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EIR Addendum to the Eucalyptus Business Park Specific Plan

Corporate Center Avenue (APN:1025-211-29)

PL24-0151

July 2025

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µg/kg	micrograms per kilogram
µg/L	micrograms per liter
AST	aboveground storage tank
bgs	below ground surface
CalEPA	California Environmental Protection Agency
CCR	California Code of Regulations
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980, commonly known as Superfund
CIM	California Institution for Men
CFR	Code of Federal Regulations
DTSC	California Department of Toxic Substances Control
EIR	environmental impact report
ERA	ecological risk assessment
FS	feasibility study
gpm	gallons per minute
GPS	global positioning system
HHRA	human health risk assessment
IDW	investigation-derived waste
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
NOAA	National Oceanic and Atmospheric Administration
O&M	operations and maintenance
OSWER	Office of Solid Waste and Emergency Response
PA	preliminary assessment
PAH	polynuclear (also polycyclic) aromatic hydrocarbons
PCB	polychlorinated biphenyl
QA	quality assurance
QC	quality control
RCRA	Resource Conservation and Recovery Act of 1976
RWQCB	Regional Water Quality Control Board
SAP	sampling and analysis plan
SARA	Superfund Amendments and Reauthorization Act of 1986; a CERCLA amendment
SVOC	semivolatile organic compound
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Services
USGS	U.S. Geological Survey
UST	underground storage tank
VOC	volatile organic compound

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Section 1 Introduction

This Addendum to the City of Chino's 1990 certified Eucalyptus Business Park Specific Plan Environmental Impact Report (1990 Certified EIR), State Clearinghouse No. 1989070310 has been prepared in accordance with Section 21166 of the California Environmental Quality Act (CEQA) and sections 15162 and 15164 of the CEQA Guidelines. The City of Chino is the lead agency responsible for the EIR, and this Addendum for the Eucalyptus Business Park Specific Plan.

BCT Development (Applicant) proposes 110 multifamily residential dwelling units, consistent with the Affordable Housing Overlay (AHO District) adopted with the 2023 6th Cycle Housing Element Update.

1.1 Purpose of an Addendum

1.1.1 CEQA Requirements

Where a previous EIR has been prepared, subsequent activities within the EIR must be examined in light of that EIR to determine whether an additional environmental document must be prepared. (CEQA Guidelines Section 15168(c)). Where the subsequent activities involve site specific operations, the agency should use a written checklist to document the evaluation of the site and the activity to determine whether the environmental effects of the operation were covered in the EIR. (CEQA Guidelines Section 15168(c)(4)).

Pursuant to PRC Section 21166 and State CEQA Guidelines Section 15162, when an EIR has been certified or a negative declaration adopted for a project, no subsequent EIR or negative declaration shall be prepared for the project unless the lead agency determines that one or more of the following conditions are met:

1. Substantial project changes are proposed that will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;
2. Substantial changes would occur with respect to the circumstances under which the project is undertaken that require major revisions to the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or
3. New information of substantial importance that was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified or the negative declaration was adopted shows any of the following:

a. The project will have one or more significant effects not discussed in the previous EIR or negative declaration.
b. Significant effects previously examined will be substantially more severe than identified in the previous EIR.
c. Mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the project, but the project proponent declines to adopt the mitigation measures or alternatives.
d. Mitigation measures or alternatives that are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponent declines to adopt the mitigation measures or alternatives.

An Addendum can be prepared to a previously certified EIR if some changes or additions are necessary but none of the conditions described in Section 15162 (above) calling for preparation of a subsequent EIR have occurred (CEQA Guidelines Section 15164).

Changes to the Eucalyptus Business Park Specific Plan (Approved Project) and regulatory conditions, described below under the Project Description would fulfill none of the conditions outlined in CEQA Guidelines Sections 15162(a)(1)-(3) as these changes would not result in new significant environmental effects or a substantial increase in the severity of previously identified significant effects requiring major revisions to the 1990 Certified EIR, nor does new information of substantial exist that meets the above-listed threshold to require new analysis. Accordingly, this checklist provides the substantial evidence required by CEQA Guidelines Section 15164(e) to support the finding that a subsequent EIR is not required and an addendum to the 1990 Certified EIR is the appropriate environmental document to address the changes to the project.

As stated in CEQA Guidelines Section 15164 (Addendum to an EIR or Negative Declaration):

a. The lead agency or responsible agency shall prepare an addendum to a previously certified EIR if some changes or additions are necessary but none of the conditions described in Section 15162 calling for preparation of a subsequent EIR have occurred.
b. An addendum to an adopted negative declaration may be prepared if only minor technical changes or additions are necessary or none of the conditions described in Section 15162 calling for the preparation of a subsequent EIR or negative declaration have occurred.
c. An addendum need not be circulated for public review but can be included in or attached to the final EIR or adopted negative declaration.
d. The decision-making body shall consider the addendum with the final EIR or adopted negative declaration prior to making a decision on the project.
e. A brief explanation of the decision not to prepare a subsequent EIR pursuant to Section 15162 should be included in an addendum to an EIR, the lead agency's

findings on the project, or elsewhere in the record. The explanation must be supported by substantial evidence.

After careful consideration of the potential environmental impacts of the Proposed Project, the City of Chino has determined that 1) none of the conditions requiring preparation of a subsequent or supplement to an EIR in Section 15162 have occurred, and 2) the circumstances described in Section 15164 of the CEQA Guidelines exist. Therefore, an Addendum to the Eucalyptus Business Park Specific Plan EIR has been deemed appropriate.

1.1.2 Scope of Analysis in This Addendum

In order to implement the Proposed Project, a number of discretionary approvals from the City of Chino are required. The Project Site, located at Corporate Center Avenue (APN 102-521-129) within the Eucalyptus Business Park Specific Plan, was included in the City's 6th Cycle Housing Element as a site located within the Affordable Housing Overlay. The City's General Plan Land Use Map has been updated to reflect this site as an Affordable Housing Site. This allows for residential use in the area zoned as Auto Mall in the Eucalyptus Business Park Specific Plan. As lead agency under CEQA, the City of Chino is required to evaluate the environmental impacts associated with these discretionary approvals. The scope of the review for project-related impacts for this Addendum is limited to differences between impacts analyzed by the Certified EIR for implementation of the Eucalyptus Business Park Specific Plan (Approved Project) and the Corporate Center Avenue (APN:1025-211-29) Addendum to the Eucalyptus Business Park Specific Plan EIR (Proposed Project). The Approved Project will serve as the "baseline" for the environmental impact analysis. At the Project Site, the Eucalyptus Business Park Specific Plan designated the Project Site as Auto Mall.

The Eucalyptus Business Park Specific Plan described the Auto Mall designation with the intention to be a prestigious center for automobile sales, services, and related uses. It is not the intent of this designation to create a shopping strip of auto dealerships, but to provide a center in which buyers can view and purchase automobiles in a quality setting. In addition to new car sales agencies, the Auto Mall designation provides for the development of commercial businesses which are associated with the automobile industry, and which will assist in attracting additional customer traffic to the area.

The baseline includes all applicable mitigation measures from the adopted Mitigation Monitoring and Reporting Program (MMRP), approved in conjunction with the Certified EIR. As required by CEQA, this Addendum also addresses changes in circumstances or new information that would potentially involve new environmental impacts.

1.2 Content and Organization of This Addendum

This Addendum relies on the City of Chino's CEQA Checklist, which addresses environmental issues section by section. The completed checklist is included in Section 5.0, Environmental Analysis. Each environmental topic has the following subheadings:

- Summary of Previous Environmental Analysis (including the Eucalyptus Business Park Specific Plan EIR, and previous CEQA documentation; see description under Subsection 3.1, Project Background, of this Addendum)
- Impacts Associated with the Proposed Project (including environmental checklist)
- Adopted Mitigation Measures Applicable to the Proposed Project

1.3 Previous Environmental Documentation

For a detailed description of adopted land use planning documents that apply to the Certified EIR and associated environmental documentation, see Section 3.1, Project Background, of this Addendum.

Section 2 Environmental Setting

2.1 Project Location

2.1.1 Eucalyptus Business Park

The Project Site is located within the City of Chino (City) within the existing Eucalyptus Business Park Specific Plan which is located within the southwestern portion of San Bernardino County. The City of Chino is located approximately 37 miles east of Los Angeles, 115 miles north of San Diego, and 40 miles northeast of Orange County. Neighboring communities include the cities of Chino Hills, Pomona, Montclair, and Ontario. This region is part of the Chino Basin which is formed by the San Bernardino Mountains, Jurupa Hills, and the Santa Ana Mountains. Figure 1, Regional Location, and Figure 2, Project Site, depict the Project Site in a regional and local context. Regional accessibility for the Project Site is provided by Chino Valley Freeway (State Route 71) and Pomona Freeway (State Route 60). Chino Hills Freeway provides north-south regional circulation between Los Angeles, San Bernardino and Riverside Counties. The Pomona Freeway also provides a major route to Los Angeles on the west and Riverside and the desert areas to the east.

According to Figure II-5, Existing Land Use Map in the Eucalyptus Business Park Specific Plan, the Project Site at the time was a combination of agriculture and vacant land. The Eucalyptus Business Park Specific Plan was envisioned as a mixed-use project consisting of approximately 7.5 million square feet of total building area.

The City of Chino initiated the Eucalyptus Business Park Specific Plan in order to formulate a public/private development program for the specific plan area that will benefit both the City of Chino and area landowners. The City's purpose for initiating the specific plan program is to:

1. Strengthen the diversity of Chino's industrial base.
2. Improve the community's "jobs—housing" balance and provide a broader range of local employment opportunities for Chino residents.
3. Provide employee amenities and support services and facilities that would serve to attract quality businesses and industries who wish to locate within an attractive working environment.
4. Obtain more consistency in, and to strive for, high standards of design quality throughout the specific plan area.
5. Create an attractive development along Chino Valley Expressway that will contribute to and enhance the City's image.
6. Achieve a continuity of design within the specific plan area and a sense of identity within the specific plan area.
7. Create strong attractive entries into the specific plan area from Chino Hills Parkway and Central Avenue.

8. Create a cohesive and well-planned area which successfully addresses the needs of the future businesses within it and which successfully addresses the needs of the employees of these businesses.

2.1.2 Findings of the Eucalyptus Business Park Specific Plan EIR Addendum

The Final Environmental Impact Report and Statement of Overriding Considerations was approved and adopted on November 20, 1990. The Chino City Council certified the EIR and Addendum based on the following findings:

1. The Final Environmental Impact Report has been prepared in accordance with the California Environmental Quality Act and adequately covers all areas of reasonable environmental concern related to the Eucalyptus Business Park Specific Plan, General Plan Amendment No. 116, Zone Change No. 575, and Sign Ordinance Amendment No. 19.

2. As a result of information and mitigation measures presented in the Final EIR, the Eucalyptus Business Park Specific Plan has been revised to avoid or substantially lessen significant environmental effects to a level of insignificance or are found to be unavoidable. Those impacts determined to be unavoidable are determined to be acceptable and will be permitted without further mitigation due to the overriding considerations generally stated below and permitted pursuant to Section 15093 of the California Environmental Quality Act Guidelines:

    a. The implementation of the Eucalyptus Business Park Specific Plan will assist the City of Chino in meeting the Regional Growth Management Plan and the City's Jobs-Housing Balance.

    b. The Project will enable the City to efficiently and comprehensive plan for the development of the project area in a manner which will enhance the City.

    c. The Project is significantly impacted by an adjacent, previously approved specific plan which will create an increase in storm water run-off which needs to be accommodated through a portion of the Project Site. The need to protect the flooding hazards associated with the storm water run-off outweighs the need to protect the riparian woodland habitat which exists along and within a portion of the channel.

2.1.3 Unavoidable Impacts of the Eucalyptus Business Park Specific Plan EIR Addendum

The Certified EIR for the Approved Project found the following significant unavoidable environmental effects:

1. Air Quality. Implementation of the Approved project would result in short and long term air quality impacts.

2. Agricultural Resources. It was found that development of the Approved Project would result in the loss of Prime agricultural soils in the City of Chino and County of San Bernardino.
3. Biological Resources. It was found that development of the Approved Project would result in the loss of riparian Woodland habitat.

All other impacts were either determined to have no or less than significant impact, or less than significant with mitigation incorporated.

As required by Section 15091 of the California Environmental Quality Act, a Statement of Overriding Considerations was prepared as the Approved Project had one or more significant environmental effects identified which could not be mitigated. These findings concluded that with regard to loss of prime agricultural soils, the General Plan historically designated the Project Site for uses which would occur under the Approved Project. The findings ultimately found that with regard to short and long-term air quality impacts it would be economically and technically infeasible to further mitigate impacts. The findings also declared that it would also be economically and technically infeasible to further mitigate impacts with regard to the loss of Riparian Woodland Habitat.

2.1.4 Cumulative Impacts

Cumulative impacts in this case refer to the contribution of the proposed specific plan with other past, present, and reasonably foreseeable future projects within a regional setting. The Certified EIR studied cumulative impacts with regard to implementation of the Eucalyptus Business Park Specific Plan. The following are cumulative impacts associated with the Approved Project:

Land Use and Earth Resources

It was found that Class I and III soils would be converted to urban uses, contributing to the decline in availability of prime soils for agricultural use in the City of Chino and County of San Bernardino.

