in adjacent properties. Screening trees, as shown in the landscape plan, have been incorporated to provide privacy to both our residents and our neighbors.

12. Are energy efficiency and sustainability measures being incorporated into the Las Terrazas design and site plan?

Las Terrazas Apartments will be LEED (Leadership in Energy and Environmental Design) certified and will be at least 10% more efficient than 2013 Title 24 standards require. We will be providing Energy Star appliances, LED lighting, low flow water fixtures (faucets, shower heads, toilets), an HVAC system with a SEER 13 (Seasonal Energy Efficiency Ratio) rating, and MERV 16 (Minimum Efficiency Report Value) air filters. The landscape will be drought tolerant, and the carports will be solar-panel ready.

13. With the new housing development, are you going to build a stoplight at the intersection of Valley Blvd. and Cypress Ave.?

As part of the environmental review, AMCAL hired Linscott, Law & Greenspan Engineers to conduct an extensive traffic study. Based on the study, the addition of vehicle trips generated by new Las Terrazas residents within the surrounding roadway network was determined to result in no adverse traffic impacts under any of the scenarios that were analyzed. The study determined that the intersection in question does not warrant the installation of a new traffic light.

14. Has AMCAL considered making Las Terrazas Apartments a 100% senior living community? Or a community exclusively for veterans?

AMCAL has been working with the County Economic Development Agency for over four years to bring Las Terrazas apartments to fruition. Over that time several options have been considered, including both senior and veteran housing. The County EDA and AMCAL together analyzed the likelihood that a community dedicated only to seniors or veterans would be funded through the competitive application process with the California Tax Credit Allocation Committee. Given the availability of public funding specifically dedicated to seniors or veterans, we determined that it would be far less likely to obtain the tax credit financing necessary to fund the construction of a new apartment complex. Given the specific needs of the County, the parties involved decided it was more important to build new affordable apartments for families (as opposed to not building any apartments at all) and make them available to seniors and veterans through the extensive outreach program described above.

15. According to one community member, there was a gas line explosion in 1980 due to a train crash. How is AMCAL going to prevent a similar disaster?

Following the community meeting, AMCAL staff researched the incident and determined that the resident was most likely referring to what is sometimes known as the Duffy Street incident. There were actually two separate incidents involving a train derailment on May 12, 1989 and a subsequent petroleum pipeline failure on May 25, 1989. These incidents occurred about six miles to the north, where the Cajon Wash crosses the 210 Freeway. While it would be impossible for AMCAL to directly *prevent* any such disaster, we would closely coordinate with County and railway authorities in any disaster mitigation efforts.

16. Some neighbors are concerned about the level of noise that will be generated by residents of Las Terrazas Apartments. What will AMCAL do to mitigate noise?

As part of the environmental review, AMCAL hired Eilar Associates, Inc. to conduct a noise analysis report for activity at outdoor use areas including tot lots, the pool area, and courtyards. The acoustic study applied worst case assumptions for the number of adults and children occupying these areas at any one time, which they note are extremely conservative and unlikely to be fulfilled at any one time. Even considering those assumptions, noise impacts will remain in compliance with County noise limits. AMCAL has taken care to design these outdoor spaces to reduce and block noise by situating buildings, walls, and trees between the Las Terrazas outdoor spaces and the adjacent neighbor's property.

17. A few community members expressed fears that this development will lead to annexation of the entire neighborhood by the City of Colton. Is this true?

There is no proposed annexation. Neither the City of Colton, County, nor LAFCO (Local Agency Formation Commission) have expressed interest in annexing the property.

18. Some neighbors noted that they have roosters and other farm animals. They expressed fears that the new residents of Las Terrazas Apartments would complain.

AMCAL will happily include a disclosure in our lease stating that farm animals and roosters in particular live in the surrounding neighborhood. We will strive to help the neighborhood retain its pastoral character and work with neighbors if necessary to help them in any efforts to retain the current zoning allowing animals.

19. Who will provide water service to Las Terrazas Apartments?

Las Terrazas Apartments will procure water service through the City of Colton. AMCAL initially sought to obtain service from the local water board, Terrace Water Company. However, Terrace Water Co. does not have sufficient capacity. As such, AMCAL and Terrace Water reached an agreement under which AMCAL will pay a franchise fee of \$287,000 to Terrace Water Co., which it will use improve the existing facilities and will benefit the surrounding neighborhood.