Transportation/Circulation

It was found that the Approved Project would contribute to the congestion and burdens currently placed on regional freeways and roadways.

Air Quality

Due to the existing poor air quality of the region, it was determined that the Approved Project would contribute with other past, present, and future projects in further degrading the air basin

Public Services and Utilities

It was found that the Eucalyptus Business Park Specific Plan would have a cumulative impact on public services and utilities when considering the burden placed on services and utilities by other users and proposed users in the region.

2.1.5 Adopted General Plan

The City of Chino General Plan was adopted in July 2010. The associated General Plan EIR included growth projections for the City of Chino, as follows:

	Existing Conditions (2007)	SCAG 2025 Estimate	Current General Plan (2025)	Proposed General Plan (2025)	Focused Growth Plan (2025)
Housing Units	23,012	25,818	38,649	38,814	39,781
Population	84,964	100,142	140,864	141,067	143,556
Jobs	50,187	59,060	79,462	83,255	81,633

The cumulative growth projections included in the adopted General Plan assume buildout of the Approved Project.

2.1.6 Plan Area

The intent of the Eucalyptus Business Park Specific Plan (Approved Project) proposed to comprehensively develop approximately 430 acres of land for commercial and industrial uses. The Eucalyptus Business Park Specific Plan was approved by the City of Chino Planning Commission on September 17, 1990, and subsequently by the City Council on December 18, 1990. Since its adoption, various land holdings and market conditions have generated the request for the ability to develop a high quality large industrial, manufacturing and warehouse/distribution business park in the easterly portion of the specific plan boundaries. In an attempt to accommodate this land usage, an amendment to the specific plan was adopted that addressed these specific needs.

2.2 Environmental Setting

2.2.1 Existing Land Use

The Plan Area includes the portion of the Specific Plan Area that has not yet been constructed. The Project Site is located in an area generally characterized by industrial, commercial, residential on the other side of SR-71, and auto mall uses. The Project Site is a relatively flat sheet flowing towards the south and southeasterly direction towards adjacent properties. The Project Site consists of a 4.12-acre parcel of land (Assessor's Parcel Number (APN) 102-521-129). The survey area is in a dense urban area consisting of commercial buildings and State Route 71 bordering the western

side of the Project Site (Figure 1, Project Site). The Project Site is presently vacant, undeveloped land covered with seasonal grasses.

2.2.2 Surrounding Land Uses

Table 1, Surrounding Land Uses and Setting shows the existing land use and zoning designations for the Project Site and surrounding area.

Table 1. Surrounding Land Uses and Setting

Location	Land Use/Zoning Designation
Project Site	Eucalyptus Business Park Specific Plan Area- Auto Mall Zoning Designation, Affordable Housing Overlay District
North	Eucalyptus Business Park Specific Plan Area- Office Commercial Land Use District, Business Park Land Use District, Manufacturing Land Use District, Commercial Land Use District, Affordable Housing Overlay District
South	State Route 71
East	Eucalyptus Business Park Specific Plan Area- Auto Mall Land Use District, Commercial Land Use District, Affordable Housing Overlay District
West	State Route 71

The Specific Plan Area is surrounded by commercial, industrial, residential, vacant areas and the 2,500-acre California Institution for Men (CIM). To the north of the Specific Plan Area is the 380-acre Majestic Spectrum Specific Plan Area and various industrial developments. West of the site, along Chino Valley Freeway, is several retail establishments. Farther northwest near Pipeline Avenue, are single family residences. Southeast of the Plan Area, near Central Avenue, is the Los Serranos Business Park. An industrial park and the Carbon Canyon Water Reclamation Facility are located south of the Specific Plan Area across the Chino Hills Parkway. Farming operations are located to the northwest and south.

Within the Specific Plan Area, the Project Site is also surrounded by commercial, residential, and vacant areas. The site is bounded by the Extended Stay America hotel to the northwest, Corporate Center Avenue and Romona Corporate Center which includes more commercial and industrial uses to the northeast, Chino Auto Center parking lot to the southeast, and State Route 71 to the southwest.

Access to the Plan Area is provided by the surrounding street grid system. The Project Site is directly accessed via one full access driveway along Corporate Center Avenue and an Emergency Vehicle Access (EVA) only driveway that is accessed through the adjacent Extended Stay America hotel driveway at the southwestern corner of the Project Site. State Route 71 provides regional access to the Project Site.

2.2.3 General Plan Land Use and Zoning

The Project Site is currently designated as Auto Mall in the Eucalyptus Business Park Specific Plan and designated as Office Commercial in the City's General Plan Land Use Element. The City has also included the Project Site as a housing inventory site in its Housing Element, and through zoning has applied the Affordable Housing Overlay (Affordable Housing Overlay) as to the Project Site, and the City has adopted applicable development standards for the overlay, with which the Project has been designed to comply except to the extent permitted by the State Density Bonus Law. According to Section 20.09.090, Overlay Districts for Affordable Housing, of the City's Municipal Code, the Affordable Housing Overlay district regulations would apply in the case of a conflict with the base zoning district regulations when a housing project is proposed.

2.2.3.1 City of Chino General Plan

The Project Site is currently designated as Auto Mall in the Eucalyptus Business Park Specific Plan and designated as Office Commercial in the City's General Plan Land Use Element. The Proposed Project includes the development of 194,579 square feet of residential use and 3,281 square feet of associated amenity uses and open space for a total square footage of 197,860 square feet. The Proposed Project Site is located in an adopted Affordable Housing Overlay district as designated by the City's 6th Cycle Housing Element Update. The intent of this overlay is to permit standalone residential uses on the sites identified with the "AHO" naming convention within the "Overlay Zone" which includes the Project Site.

2.2.3.2 City of Chino Housing Element

The City is able to accommodate its above moderate and moderate-income RHNA allocation through existing specific plan capacity and the projected development of accessory dwelling units (ADUs). To accommodate a portion of the remaining lower income RHNA need, the City of Chino has established an Affordable Housing Overlay (AHO) over approximately 90.6 acres to meet a shortfall of 2,233 dwelling units at the very low and low income levels, including applicable development standards to facilitate maximum densities, permitted uses, and all other components required as part of the City's Zoning Code, which promotes the development of residential uses at up to 30 dwelling units per acre (du/ac) if the established affordability requirements are satisfied. All candidate sites identified, including the Project Site, are directly adjacent to existing public roadways with full infrastructure availability to service the sites. Section 20.09.090, Overlay Districts for Affordable Housing, has been adopted into the City's Municipal Code. The AHO allows residential uses where they would not otherwise be allowed and provide for additional density in return for projects providing more affordable housing. The AHO is intended for standalone housing projects.

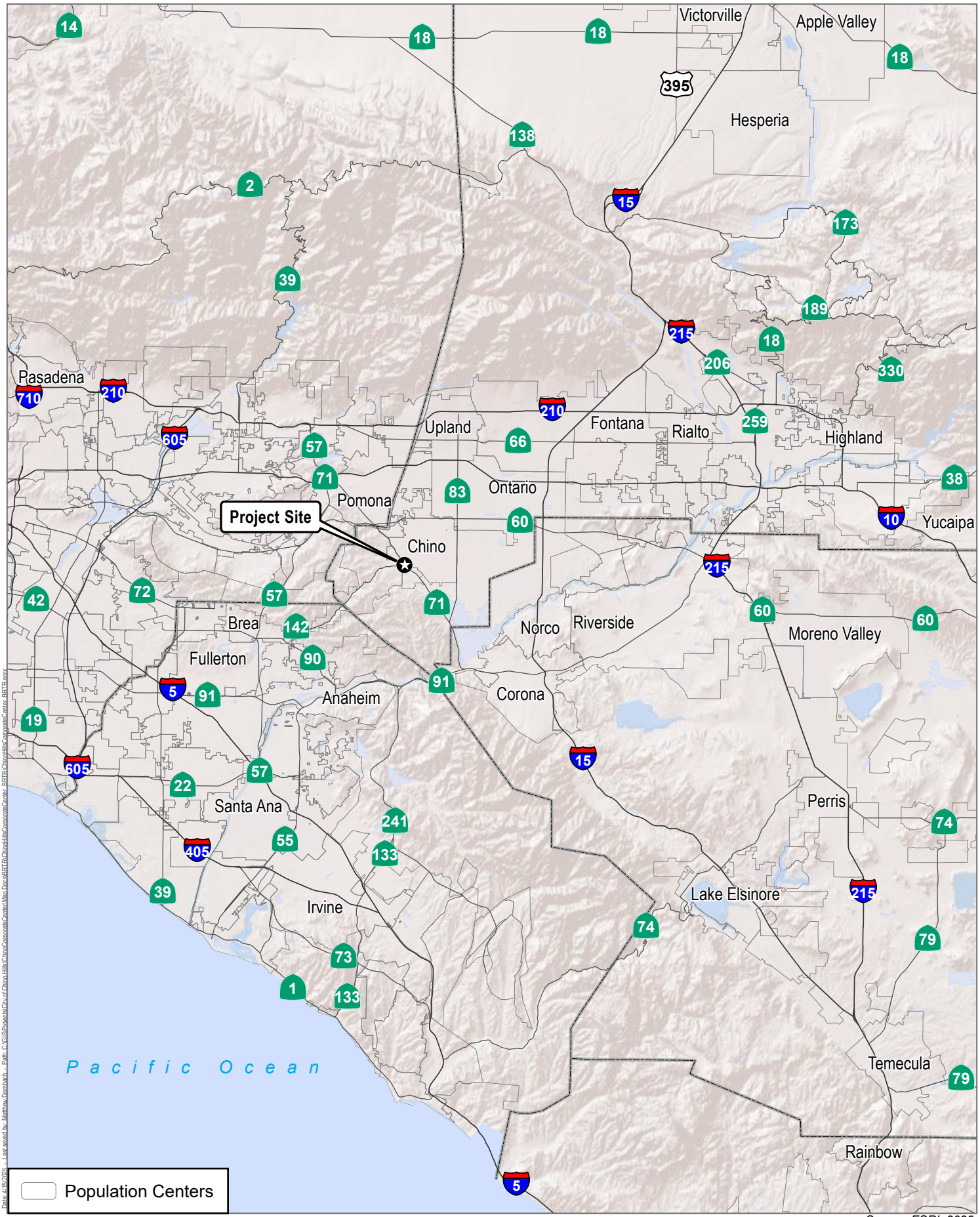
2.3 Regulatory Setting

2.3.1 SB 330

Effective January 1, 2020, SB 330 aims to increase residential unit development, protect existing housing inventory, and expedite permit processing. Under this legislation, municipal and county agencies are restricted in ordinances and polices that can be applied to residential development. With regard to vesting, a housing development project shall be subject only to the ordinances, policies, and standards adopted and in effect when a preliminary application is submitted, which is very early in the process and predates the vesting afforded by a vesting tentative map. If the applicant alters the project after submittal of the preliminary application in a way that changes the residential unit number or square footage by 20% or more, the project shall not be deemed to have submitted a preliminary application.

SB 330 limits the number of public hearings that can be held on a housing development project to a maximum of five. This limit applies to housing development projects that comply with applicable, objective general plan and zoning standards in effect at the time an application is deemed complete. The five-hearing limit includes hearings held by various decision-making bodies, including design review boards, planning commissions, and city councils.

The Proposed Project includes a vested SB 330 application.



Source: ESRI, 2025.

Harris & Associates

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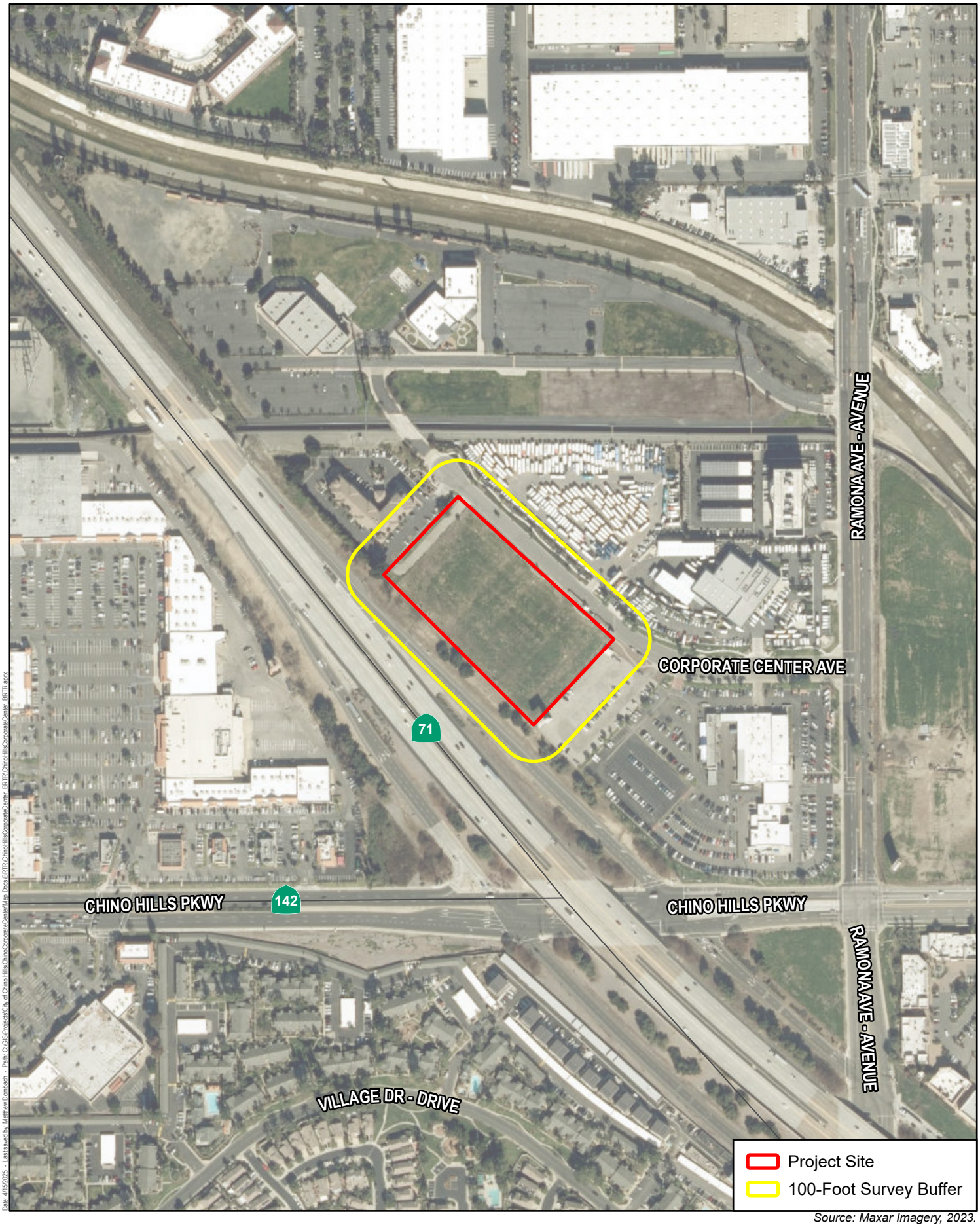
Miles

Figure 1

Regional Location

EIR Addendum

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Source: Maxar Imagery, 2023.

Harris & Associates

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Figure 2

Project Site

EIR Addendum

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Section 3 Project Description

3.1 Project Background

The Eucalyptus Business Park Specific Plan EIR was certified in 1990. The Approved Project consisted of the development of the 430-acre (7,420,000 square feet) Plan Area under a Specific Plan consisting of the construction of 203 acres of manufacturing uses, 52 acres of commercial/office uses, 73 acres of business park uses, 10 acres of commercial uses, 20 acres dedicated to auto mall use, and the remaining 72 acres dedicated to the channel, Southern California Edison (SCE) Easement, and streets. The Eucalyptus Business Park Specific Plan is bounded by Eucalyptus Avenue to the north, the Corona Expressway (SR-71) to the west, Chino Hills Parkway to the south, and Central Avenue to the east. The Eucalyptus Business Park Specific Plan was amended many times, bust most recently in March of 2022 to allow for recreational vehicle sales as a permitted use within the Auto Mall (AM) land use designation.

3.1.1 Previous Environmental Analysis

In 1990, the City of Chino certified the EIR for the Eucalyptus Business Park Specific Plan (State Clearinghouse No. 89070310), herein referred to as the "Certified EIR." The EIR determined that most potential impacts could be mitigated to a less than significant level. However, it concluded that the following topic areas would result in a significant unavoidable adverse impact even after mitigation:

- Air Quality. Implementation of the Approved project would result in short and long term air quality impacts.
- Agricultural Resources. It was found that development of the Approved Project would result in the loss of Prime agricultural soils in the City of Chino and County of San Bernardino.
- Biological Resources. It was found that development of the Approved Project would result in the loss of riparian Woodland habitat.

Implementation of the Eucalyptus Business Park Specific Plan, is herein referred to as the "Approved Project."

3.2 Project Description

The Proposed Project includes 110 multifamily residential dwelling units consisting of 194,579 square feet and 3,281 square feet of residential amenities for a total of 197,860 square feet, see Figure 3, Site Plan. This would include 29,260 square feet of common open space and 11,028 square feet of private open space for a combined total of 40,288 square feet of open space. The Proposed Project would also include 231 parking spaces (217 garage parking and 14 open spaces) and 6 bicycle parking spaces. The Proposed Project would also include exterior 54-inch balcony

barriers strategically placed to block direct line of sight from the adjacent Chino Valley Freeway. A perimeter wall would also be constructed prior to the start of construction on site.

The Proposed Project's building height would be 38 feet, floor area ratio would be 1.11 where 1.25 is allowed, and lot coverage would be 0.42. See Figure 4, Street Elevations for elevation views from Chino Corporate Center Avenue and the Chino Valley Freeway. See Figures 5a through 5g, Exterior Elevations for elevations of both the residential buildings and amenity buildings. The Proposed Project would also include 29,748 square feet of landscaping, see Figure 6, Landscape Plan.

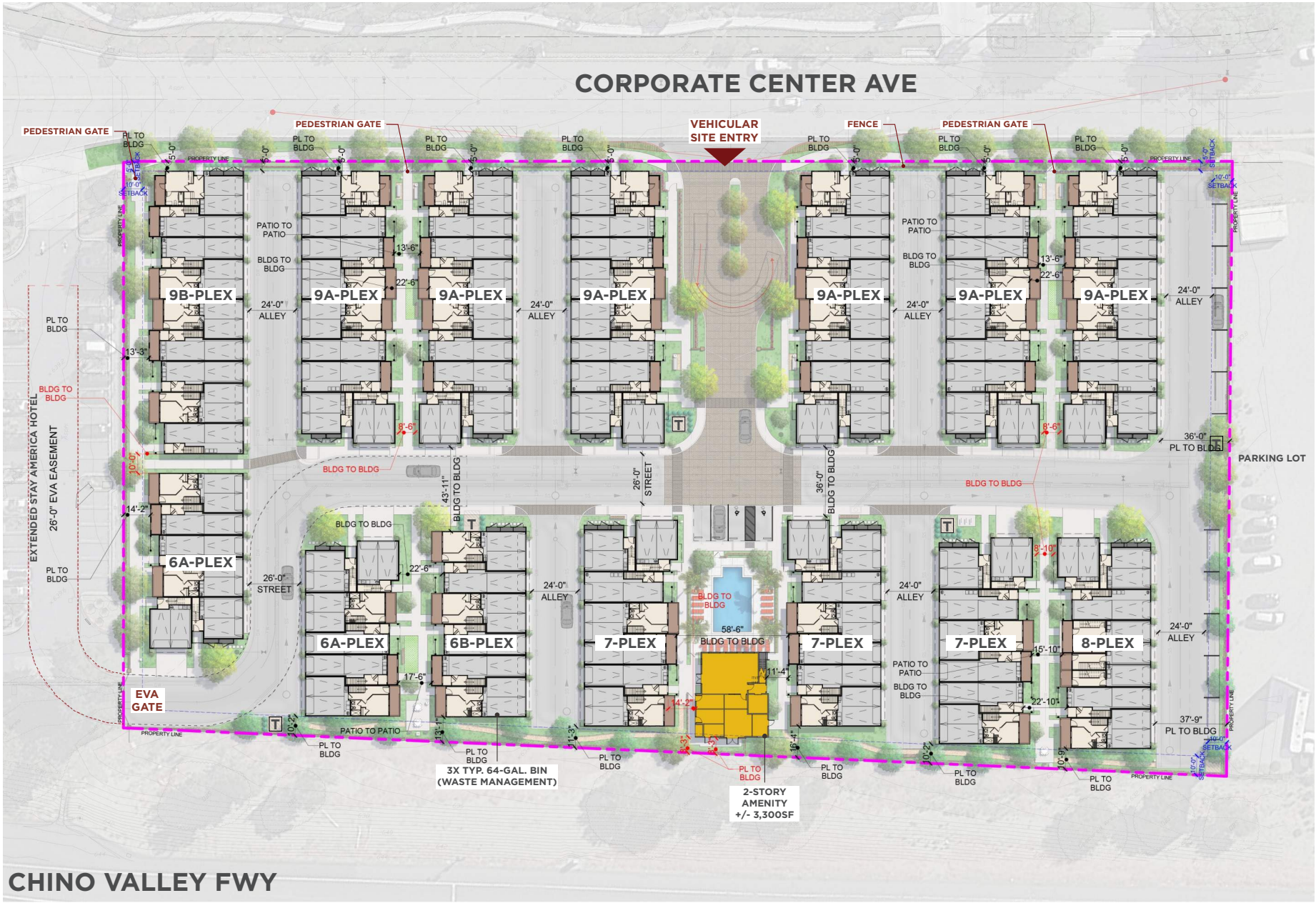
3.3 Project Phasing

The Proposed Project would occur in one phase upon approval of necessary discretionary actions and permits.

3.4 Discretionary Actions

This Addendum to the Certified EIR is intended to serve as the primary environmental document for all future actions associated with the Proposed Project, including all discretionary approvals requested or required to implement the Proposed Project. In addition, this Addendum is the primary reference document for the formulation and implementation of the MMRP. All the approved, applicable measures from the Certified EIR have been incorporated into this document. This document is intended to provide sufficient information to allow the City of Chino and any other permitting agencies to evaluate the potential impacts from construction and implementation of the Proposed Project. The following discretionary actions will be needed to implement the Proposed Project:

- Site Approval
- Easement along Corporate Center Avenue
- Residential Density Bonus



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Source: BCT Development 2025; TCA Architects 2025.

Harris & Associates

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Feet

Figure 3

Site Plan

EIR Addendum

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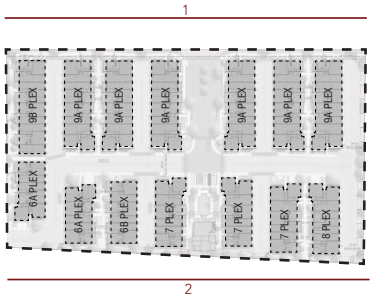
1. CORPORATE CENTER AVE.



2. CHINO VALLEY FREEWAY

80'
40'
20'

KEY PLAN



MATERIAL LEGEND

- S — STUCCO
- RT — ROOF TILE
- VW — VINYL WINDOW
- MR — METAL RAILING
- FC — FOAM CORNICE

ARCHITECTURAL DETAILS

- MA — METAL AWNING
- TA — TILE AWNING
- WH — SILL & HEADER
- OM — METAL WORK
- FT — FOAM TRIM
- CL — CORBEL
- AE — ARC ENTRY
- WS — WINDOW SHUTTERS
- MS — WIN. METAL SHELF
- WW — WIN. WOOD SHELF
- GD — GABLE DETAILS

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Source: BCT Development 2025; TCA Architects 2025.

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Figure 4

Street Elevations

EIR Addendum

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1. FRONT

2. SIDE



3. REAR

4. SIDE



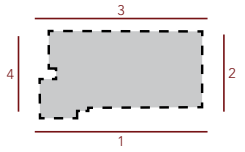
MATERIAL LEGEND

- S STUCCO
- RT ROOF TILE
- VW VINYL WINDOW
- MR METAL RAILING
- FC FOAM CORNICE

ARCHITECTURAL DETAILS

- MA METAL AWNING
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- WH SILL & HEADER
- OM METAL WORK
- FT FOAM TRIM
- CL CORBEL
- AE ARCH ENTRY
- WS WINDOW SHUTTERS
- MS WIN. METAL SHELF
- WW WIN. WOOD SHELF
- GD GABLE DETAILS

KEY PLAN



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Source: BCT Development 2025; TCA Architects 2025.

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Figure 5a

Exterior Elevations

EIR Addendum

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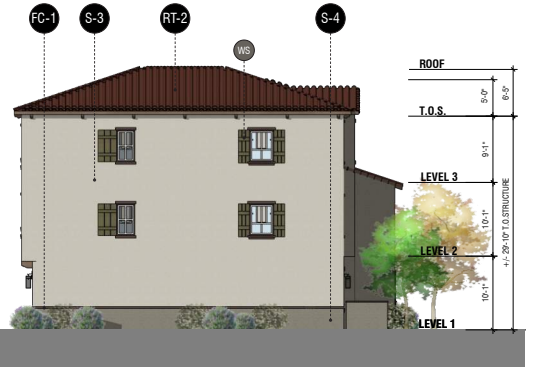


1. FRONT

2. SIDE



3. REAR



4. SIDE



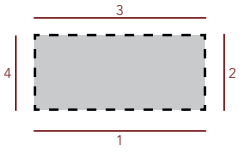
MATERIAL LEGEND

- S — STUCCO
- MR — METAL RAILING
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- FC — FOAM CORNICE
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ARCHITECTURAL DETAILS

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- AE — ARCH ENTRY
- WS — WINDOW SHUTTERS
- MS — WIN. METAL SHELF
- WW — WIN. WOOD SHELF
- GD — GABLE DETAILS

KEY PLAN



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Source: BCT Development 2025; TCA Architects 2025.

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Figure 5b

Exterior Elevations

EIR Addendum

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1. FRONT

2. SIDE



3. REAR

4. SIDE



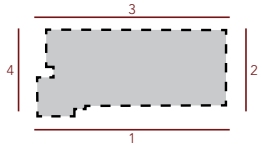
MATERIAL LEGEND

- S — STUCCO
- RT — ROOF TILE
- VW — VINYL WINDOW
- MR — METAL RAILING
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ARCHITECTURAL DETAILS

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- FT — FOAM TRIM
- CL — CORBEL
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- MS — WIN. METAL SHELF
- WW — WIN. WOOD SHELF
- GD — GABLE DETAILS

KEY PLAN



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Source: BCT Development 2025; TCA Architects 2025.

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Figure 5c

Exterior Elevations

EIR Addendum

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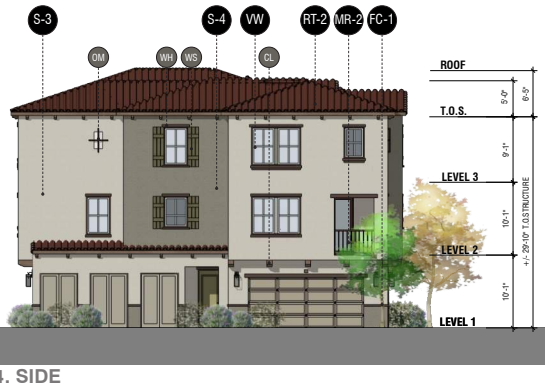


1. FRONT

2. SIDE



3. REAR



4. SIDE



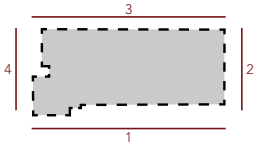
MATERIAL LEGEND

- S — STUCCO
- MR — METAL RAILING
- RT — ROOF TILE
- FC — FOAM CORNICE
- VW — VINYL WINDOW

ARCHITECTURAL DETAILS

- MA — METAL AWNING
- OM — METAL WORK
- AE — ARCH ENTRY
- WW — WIN. WOOD SHELF
- TA — TILE AWNING
- RT — RAFTER TAIL
- WS — WINDOW SHUTTERS
- GD — GABLE DETAILS
- WH — SILL & HEADER
- CL — CORBEL
- MS — WIN. METAL SHELF

KEY PLAN



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Source: BCT Development 2025; TCA Architects 2025.

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Figure 5d

Exterior Elevations

EIR Addendum

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1. FRONT

2. SIDE



3. REAR

4. SIDE



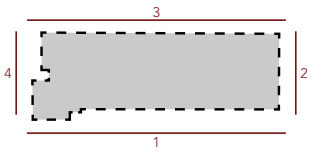
MATERIAL LEGEND

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- MS — WIN. METAL SHELF
- WW — WIN. WOOD SHELF
- GD — GABLE DETAILS

KEY PLAN



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Source: BCT Development 2025; TCA Architects 2025.

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Figure 5e

Exterior Elevations

EIR Addendum

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1. FRONT

2. SIDE



3. REAR

4. SIDE

32'

16'

8'

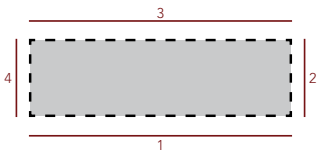
MATERIAL LEGEND

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- GD — GABLE DETAILS

KEY PLAN



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Source: BCT Development 2025; TCA Architects 2025.

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Figure 5f

Exterior Elevations

EIR Addendum

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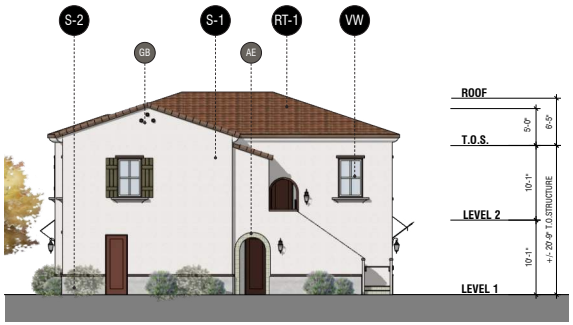
1. FRONT



2. SIDE



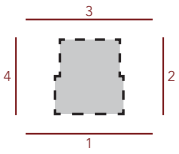
3. REAR



4. SIDE



KEY PLAN



MATERIAL LEGEND

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- MS — WIN. METAL SHELF

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Source: BCT Development 2025; TCA Architects 2025.

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Figure 5g

Exterior Elevations

EIR Addendum

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MAJOR AMENITIES:	MINOR AMENITIES:
• (1) Swimming Pool • (1) Fitness Center	• (3) Seating Nodes • (2) BBQ Areas • (2) DG Trails • (2) Lawn Play Areas



LEGEND

1. Vehicular Gated Entry with Integral Colored Paving and Topcast Etch Finish
2. Amenity Building - Refer to Architectural Plan
3. Swimming Pool and Pool Deck with Integral Color and Topcast Etch Finish
4. Paseo with Lawn Play Areas, Plants & Benches
5. Perimeter Screening Trees with Landscape
6. Undulating Right-of-Way Sidewalk
7. Parking Stalls
8. Pedestrian Access Gate - Painted Steel
9. Transformer
10. Relocated Trash Enclosure
11. Perimeter Privacy Wall & Pilasters- Split-face CMU
12. Enhanced Paving Crosswalk with Integral Color and Topcast Etch Finish
13. Emergency Vehicle Access Gate - Painted Steel
14. Site Distance Triangle (Shown in Red)
15. Bike Rack - Stainless Steel
16. Mailboxes- Painted Steel
17. Pet Waste Station - Painted Steel
18. Waste/Recycle Receptacle - Steel & Wood
19. BBQ Patio with Grills & Seating
20. D.G. Walking Trail with Log Benches
21. Seating Node at Pedestrian Entries
22. Street Trees at 30'-0" On-Center, Typical

NOTES:
Landscape Plans will meet Municipal Code requirements for types and quantities.

Refer to Sheet L-5 for Hardscape Material and Site Furnishing Detail.

Refer to Sheet L-7 for Wall, Fence and Gate Details.

C:\GIS\Projects\City of Chino Hills\ChinoCorporateCenter\Map Docs\EIR

Source: BCT Development 2025; TCA Architects 2025.

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Figure 6

Landscape Plan

EIR Addendum

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Section 4 Environmental Checklist

4.1 Background

1. Project title:	Corporate Center Avenue (APN:1025-211-29)/Eucalyptus Business Park Specific Plan Addendum
2. Lead agency name and address:	City of Chino 13220 Central Avenue Chino, California 91710
3. Contact person name, address, and phone number:	Maria Staar, Senior Planner City of Chino 13220 Central Avenue Chino, California 91710 (909) 334-3333/MStaar@cityofchino.org
4. Project location:	Corporate Center Avenue 102-521-129
5 Project sponsor's name and address:	Karen Alves BCT Development 1400 Newport Center Dr., Suite 200 Newport Beach CA 92660
6. General plan designation:	Office Commercial
7. Zoning:	Auto Mall, and Affordable Housing Overlay
8. Description of project:	Refer to Section 1, Purpose of an Addendum, of this Addendum
9. Surrounding land uses and setting:	Refer to Section 2 of this Addendum
10. Other public agencies whose approval is required:	None

4.2 Environmental Factors Potentially Affected

The environmental factors checked below would be potentially affected by the project, involving at least one impact that would represent a new significant environmental effect, a substantial increase in the severity of a significant impact previously identified, or new information of substantial importance, as indicated by the checklist on the following pages.

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

4.3 Determination (to Be Completed by the Lead Agency)

On the basis of this initial evaluation:

☐ I find that the Proposed Project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☐ I find that although the Proposed Project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will 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 measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☒ I find that although the Proposed Project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the Proposed Project, nothing further is required.

Signature
Maria Staar, Senior Planner, City of Chino

Date

4.4 Evaluation of Environmental Impacts

The scope of the City's review of the proposed Corporate Center Avenue (APN:1025-211-29) (Proposed Project) is limited by provisions set forth in CEQA and the State CEQA Guidelines. This review is limited to evaluating the environmental effects associated with the Proposed Project to the environmental effects of the Final EIR. This Addendum also reviews new information, if any, of substantial importance that was not known and could not have been known with the exercise of reasonable due diligence at the time the Final EIR was certified. This evaluation includes a determination as to whether the changes proposed for the Project would result in any new significant impacts or a substantial increase in a previously identified significant impact.

Although State CEQA Guidelines Section 15164 does not stipulate the format or content of an Addendum, the topical areas identified in the City of Chino Environmental Checklist (Checklist) were used as guidance for this Addendum. This comparative analysis provides the City with the factual basis for determining whether any changes in the Project, any changes in circumstances, or any new information since the Final EIR was certified would require additional environmental review or preparation of a Subsequent EIR or Supplemental EIR.

Pursuant to Section 15162 of the State CEQA Guidelines, the City has determined, on the basis of substantial evidence in the light of the whole record, that implementation of the Corporate Center Avenue (APN:1025-211-29) Project does not propose substantial changes to the Specific Plan Project (Approved Project); no substantial changes in circumstances would occur which would require major revisions to the Final EIR; and no new information of substantial importance has been revealed since the certification of Final EIR that would result in either new significant effects or an increase in the severity of previously analyzed significant effects.

A MMRP was adopted as a part of the Final EIR that minimized impacts associated with implementation of the Approved Project. The previously adopted mitigation measures applicable to the proposed Project would be imposed as conditions of the Project. As described in this Addendum, mitigation measures proposed in the Final EIR have previously been satisfied or are no longer applicable.

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Section 5 Environmental Analysis

This section provides evidence that none of the conditions in Section 15162 of the CEQA Guidelines will require new analysis. In accordance with Section 21166 of CEQA and 15162 of the CEQA Guidelines, and relevant case law, the baseline for this determination is the Approved Project. The section will briefly summarize the conclusions of the 1990 Certified EIR and then discuss whether or not the Proposed Project is consistent with the findings in that document. Applicable mitigation measures are referenced from the 1990 Certified EIR, are also provided in each section.

As discussed previously, this document is an addendum to the 1990 Certified EIR. The Proposed Project is located in the Eucalyptus Business Park Specific Plan Area.

The mitigation program identified to reduce potential impacts of the Proposed Project consists of Standard Requirements (SRs) and mitigation measures (MMs). The components of the mitigation program are described below.

- Standard Requirements. Existing SRs are based on local, state, or federal regulations or laws that are frequently required independently of CEQA review and also serve to offset or prevent specific impacts. Typical SRs include compliance with the provisions of the California and local building codes, South Coast Air Quality Management District rules, City ordinances, and local agency impact fees, among others.
- Mitigation Measures. Where a potentially significant environmental effect has been identified and is not reduced to a level considered less than significant through the application of SRs, mitigation measures have been provided. All applicable measures have been carried through from the 1990 Eucalyptus Business Park Specific Plan EIR. These mitigation measures have been incorporated into the MMRP for this Addendum. Any modifications to the mitigation measures from the Certified EIR are shown as ~~strikethrough~~ for deleted text and **bold** for new, inserted text. It has been determined that for any modified mitigation measures, the modifications are minor and are not the result of any of the situations described in CEQA Guidelines Section 15162.

The City may substitute, at its discretion, any mitigation measure (and timing thereof) that has: (1) The same or superior result as the original mitigation measure and (2) the same or superior effect on the environment. The City of Chino Planning Division, in conjunction with any appropriate agencies or City departments, shall determine the adequacy of any proposed "environmental equivalent timing" and, if deemed necessary, may refer said determination to the Planning Commission.

5.1 Aesthetics

5.1.1 Summary of Previous Environmental Analysis

The Certified EIR evaluated potential impacts to aesthetics based upon the adoption and implementation of the Eucalyptus Business Park Specific Plan. The Specific Plan included the development of 7.4 million square feet of manufacturing, industrial, warehouse/distribution, commercial, commercial/office, auto mall, and business park land uses within the City of Chino. Aesthetics and visual impacts for the Specific Plan are included in Section VI, Impacts Found Not to Be Significant, as the topic was evaluated previously in the Initial Study prepared for the Eucalyptus Business Park Specific Plan (Appendix A to the Certified EIR). It was determined that there would be no change to scenic views or vistas as views of existing residential areas, and public lands and roads would not be significantly impacted. It was also determined that there would not be any generation of light or thermal pollution. It was determined that implementation of the Specific Plan would not result in a substantial negative aesthetic impact. It was also found that there would be no change to scenic views or vistas as views of existing residential areas, and public lands and roads would not be significantly impacted.

5.1.2 Impacts Associated with the Proposed Project

Except as provided in Public Resources Code Section 21099, would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☐	☒	☐
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☐	☒	☐

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☐	☒	☐
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☐	☒	☐

Comments

a) Would the project have a substantial adverse effect on a scenic vista?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Proposed Project Site is located in an adopted housing overlay zone (Affordable Housing Overlay) as designated by the City's 6th Cycle Housing Element Update. This allows for residential use in the area currently zoned as Auto Mall. The Project Site is currently vacant and contains no structures. The Proposed Project is in an urbanized portion of the City of Chino and would not be characterized as being as part of a scenic vista, nor would the Proposed Project block existing scenic vistas.

The Approved Project analyzed the 430-acre Eucalyptus Business Park Specific Plan area that consisted of primarily undeveloped agricultural land and dairy operations. The Project Site is no longer used for agricultural purposes. The Project Site is in a dense urban area consisting of commercial buildings and is presently vacant, undeveloped land covered with seasonal grasses. The Proposed Project falls within the development footprint of what was previously analyzed under the Approved Project. Additionally, there would be no change to existing internal landscaping/screening which acts to soften potential visual and aesthetic impacts.

Additionally, lighting and signage would continue to be in conformance with applicable Eucalyptus Business Park Specific Plan/City standards, including those outlined in Chapter V, Urban Design Guidelines, Section F, Lighting, of the EBSP. More specifically, the Proposed Project would conform with EBSP Goals C.2.b, C.2.d, and Policies C.2.b. (1)-(4) C.2.d. (1), (2) with regard to lighting.

Lighting within the EBPSP area should be designed to serve functional, safety, and aesthetic purposes. The aesthetic effect of lighting is an important design element that will identify the EBPSP area with a special quality of activity. Onsite, exterior lighting should be consistent in height, spacing, color and type of fixture. Onsite lighting should also be compatible with adjacent street lighting. The lighting of buildings, especially the tops of multi-storied buildings is encouraged, as are other innovative uses of light. Additionally, the Project would be required to comply with the goals and policies contained in the GPU Community Character Element, including but not limited to Objective CC-1.1; Policies P1, P2, P5, and P6; Objective CC-4.1, Objective CC-4.2, Objective CC-4.3, and Objective CC-4.4 under Goal CC-4; and Goal CC-6. Mandatory compliance with applicable goals and policies of the EBSP and General Plan would further ensure that the Proposed Project would not have a substantial adverse effect on a scenic vista. Final designs of the Proposed Project facilities including, but not limited to, the proposed buildings, landscape/hardscape features, and lighting configurations would be required to conform to the Development Standards for the City's Affordable Housing Overlay District (Chino Municipal Code 20.09 Overlay Districts, 20.09.090 Overlay Districts for Affordable Housing). The City would review the final Project designs for conformance with applicable Affordable Housing Overlay District requirements prior to the issuance of development permits.

As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

b) Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The two highways located in the vicinity of the Project Site (State Route 71 and State Route 142) are not designated as state scenic highways. The Project Site does not contain any State- or County-designated scenic highways. Nor are there any state- or County-designated scenic highways nearby. Therefore, as under the Approved Project, no impact would occur due to implementation of the Proposed Project, and no additional mitigation is necessary. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

c) Would the project, in non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Certified EIR prepared for the Specific Plan concluded that implementation of the Specific Plan would not substantially degrade the existing visual character or quality of the Specific Plan Area. Like the Approved Project, the Proposed Project would change the site appearance as it would develop vacant land, however, as with the Approved Project, the Proposed Project would not result in a significant impact with regard to scenic quality. As previously discussed, the vacant Project Site is in an urbanized area with surrounding uses that included industrial, commercial, residential on the other side of SR-71, and auto mall uses. The Proposed Project Site is located in an adopted housing overlay zone (Affordable Housing Overlay) as designated by the City's 6th Cycle Housing Element Update. This allows for residential use in the area currently zoned as Auto Mall. As with the Approved Project, the Proposed Project would be designed to create visually attractive and compatible uses consistent with the policies identified in the Eucalyptus Business Park Specific Plan. The Proposed Project would not conflict with applicable zoning and other regulations governing scenic quality. The Proposed Project would include conforming with the landscape concept plan and the site design guidelines identified in the Eucalyptus Business Park Specific Plan. Therefore, the change in visual character would not significantly impact the site or the surrounding area.

As such, no new impacts would occur due to construction of the Proposed Project and no additional mitigation measures are necessary. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

d) Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. As with the Approved Project, the Proposed Project would create new sources of light and glare in the Eucalyptus Business Park Specific Plan Area due to greater intensity and density of development as a result of implementation of the Approved Project. The Proposed Project would comply with the lighting specifications and implementation of design features as outlined in the "General Lighting Guidelines" identified in the Eucalyptus Business Park Specific Plan (Chapter V, Section F). Further, the Proposed Project would comply with Section 20.10.090 (Outdoor Lighting) of the City's Municipal Code. Section 20.10.090 requires, among other items, that "Lighting on private and public property shall be designed to provide safe and adequate lighting while minimizing light spillage to adjacent properties" (Chino, 2023).

The Project Site was previously designated for Auto Mall in the Eucalyptus Business Park Specific Plan. According to the City's General Plan EIR, light pollution in Chino may result from night-time illumination of industrial and commercial buildings and prison facilities. As the Proposed Project would include the development of 110 multifamily residential dwelling units consisting of 194,579 square feet and 3,281 square feet of residential amenities, potential lighting impacts would improve under the Proposed Project compared to the Approved Project as residential uses were not identified as a use that would contribute substantially to light pollution in the City.

Additionally, as the Proposed Project falls within the development footprint analyzed under the Approved Project, light and glare impacts would not be more severe than what was identified under the Certified EIR. The Proposed Project would not modify the existing lighting, and lighting on the Project Site would continue to comply with the requirements of the Eucalyptus Business Park Specific Plan including those outlined in Chapter V, Urban Design Guidelines, Section F, Lighting, of the EBSP. More specifically, the Proposed Project would conform with EBSP Goals C.2.b, C.2.d, and Policies C.2.b. (1)-(4) C.2.d. (1), (2). Therefore, the Project would not introduce any new sources of lighting, nor would the Project create a new glare concern that was not already analyzed in the Certified EIR. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exist that would require the preparation of a subsequent EIR.

5.1.3 Mitigation Measures Identified in the 1990 EIR and Applicable to the Proposed Project

No mitigation was proposed in the Certified EIR, and no mitigation is necessary for the Proposed Project.

5.2 Agriculture and Forest Resources

5.2.1 Summary of Previous Environmental Analysis

The Certified EIR evaluated potential impacts to agricultural and forestry resources with regard to implementation of the Eucalyptus Business Park Specific Plan. The Certified EIR concluded that implementation of the Specific Plan would result in the removal of Class I and Class III soils that would preclude their use for agricultural production and thereby contribute to the decline of agricultural soils in the City of Chino as well as the County of San Bernardino resulting in a cumulative impact. The Certified EIR concluded that implementation of the Eucalyptus Business Park Specific Plan would result in a significant and unavoidable impact with regard to agricultural soils. In certifying the EIR for the Eucalyptus Business Park Specific Plan, the City adopted a Statement of Overriding Considerations pursuant to CEQA Guidelines § 15091, et seq., recognizing the Approved Project's impacts in this regard. Additional Agriculture and Forest Resources impacts for the Specific Plan are included in Section VI, Impacts Found Not to Be Significant, as the topic was evaluated previously in the Initial Study prepared for the Eucalyptus Business Park Specific Plan (Appendix A to the Certified EIR).

5.2.2 Impacts Associated with the Proposed Project

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:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
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?	☐	☐	☐	☒	☐
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	☐	☒
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))?	☐	☐	☐	☐	☒
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☐	☒
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?	☐	☐	☐	☒	☐

Comments

a) Would the project 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?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Certified EIR for the Eucalyptus Business Park Specific Plan concluded that implementation of the Specific Plan would result in a significant and unavoidable impact with regard to agricultural

soils. Unlike the Approved Project, according to Figure OSC-1 of the Open Space and Conservation Element of the City's General Plan, the Proposed Project is not in an area with Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. Additionally, the Proposed Project is within the envelope of development already analyzed, and therefore, no new significant impacts or impacts of greater severity than those previously identified in the Certified EIR would occur. No changes or new information would require preparation of a subsequent EIR.

b) Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?

No Impact. The Certified EIR prepared for the Specific Plan did not specifically address conflicts with zoning for agricultural use or Williamson Act Contracts. The Certified EIR did determine that the conversion of Class I and III soils would be converted to urban uses, contributing to the decline in availability of prime soils for agricultural use in the City of Chino and the County of San Bernardino. However, according to City of Chino General Plan Figure OSC-2 of the Open Space and Conservation Element of the City's General Plan, the Project Site is not engaged in a Williamson Act contract. Additionally, the Project Site is not zoned for agricultural use and no active Williamson Act contract applies to the Project Site, no impact would occur, the Proposed Project would not contribute to cumulatively considerable impacts, and no mitigation is necessary. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

c) Would the project 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))?

No Impact. The Certified EIR prepared for the Specific Plan did not specifically address conflict with zoning for forest land, timberland, or timberland zoned Timberland Production. However, the Project Site is not designated as forest land, is not forested or proposed for forestation. The proposed use change from the Specific Plan, which anticipated commercial use on the Project Site, whereas the Project proposes residential use consistent with the City's Affordable Housing Overlay would not result in any conflicts with existing zoning for forest land, timberland, or timberland zoned Timberland Production. Therefore, no impact would occur, and no mitigation is necessary. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

d) Would the project result in the loss of forest land or conversion of forest land to non-forest use?

No Impact. As previously discussed, the Certified EIR prepared for the Specific Plan did not specifically address impacts to forest land. However, neither the Project Site, nor the Planning Area as a whole, contains forest land. Implementation of the Proposed Project would not result in the loss of forest land or the conversion of forest land to non-forest uses. No impact would occur,

and no mitigation is necessary. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

e) Would the project 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?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. As previously discussed, significant impacts to agricultural resources were identified in the Certified EIR and were addressed in a Statement of Overriding Considerations adopted by the City. Like the Approved Project, the Proposed Project is also not designated or proximate to forest land. As the Proposed Project is within the envelope of development already analyzed, no new significant impacts or impacts of greater severity than those previously identified in the Certified EIR would occur. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

5.2.3 Mitigation Measures Identified in the 1990 EIR and Applicable to the Proposed Project

No mitigation was proposed in the Certified EIR, and none is required for the Project.

5.3 Air Quality

The Certified EIR evaluated potential impacts to air quality with regard to implementation of the Eucalyptus Business Park Specific Plan. The Certified EIR concluded that local air quality would be temporarily degraded, due to construction activities and there would be permanent increase in air pollutant emissions generated within the project site. With implementation of mitigation, it was found that the Proposed Project would still be above the threshold SCAQMD criteria resulting in a project-related and cumulative impact.

Since the certification of the 1990 Certified EIR for the Approved Project, the regulatory settings for the air quality have changed. The following discussion is provided to update conditions relative to development of the Proposed Project, but we note that none of the new information about regulatory setting rises to the level of requiring subsequent analysis per CEQA Guidelines Section 15162.

Regulatory Setting

Federal and State

The Clean Air Act (CAA) was passed in 1963 by the US Congress and has been amended several times. The 1990 Amendments represent the latest in a series of federal efforts to regulate the protection of air-quality in the United States. Geographic areas are classified under the national and California CAA as either in attainment or nonattainment for each criteria pollutant based on whether the ambient air-quality standards (AAQS) have been achieved. Both the State of California and the federal government have established health-based AAQS for seven air pollutants: ozone (O_3), nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), coarse inhalable particulate matter (PM_{10}), fine inhalable particulate matter ($PM_{2.5}$), and lead (Pb). Table 2 shows the most recently adopted AAQS.

Table 2. Ambient Air Quality Standards for Criteria Pollutants

Pollutant	Averaging Time	California Standard[1]	Federal Primary Standard[2]	Major Pollutant Sources
Ozone (O_3)[3]	1 hour	0.09 ppm	*	Motor vehicles, paints, coatings, and solvents.
	8 hours	0.070 ppm	0.070 ppm	
Carbon Monoxide (CO)	1 hour	20 ppm	35 ppm	Internal combustion engines, primarily gasoline-powered motor vehicles.
	8 hours	9.0 ppm	9 ppm	
Nitrogen Dioxide (NO_2)	Annual Arithmetic Mean	0.030 ppm	0.053 ppm	Motor vehicles, petroleum-refining operations, industrial sources, aircraft, ships, and railroads.
	1 hour	0.18 ppm	0.100 ppm	

Table 2. Ambient Air Quality Standards for Criteria Pollutants

Pollutant	Averaging Time	California Standard[1]	Federal Primary Standard[2]	Major Pollutant Sources
Sulfur Dioxide (SO_2)	Annual Arithmetic Mean	*	0.030 ppm	Fuel combustion, chemical plants, sulfur recovery plants, and metal processing.
	1 hour	0.25 ppm	0.075 ppm	
	24 hours	0.04 ppm	0.14 ppm	
Respirable Coarse Particulate Matter (PM_{10})	Annual Arithmetic Mean	20 µg/m^3	*	Dust and fume-producing construction, industrial, and agricultural operations, combustion, atmospheric photochemical reactions, and natural activities (e.g., wind-raised dust and ocean sprays).
	24 hours	50 µg/m^3	150 µg/m^3	
Respirable Fine Particulate Matter ($PM_{2.5}$)[4]	Annual Arithmetic Mean	12 µg/m^3	12 µg/m^3	Dust and fume-producing construction, industrial, and agricultural operations, combustion, atmospheric photochemical reactions, and natural activities (e.g., wind-raised dust and ocean sprays).
	24 hours	*	35 µg/m^3	
Lead (Pb)	30-Day Average	1.5 µg/m^3	*	Present source: lead smelters, battery manufacturing & recycling facilities. Past source: combustion of leaded gasoline.
	Calendar Quarter	*	1.5 µg/m^3	
	Rolling 3-Month Average	*	0.15 µg/m^3	
Sulfates (SO_4)[5]	24 hours	25 µg/m^3	*	Industrial processes.
Visibility Reducing Particles	8 hours	ExCo =0.23/km visibility of 10≥ miles	No Federal Standard	Visibility-reducing particles consist of suspended particulate matter, which is a complex mixture of tiny particles that consists of dry solid fragments, solid cores with liquid coatings, and small droplets of liquid. These particles vary greatly in shape, size and chemical composition, and can be made up of many different materials such as metals, soot, soil, dust, and salt.
Hydrogen Sulfide	1 hour	0.03 ppm	No Federal Standard	Hydrogen sulfide (H_2S) is a colorless gas with the odor of rotten eggs. It is formed during bacterial decomposition of sulfur-containing organic substances. Also, it can be present in sewer gas and some natural gas, and can be emitted as the result of geothermal energy exploitation.
Vinyl Chloride	24 hour	0.01 ppm	No Federal Standard	Vinyl chloride (chloroethene), a chlorinated hydrocarbon, is a colorless gas with a mild, sweet odor. Most vinyl chloride is used to make polyvinyl chloride (PVC) plastic and

Table 2. Ambient Air Quality Standards for Criteria Pollutants

Pollutant	Averaging Time	California Standard[1]	Federal Primary Standard[2]	Major Pollutant Sources
				vinyl products. Vinyl chloride has been detected near landfills, sewage plants, and hazardous waste sites, due to microbial breakdown of chlorinated solvents.

Source: CARB 2016.

Notes: ppm: parts per million; µg/m^3: micrograms per cubic meter

* Standard has not been established for this pollutant/duration by this entity.

[1] California standards for O_3, CO (except 8-hour Lake Tahoe), SO_2 (1 and 24 hour), NO_2, and particulate matter (PM_{10}, $PM_{2.5}$, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

[2] National standards (other than O_3, PM, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The O_3 standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m^3 is equal to or less than one. For $PM_{2.5}$, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard.

[3] On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.

[4] On December 14, 2012, the national annual $PM_{2.5}$ primary standard was lowered from 15 µg/m^3 to 12.0 µg/m^3. The existing national 24-hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 µg/m^3, as was the annual secondary standard of 15 µg/m^3. The existing 24-hour PM_{10} standards (primary and secondary) of 150 µg/m^3 also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

[5] On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. The 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

South Coast Air Quality Management District (SCAQMD)

The SCAQMD is the air pollution control agency for Orange County and the urban portions of the Counties of Los Angeles, Riverside, and San Bernardino, including Chino. The SCAQMD is the agency responsible for improving air quality in the South Coast Air Basin (SCAB) and ensuring that the National and California AAQS are attained and maintained. The attainment status for the SCAB is included in Table 3, *Attainment Status of Criteria Pollutants in the South Coast Air Basin*.

Table 3. Attainment Status of Criteria Pollutants in the South Coast Air Basin

Pollutant	State	Federal
Ozone – 1-hour	**Nonattainment**	**Nonattainment**[1]
Ozone – 8-hour	**Nonattainment (Extreme)**	**Nonattainment (Extreme)**
PM_{10}	**Nonattainment (Serious)**	Attainment/Maintenance
$PM_{2.5}$	**Nonattainment**	**Nonattainment (Serious)**
CO	Attainment	Attainment
NO_2	Attainment	Attainment/Maintenance
SO_2	Attainment	Attainment
Lead	Attainment	Nonattainment (Los Angeles County only[1])
All Others	Attainment/Unclassified	Attainment/Unclassified

Source: SCAQMD 2022

[1] The 1979 1-hour ozone NAAQS (0.12 ppm) was revoked, effective 6/15/2005; however, the SCAB has not attained this standard and therefore has some continuing obligations with respect to the revoked standard.

[2] In 2010, the Los Angeles portion of the SCAB was designated nonattainment for lead under the new federal and existing state ambient air quality standards as a result of large industrial emitters. Remaining areas within the SCAB are unclassified.

The SCAQMD is responsible for preparing the Air Quality Management Plan (AQMP) for the SCAB in coordination with the Southern California Association of Governments (SCAG) to achieve the AAQS. Since 1979, a number of AQMPs have been prepared.

On December 2, 2022, the SCAQMD adopted the 2022 AQMP, an update to the 2016 AQMP. The 2022 AQMP addresses strategies and measures to attain federal ozone standards. The 2022 AQMP builds on the strategies of the 2016 AQMP, including, stationary and mobile source emission reductions from regulatory control measures, incentive-based programs, co-benefits from climate programs, mobile source strategies, and reductions from federal sources such as aircrafts, locomotives, and ocean-going vessels. A key area of the 2022 AQMP is incentives for the accelerated deployment of zero emissions and low NOx technologies, as well as development of new technologies where low- and zero-emissions options are not currently available.

The 2022 AQMP proposes a total of 49 control measures for the 2022 AQMP. Thirty-one control measures target stationary sources, including NOx control measures, low-VOC measures, and leveraging co-benefits from climate and energy programs. The NOx measures are further grouped by residential, commercial, and large industrial combustion. As previously mentioned, many control measures focus on widespread deployment of low NOx technologies or development of new technologies, as well as implementation of State and local GHG emissions reduction regulations such as Title 24 energy code requirements and building electrification (e.g., Assembly Bill 3232). The remaining 18 control measures target mobile sources. They are facility-based mobile source measures, emission reductions from incentive programs, and partnerships with local, State, federal, and international entities.

The SCAQMD is also responsible for establishing and enforcing local air quality rules and regulations that address the requirements of federal and state air quality laws. Development projects in the City may be subject to the following SCAQMD rules (as well as others).

Rule 401, Visible Emissions. Prevents the discharge of pollutant emissions from an emissions source that results in visible emissions. Specifically, the rule prohibits the discharge of any air contaminant into the atmosphere by a person from any single source of emission for a period or periods aggregating more than 3 minutes in any 1 hour that is as dark as or darker than designated No. 1 on the Ringelmann Chart, as published by the U.S. Bureau of Mines.

Rule 402, Nuisance. Prevents the discharge of pollutant emissions from an emissions source that results in a public nuisance. Specifically, this rule prohibits any person from discharging quantities of air contaminants or other material from any source such that it would result in an injury, detriment, nuisance, or annoyance to any considerable number of people or to the public. Additionally, the discharge of air contaminants would also be prohibited where it would endanger the comfort, repose, health, or safety of any number of people or the public, or that cause, or have a natural tendency to cause, injury or damage to business or property. This rule does not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.

Rule 403, Fugitive Dust. Reduces the amount of particulate matter entrained in the ambient air as a result of anthropogenic (human-made) fugitive dust sources by requiring actions to prevent, reduce, or mitigate fugitive dust emissions.

Rule 1113, Architectural Coatings. Limits the VOC content of architectural coatings used on projects in the SCAQMD. Any person who supplies, sells, offers for sale, or manufactures any architectural coating for use on projects in the SCAQMD must comply with the current VOC standards set in this rule.

Rule 1403, Asbestos Emissions from Demolition/Renovation Activities. Specifies work practice requirements to limit asbestos emissions from building demolition and renovation activities, including the removal and associated disturbance of asbestos-containing materials.

5.3.1 Summary of Previous Environmental Analysis

The Certified EIR concluded that, even after the implementation of mitigation measures, the Approved Project would result in significant short-term and long-term air-quality impacts:

- **Short-term air quality impacts:** Construction of the Approved Project was determined to have the potential to result in significant and unavoidable impacts related to dust because dust levels and the potential reduction from best management practices could not be quantified.

- **Long-term air quality impacts:** Long-term operational impacts of the Approved Project were identified as a significant unavoidable impact due to project size, and the cumulative emissions contribution of 408,110 total daily vehicle miles. No adverse impacts were anticipated as a result of Approved Project energy use.

5.3.2 Impacts Associated with the Proposed Project

Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the Proposed Project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impacts/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☐	☒	☐
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☐	☒	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☐	☒	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☐	☒	☐

Comments:

Methodology

The 1990 EIR did not quantify construction emissions, and operational emissions were estimated for the entire Eucalyptus Business Park Specific Plan Area. In order to compare estimated emissions for the Project Site only, construction and operation criteria pollutant emissions are calculated using the California Emissions Estimator Model (CalEEMod), Version 2022.1. CalEEMod default inputs are assumed for the Approved Project and the Proposed Project, except for trip generation data for the Proposed Project obtained from the project-specific traffic analysis (Appendix D, Traffic Impact Analysis). The Eucalyptus Business Park Specific Plan designated the site for auto park uses. Based on the Eucalyptus Business Park Specific Plan site plan, modeling for the Approved Project assumes development of the site for regionally serving retail use, based on the allowable floor-area-ratio of 1.25.

Detailed construction schedule, grading information, and project design are not available for the Project Site for the Approved or Proposed Project; however, estimated emissions provide a relative scale for emissions that would result from the land uses of the Proposed Project compared to the Approved Project. Modeling assumes compliance with SCAQMD Rule 403 (Appendix A, Air Quality and GHG Modeling).

a) Would the project conflict with or obstruct implementation of the applicable air quality plan?

Less Than Significant Impacts/No Changes or New Information Requiring Preparation of an EIR. The 1990 EIR did not evaluate project consistency with SCAQMD air quality plans. The current SCAQMD is the 2022 AQMP. Given that the Approved Project (the Specific Plan) was approved before the preparation of the 2022 AQMP, preparation of emissions projections for the 2022 AQMP account for implementation of the Approved Project. As previously discussed, modeling for the Approved Project assumes development of the Project Site for regionally-serving retail use, based on the allowable floor-area-ratio of 1.25. As discussed below, the Proposed Project would result in reduced emissions compared to the Approved Project. Therefore, the Proposed Project would not result in emissions that were not accounted for in the 2022 AQMP and would not result in a conflict with the plan. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

b) Would the project 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?

Less Than Significant Impacts/No Changes or New Information Requiring Preparation of an EIR. The Certified EIR prepared for the EBPSP concluded that implementation of the Specific Plan would result in significant and unavoidable cumulative air quality impacts. Implementation of the Proposed Project would result in a decrease in air quality emissions. No new impacts relative to cumulative air quality emissions or a substantial increase in the severity of a previously identified significant impact evaluated in the Certified EIR would occur with implementation of the Proposed Project. The following describes changes in potential impacts from short-term construction activities and long-term operation of the Proposed Project compared to construction and operation of the Approved Project.

Construction Impacts

Construction emissions associated with the Approved Project were found to be significant and unavoidable in the 1990 EIR. Construction of the Proposed Project would also generate criteria air pollutants associated with construction equipment exhaust and fugitive dust from building construction, and pavement of asphalt and non-asphalt surfaces, and architectural coating. As previously discussed, updated modeling for the Approved Project assumes development the Project Site for regionally-serving retail use, based on the allowable floor-area-ratio of 1.25. Based on these assumptions compared to the residential uses for the Proposed Project, overall

construction would be similar or less intensive than that of the Approved Project (see Table 4). Therefore, there are no changes or new significant information which would require preparation of an EIR.

Table 4. Maximum Daily Construction Emissions

Year	Pollutants (lb/day)					
	VOC	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Approved Project						
Site Preparation	3	32	32	<1	9	5
Grading	2	24	23	<1	5	3
Building Construction	1	12	19	<1	2	1
Paving	1	6	10	<1	1	<1
Architectural Coating	116	1	2	<1	<1	<1
Maximum Daily Construction Emissions	**116**	**32**	**32**	**<1**	**9**	**5**
Proposed Project						
Site Preparation	3	32	32	<1	9	5
Grading	2	24	23	<1	5	3
Building Construction	2	11	20	<1	2	1
Paving	2	6	10	<1	1	<1
Architectural Coating	63	1	2	<1	<1	<1
Maximum Daily Construction Emissions	**63**	**32**	**32**	**<1**	**9**	**5**
SCAQMD Construction Threshold	**75**	**100**	**550**	**150**	**150**	**55**
Approved Exceeds Thresholds?	**Yes**	**No**	**No**	**No**	**No**	**No**
Proposed Exceeds Thresholds?	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod Version 2022.1

Emissions totals may not equal 100 percent due to rounding.

Long-Term Operational Impacts

The Approved Project was identified to result in significant and unavoidable impacts, exceeding South Coast AQMD's operational thresholds. The Proposed Project would result in new construction, painted surfaces, and paved and landscaped surfaces that would generate air pollutant emissions from area sources, energy use, and mobile sources. However, due to significantly more stringent regulatory requirements now than applied when the Approved Project was analyzed, and proposed changes of land use numbers, emissions associated with the Proposed Project would be less than the Approved Project. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

Table 5. Maximum Daily Regional Operation Emissions

Source	Maximum Daily Emissions (lbs/Day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Max Daily Emissions Approved Project						
Area	7	<1	10	<1	<1	<1
Energy	<1	1	1	<1	<1	<1
Mobile	23	18	169	<1	35	9
Total	**30**	**19**	**180**	**<1**	**35**	**9**
Max Daily Emissions Proposed Project						
Area	6	<1	6	<1	<1	<1
Energy	<1	1	<1	<1	<1	<1
Mobile	3	4	38	<1	9	2
Total	**9**	**5**	**44**	**<1**	**9**	**2**
Net Change from Approved Project	-21	-14	-136	0	-26	-7
SCAQMD Thresholds	**55**	**55**	**550**	**150**	**150**	**55**
Approved Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**	**No**
Proposed Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod Version 2022.1.

c) Would the project expose sensitive receptors to substantial pollutant concentrations?

Less Than Significant Impacts/No Changes or New Information Requiring Preparation of an EIR. The 1990 EIR did not specifically evaluate impacts related to sensitive receptors. However, as identified above, onsite construction activities would be similar to the Approved Project, and operational emissions would be reduced compared to the Approved Project. The nearest sensitive receptor to the Project Site is the Extended Stay America hotel located approximately 70 feet northwest of the Project Site. As indicated in Table 4, Maximum Daily Construction Emissions, above, the Proposed Project compared to the Approved Project would result in a reduction of maximum daily construction emissions. Additionally, where the Approved Project exceeded the SCAQMD threshold for VOC, the Proposed Project is under the threshold. Overall construction impacts with regard to air quality would be less severe than what was analyzed under the Proposed Project. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

d) Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The 1990 EIR did not evaluate impacts related to odor. However, land uses and industrial operations associated with odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting operations, refineries, landfills, dairies, and

fiberglass molding facilities (CARB 2005). The Proposed Project does not include any such activities that would result in odor impacts as it proposes residential uses and associated amenities on site. Therefore, the Proposed Project would not result in substantial changes requiring major revisions of the Approved Project. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

5.3.3 Mitigation Measures Identified in the 1990 EIR and Applicable to the Proposed Project

Construction Emissions

MM AQ-1 The City will include a standard condition on all grading plans ~~and map approvals~~ regarding dust control. This condition will help include but is not limited to regularly watering uncovered soil at least twice a day (late morning and after work) to form a crust on the surface, by paving dirt streets and roads, and by implementing other dust prevention measures outlined in the Air Quality Management District Rule Number 403.

5.4 Biological Resources

5.4.1 Summary of Previous Environmental Analysis

The Certified EIR evaluated potential impacts to biological resources for the implementation of the Eucalyptus Business Specific Plan. The Certified EIR determined that development of the site would result in the loss of existing natural and introduced vegetation and the wildlife they support. However, due to 96 percent of the land being occupied by disturbed pasture, this was not considered a significant impact. It was also determined that this land does support prey and forage for other wildlife species, specifically, for local raptors. Because the Chino Hills are located immediately west of the Plan Area, it was found that thousands of acres of suitable habitat and forage land would be provided for raptors and other wildlife species and therefore would not result in a significant impact. It was determined there that there would be no introduction of new species of animals or barrier to the migration or movement of animals.

The Certified EIR prepared for the Eucalyptus Business Specific Plan identified the presence of ten burrowing owls within the Specific Plan Area, specifically along the San Antonio Channel. The Certified EIR concluded that development of the Specific Plan would remove habitat and displace the burrowing owls, thus resulting in a significant impact. However, mitigation via the dedication of open space along San Antonio Channel was implemented to reduce this impact to below a level of significance. The Certified EIR also concluded that no native wildlife species would be impacted by the loss of the 10 landscaped acres as it consisted of introduced species to this area. The Certified EIR identified that the Carbon Canyon flood control channel would remain undeveloped and would therefore, preserve the 1.8 acres of riparian wetland and the wildlife raptors it supports.

5.4.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
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	☐	☐	☐	☒	☐

	Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
	Department of Fish and Game or U.S. Fish and Wildlife Service?					
b)	Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	☐	☐	☐	☒	☐
c)	Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	☐	☒	☐
d)	Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	☐	☒	☐
e)	Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☐	☐	☒	☐
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?	☐	☐	☐	☒	☐

Comments

a) Would the project 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?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The majority of the Eucalyptus Specific Plan Area has been developed. The Project Site itself is vacant, however it has already been studied under the 1990 Certified EIR. As with the Approved Project, the Proposed Project would include the potential for sensitive species to occur on portions of the Plan Area that have not yet been developed, specifically the burrowing owl. As with the Approved Project, implementation of the Proposed Project would result in habitat modifications as the Project Site remains currently undeveloped. However, as the development footprint of the Proposed Project is consistent with the Approved Project, impacts to habitat modifications, on any species identified as a candidate, sensitive, or special status species would be similar to what was identified in the Certified EIR. The Biological Resources Analysis (Appendix B.1) prepared for the Proposed Project determined that the Project Site and survey area contain only disturbed and developed habitat that has limited value to native plant and wildlife species. The survey area contains no native vegetation communities, sensitive plant species, sensitive aquatic resources, or critical habitat

Additionally, a Focused Western Burrowing Owl Survey Report (Appendix B.2) was completed for the Proposed Project. The survey area encompassed the project site and a 500-foot buffer. Suitable habitat and potential burrows for BUOW were present within the survey area; however, no BUOW individuals or diagnostic sign (e.g., whitewash, cast pellets) were detected during the four surveys conducted from March 6th, 2025 to June 23, 2025. At the time of the surveys, the survey area had been disked, reducing the quality of available habitat. As such, no new impacts would occur due to construction of the Proposed Project and no additional mitigation measures are necessary. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

b) Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Certified EIR prepared for the Specific Plan found a small area (1.8 acre) of willow riparian wetland vegetation along the earthen Carbon Canyon Channel (Little Chino Creek) that connects into the San Antonio Flood Control Channel. However, this channel is not located within the boundaries of the Project Site. Additionally, the Biological Resources Analysis only identified disturbed (ruderal) habitat and urban/developed land on the Project Site. Thus, implementation of the Proposed Project would not have a substantial adverse effect on any riparian or other sensitive habitat. Additionally, the development footprint for the Proposed Project is consistent with that of the Approved Project and therefore impacts to any riparian habitat or other sensitive natural community would be consistent with what was identified for the Approved Project. As such, no new impacts would occur

due to construction of the Proposed Project and no additional mitigation measures are necessary. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

c) Would the project have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. A biological survey was conducted as part of the Certified EIR and concluded that implementation of the Eucalyptus Business Park Specific Plan would not impact any area jurisdictional under Section 404 of the Clean Water Act. According to the Biological Resources Analysis (Appendix B.1) no aquatic resources occur within the survey area. It was further determined that the Project Site and survey area contain only disturbed and developed habitat that has limited value to native plant and wildlife species. The survey area contains no native vegetation communities, sensitive plant species, sensitive aquatic resources, or critical habitat. Additionally, as the Proposed Project is within the envelope of development previously analyzed, no new impacts would occur due to the construction of the Proposed Project and no additional mitigation measures are necessary. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

d) Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Certified EIR did not identify substantial interference with the movement of any native resident or migratory fish or wildlife species as a result of the implementation of the Eucalyptus Business Park Specific Plan. Additionally, the surrounding area for the Project Site is largely developed and therefore development of the Proposed Project would not impact a wildlife corridor. The survey area provides nesting habitat for several bird species, including raptors, which are protected under California Fish and Game Code and the MBTA. Pursuant to the MBTA, no grubbing, trimming, or clearing of vegetation from the project site shall occur during the general bird nesting season (January 15 through August 31). If grubbing, trimming, or clearing of vegetation cannot feasibly occur outside the general bird nesting season, the qualified biologist, as approved by the City of Chino, shall perform a pre-construction nesting bird survey no more than 5 days prior to the start of vegetation grubbing, trimming, or clearing to determine if active bird nests are present in the affected areas. Should an active bird nest be located, the qualified biologists shall establish a buffer of 50 to 500 feet as appropriate for the species as determined by the qualified biologist, and direct vegetation clearing away from the nest until the project biologist has determined that the young have fledged or the nest has failed. If no nesting birds (including nest building or other breeding or nesting behavior) are in the construction activity area, grubbing, trimming, or clearing shall

proceed. As the Proposed Project is within the envelope of development previously analyzed, no new impacts would occur due to the construction of the Proposed Project and no additional mitigation measures are necessary. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

e) Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. Though the Certified EIR did not address this issue area, the Proposed Project would not conflict with the City's Municipal Code, specifically Title 16, Chapter 16.90, Tree Preservation, which includes requirements for the removal of native or heritage trees. Multiple planted trees and structures are present surrounding the Project Site. However, no trees exist on the Project Site except one small Mexican fan palm (*Washingtonia robusta*) along the fence on the northern edge of the Project Site. Mexican fan palm is nonnative and therefore is not subject the Municipal Code requirements. As such, no new impacts would occur due to construction of the Proposed Project and no additional mitigation measures are necessary. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exist that would require the preparation of a subsequent EIR.

f) Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Certified EIR did not address this issue area. There are three plans related to biological resources in the Chino region. They are the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP), the County of San Bernardino Riparian Plan Conservation Ordinance, and The Preserve Resource Management Plan (RMP). However, none of these plans are applicable to the Specific Plan Area. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

5.4.3 Mitigation Measures Identified in the 1990 EIR and Applicable to the Proposed Project

The following mitigation measure from the Certified EIR is applicable to the Proposed Project. Revisions to the mitigation measure are shown in <u>underline</u> and ~~strikeout~~. Sensitive Wildlife Species

MM BIO-1 Affected future developers shall retain a qualified biologist to help plan and monitor construction in or near the flood control/biological easement land. ~~The biologist will submit a report on the easement areas each year for three (3) years to the City Planning Department on the status of the Burrowing Owls.~~ <u>Prior to issuance of grading permit, the applicant shall submit a protocol Burrowing Owl Survey to the</u>

City Planning Department. If burrowing owls or their sign is found on the project site, then consultation with CDFW must be initiated as per the 2012 Staff Report on Burrowing Owl Mitigation. The project must adhere to any mitigation methods set forth by CDFW. If no burrowing owls or burrowing owl sign is found during the surveys, then a burrowing owl clearance survey shall be conducted before any ground-disturbing activities in accordance with the California Department of Fish and Wildlife 2012 Staff Report on Burrowing Owl Mitigation. [*This mitigation measure has been revised to reflect adoption of the California Department of Fish and Wildlife 2012 Staff Report on Burrowing Owl Mitigation, which occurred after certification of the original EIR. The mitigation measure, as revised, is a minor technical change, is more effective than the original mitigation measure and does not result in any new significant impacts. Therefore, this change does not result in any of the conditions set forth in CEQA Guidelines Section 15162.*]

5.5 Cultural Resources

5.5.1 Summary of Previous Environmental Analysis

Impacts to cultural resources for the Specific Plan are included in Section VI, Impacts Found Not to Be Significant, as the topic was evaluated previously in the Initial Study prepared for the Eucalyptus Business Park Specific Plan (Appendix A to the Certified EIR). It was determined that implementation of the Specific Plan would not cause a physical change affecting cultural resources. The Certified EIR concluded that there would be no alteration of or destruction of any archaeological site. It was determined that there would also not be any adverse effects on any historical building or object and that there would be no potential to cause a physical change affecting cultural resources. The Certified EIR also determined that there would be no restriction of religious or sacred uses.

5.5.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5?	☐	☐	☐	☒	☐
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?	☐	☐	☐	☒	☐
c) Disturb any human remains, including those interred outside of dedicated cemeteries?	☐	☐	☐	☒	☐

Comments

a) Would the project cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The proposed changes would not result in the development of any land that has not been previously analyzed in the Certified EIR, and the development footprint for the Proposed Project falls within the envelope of development previously analyzed. Therefore, development of the Project Site would result in the same impacts on cultural resources. The use change from the Specific Plan,

which anticipated Auto Mall use on the Project Site, whereas the Project proposes residential use consistent with the City's Affordable Housing Overlay would not increase the development footprint or cause any additional environmental impacts to the significance of historical resources. Impacts would be no more substantial than the impacts evaluated for the Certified EIR, and no additional mitigation is necessary. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

b) Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The proposed changes would not result in the development of any land that has not been previously analyzed in the Certified EIR, and the development footprint for the Proposed Project is within the envelope of what was analyzed in the Approved Project. Therefore, the discovery of an archaeological resource as a result of the development of the Proposed Project is unlikely. As intensity and scale of approved development has not increased, changes for the Proposed Project would not cause any additional environmental impacts to the significance of archaeological resources. Impacts would be no more substantial than the impacts evaluated for the Certified EIR, and no additional mitigation is necessary. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

c) Would the project disturb any human remains, including those interred outside of dedicated cemeteries?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The proposed changes would not result in the development of any land that has not been previously analyzed in the Certified EIR. Therefore, impacts to human remains are not expected to occur. State Health and Safety Code Section 7050.5 and Public Resources Code Section 5097.98 provide guidance with regard to the accidental discovery of human remains. The Proposed Project would be required to comply with these requirements. Impacts would be no more substantial than the impacts evaluated for the Certified EIR, and no additional mitigation would be required. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

5.5.3 Mitigation Measures Identified in the 1990 EIR and Applicable to the Proposed Project

No mitigation was proposed in the Certified EIR, and none is required for the Project.

5.6 Energy

5.6.1 Summary of Previous Environmental Analysis

The 1990 Certified EIR did not evaluate energy as a topic. At the time of certification of the EIR, the topic was not included in the State CEQA Guidelines. In January of 2018, the Governor's Office of Planning and Research (OPR) transmitted its proposal for the comprehensive updates to the CEQA Guidelines to the California Natural Resources Agency. California adopted amendments to the CEQA Guidelines on December 28, 2018, formalizing the consideration of Energy as a CEQA Guidelines topical issue. The current scientific information does not demonstrate that the Proposed Project will result in new or substantially greater significant impacts than those that would have resulted from implementation of the 1990 Approved Project. A change in significance thresholds does not qualify as "significant new information," as it does not show that the physical impact the project will have on the environment has changed.

5.6.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Result potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	☐	☐	☐	☒	☐
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☐	☒	☐

Comments

a) Would the project result potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Proposed Project, as with the Approved Project, and like all development, would be responsible for an incremental increase in the consumption of energy resources during construction due to on-site use of construction equipment and vehicle and truck trips. Construction activities that include

the use of natural gas, petroleum, or electricity would be temporary and negligible and would not have an adverse effect. Construction equipment would be required to comply with CARB emissions requirements for construction equipment, which includes measures to reduce fuel-consumption, such as imposing limits on idling and requiring older engines and equipment to be retired, replaced, or repowered. In addition, the project would be required to comply with goals and policies in the City's General Plan aimed at reducing energy impacts.

The Open Space and Conservations Element specifically includes the following objectives and policies with regard to energy conservation that apply to the Proposed Project:

Goal OSC-4 Minimize the consumption of energy and non-renewable resources, and promote environmental sustainability.

Objective OSC-4.1 – Incorporate green building practices throughout the City.

Policies

- **P1.** The City shall continue to comply with California Building Code (Title 24) provisions, including Part 11 of the Code, referred to as CALGreen or the California Green Building Standards Code and consider exceeding the standards where appropriate and as deemed necessary to meet the City's goals and/or legal obligations.
- **P6.** The City shall require that all new residences sold with appliances install all Energy Star-Rated appliances. All new residences shall use compact florescent lights in all standard light installations. Installation of these measures shall be confirmed.
- **P7.** The City shall encourage all new construction to use low- or no-toxicity building materials.

Goal OSC-5 Reduce greenhouse gas emissions by 15 percent below 2008 levels by 2020.

Objective OSC-5.1 – Take appropriate actions to reduce greenhouse gas emissions and Chino's contribution to global climate change.

Policies

- **P1.** The City shall promote strategic land use patterns, a diverse and efficient public transportation system, and other measures that reduce the number and length of motor vehicle trips.
- **P2.** The City shall seek to reduce greenhouse gas emissions associated with City operations, using measurements of its greenhouse gas emissions to quantify and improve the effectiveness of these efforts.
- **P3.** The City shall work with homeowners and business owners to support their efforts to reduce greenhouse gas emissions.

The Proposed Project would involve minimal new street and pathway lighting, and residential energy use. Indirect energy use would include wastewater treatment from the proposed residences and solid waste removal at off-site facilities. Nominal impacts are expected from project implementation. The Proposed Project does not include any features that would encourage the wasteful, inefficient, or unnecessary consumption of utilities. Therefore, operation of the Proposed Project would not substantially increase fuel use.

The Proposed Project would be subject to the Title 24 Building Energy Efficiency Standards, which apply to new construction and regulate energy consumed for heating, cooling, ventilation, water heating, and lighting, as further discussed below. Compliance with the most recent applicable Building Energy Efficiency Standards would ensure that the energy efficiency of the proposed buildings is maximized to the extent feasible. The most recent adopted standards, the 2022 Building Energy Efficiency Standards, include requirements for photovoltaic systems and features such as insulation requirements to reduce electricity demand from the energy grid.

The Proposed Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In addition, as described in this Addendum, no significant impacts are associated with the Proposed Project. Therefore, impacts related to energy would remain less than significant. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

b) Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Proposed Project would be subject to state regulations for energy efficiency, namely, California's Building Energy Efficiency Standards and CALGreen, both of which are set forth in the California Code of Regulations, Title 24. California's Building Energy Efficiency Standards were established in 1978 and serve to enhance and regulate California's building standards. These standards include regulations for residential and nonresidential buildings constructed in California to reduce energy demand and consumption. The Building Energy Efficiency Standards are updated periodically (every 3 years) to incorporate and consider new energy efficiency technologies and methodologies. CALGreen institutes mandatory minimum environmental performance standards for all ground-up, new construction of commercial, low-rise residential, and state-owned buildings, as well as schools and hospitals. On August 11, 2021, the CEC adopted the 2022 Energy Code. In December, it was approved by the California Building Standards Commission for inclusion into the California Building Standards Code. The 2022 Energy Code encourages efficient electric heat pumps, establishes electric-ready requirements for new homes, expands solar photovoltaic and battery storage standards, strengthens ventilation standards, and more. Buildings whose permit applications are applied for on or after January 1, 2023, must comply with the 2022 Energy Code. The 2022 Building Energy Efficiency Standards (Energy Code) went into effect January 1, 2023.

The Proposed Project would meet Building Energy Efficiency Standards and CALGreen standards as required to reduce energy demand and increase energy efficiency.

At a regional level, the Proposed Project would be subject to the policies set forth in SCAG's Connect SoCal. The most recent RTP/SCS was approved by SCAG's Regional Council in April 2024. The fundamental goals of SCAG's Connect SoCal are to make the SCAG region a better place to live, work, and play for all residents regardless of race, ethnicity, or income class. Due to the Project's consistency with the General Plan – which the SCAG relies on for its regional land use planning program – as well as the Project Site's geographic location in proximity to major local and regional truck routes, the Project would not conflict with the goals and policies of Connect SoCal – including the following goals related to vehicular and non-vehicular circulation. (SCAG, 2024)

- Encourage and support the implementation of projects that facilitate multimodal connectivity, prioritize transit and shared mobility, and result in improved mobility, accessibility, and safety.
- Prioritize repair, maintenance, and preservation of the SCAG region's existing transportation assets.
- Encourage the development of transportation projects that provide convenient, cost-effective, and safe alternatives to single-occupancy vehicle travel.
- Create a resilient transportation system by preparing for emergencies and the impacts of climate change. Proactively monitor and plan for the development, deployment, and commercialization of new technology as it relates to integration with transportation infrastructure.

The Proposed Project would follow applicable energy standards and regulations during construction. In addition, the Proposed Project would be built and operated in accordance with all existing, applicable regulations at the time of construction. As such, the Proposed Project would not conflict with existing energy standards and regulations. Electric and natural gas consumption practices for the Proposed Project would be in accordance with current City regulations and practices. As such, the Proposed Project would be considered consistent with the goals and policies of the City's Open Space and Conservation Element. Objectives from the Open Space and Conservation Element of the City's General Plan are consistent with Electricity and Natural Gas services for the Proposed Project. A less than significant impact will occur. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

5.6.3 Mitigation Measures Identified in the 1990 EIR and Applicable to the Proposed Project

No mitigation was proposed in the Certified EIR, and none is required for the Project.

5.7 Geology and Soils

5.7.1 Summary of Previous Environmental Analysis

The Certified EIR studied potential impacts with regard to geology and soils as a result of implementation of the Eucalyptus Business Park Specific Plan. No significant project-related or cumulative impacts were anticipated for the Approved Project. It was ultimately concluded that the potentially active Central Avenue Fault traversed through the Plan Area but that compliance with the Uniform Building Code (UBC) and applicable City standards by future development would result in a less than significant impact. Additionally, implementation of mitigation measures outlined in the Certified EIR would ensure that impacts with regard to seismic-related ground failure or soil erosion would be reduced to a less than significant impact. No impacts were identified with regard to landslides, unstable soils, or septic systems. Geology and Soils were also studied in Section VI. Impacts Found Not to Be Significant. It was determined that there would be no disruption of soil and no major change in topography or ground surface. It was determined that there would be no destruction, covering or modification of any unique feature. It was concluded that there would not be an increase in wind or water erosion of soils.

5.7.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:					
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map, issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	☐	☒	☐
ii) Strong seismic ground shaking?	☐	☐	☐	☒	☐

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
iii) Seismic-related ground failure, including liquefaction?	☐	☐	☐	☒	☐
iv) Landslides?	☐	☐	☐	☒	☐
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☐	☒	☐
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?	☐	☐	☐	☒	☐
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (2013), creating direct or indirect substantial risks to life or property?	☐	☐	☐	☒	☐
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☐	☐	☒
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☐	☐	☒	☐

Comments

a) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning map, issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Certified EIR disclosed that the potentially active Central Avenue Fault traversed through the Plan Area, however, this fault did not appear on the Alquist-Priolo Earthquake Fault Zoning Map. However, the implementation of seismic design provisions for structural safety will help minimize threats to human safety in the event of an earthquake. Additionally, as required by Mitigation Measure MM 7-2 from the Certified EIR, a Geotechnical Investigation (see Appendix C) was prepared for the Proposed Project. The Geotechnical Investigation (Appendix C) prepared for the Proposed Project found that the Project Site is not within a state-designated Alquist-Priolo Earthquake Fault Zone for fault rupture hazards. As with the Approved Project, for the Proposed Project, all structures will be designed in accordance with the seismic design provisions of the Uniform Building Codes to promote maximum safety in the event of an earthquake, and these have become more stringent since adoption of the Certified EIR. Impacts would be no more substantial than what was evaluated for the Certified EIR, and no additional mitigation would be required. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

ii) Strong seismic ground shaking?

Significant Impact/No Changes or New Information Requiring Preparation of an EIR. As identified in the Certified EIR, seismic hazard from ground shaking is typical for large areas of Southern California. However, the implementation of seismic design provisions for structural safety will help minimize threats to human safety in the event of an earthquake. As with the Approved Project, the Geotechnical Investigation concluded that the effects of strong ground shaking could be mitigated if all structures were designed in accordance with the seismic design provisions of the Uniform Building Codes to promote maximum safety in the event of an earthquake. As with the Approved Project, the Proposed Project would also incorporate Mitigation Measures MM 7-3 and MM 7-4 to address earthquake damage reduction and seismic effects onsite. Impacts would be no more substantial than the impacts evaluated for the Certified EIR, and no additional mitigation would be required. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exist that would require the preparation of a subsequent EIR.

iii) Seismic-related ground failure, including liquefaction?

Significant Impact/No Changes or New Information Requiring Preparation of an EIR. Soil liquefaction is the phenomenon in which water saturated cohesionless soil temporarily loses its strength when subjected to dynamic forces. The soils primarily vulnerable to liquefaction are saturated sands in a loose to medium dense condition. Liquefied soils may behave like liquids losing load bearing strength; however, they generally maintain some residual strength during and immediately after liquefaction. Structures located on liquefiable soils such as silt or sand may experience significant damage during an earthquake due to the instability of structural foundations and the moving earth. Liquefaction more often occurs in earthquake-prone areas underlain by young alluvium where the groundwater table is less than 50 feet below the ground surface. The probability of liquefaction occurring is relatively small because of the type of earthquake expected and the distance from active faults. The magnitude and nature of settlement due to liquefaction depends on many factors, including the homogeneity of the liquefiable layers, the depth to the liquefiable layer, the magnitude of the triggering event, and the duration of the shaking.

As with the Approved Project, the Proposed Project would occur in a location susceptible to liquefaction. As the development for the Proposed Project would occur at the same location as the Approved Project, findings for liquefaction would be consistent with that which was already identified. Therefore, the Proposed Project would not result in any new impacts or increase the severity of impacts with respect to liquefaction compared to the Approved Project and impacts would be no more substantial than the impacts evaluated for the Certified EIR, and no additional mitigation would be required. Additionally, as with the Approved Project, the Proposed Project would incorporate Mitigation Measure MM 7-5 in order to fully evaluate potential liquefaction hazards. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

iv) Landslides?

Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Certified EIR prepared for the Eucalyptus Business Park Specific Plan concluded that the Approved Project would not result in landslides because the Plan Area is relatively flat and not located on or adjacent to steep slopes. According to the Geotechnical Investigation, there are no known landslides near the site, nor is the site in the path of any known or potential landslides. Therefore, the potential for slope stability hazards to adversely affect the proposed development is considered low. As the Proposed Project falls within the envelope of development previously analyzed, impacts would be no more substantial than the impacts evaluated for the Certified EIR, and no additional mitigation would be required. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

b) Would the project result in substantial soil erosion or the loss of topsoil?

Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Certified EIR prepared for the Eucalyptus Business Park Specific Plan did not identify soils for the Plan Area that would be characterized as having an extensive erosion potential. The Certified EIR also stated that during construction, erosion could occur if there were high wind conditions and exposed soils. As with the Approved Project, the Proposed Project would incorporate Mitigation Measure MM 7-6 to minimize the amount of imported or exported soil needed. Additionally, with implementation of Mitigation Measure MM 7-11, which implements measures to minimize project erosion during the construction phase, the impact would be reduced to a less than significant impact. The Proposed Project would also incorporate Mitigation Measure MM 7-9 which requires compliance with the City's construction standards and guidelines. Development of the Proposed Project would be required to adhere to the mitigation measures outlined in the Certified EIR. Impacts would be no more substantial than the impacts evaluated for the Certified EIR, and no additional mitigation would be required. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exist that would require the preparation of a subsequent EIR.

c) Would the project 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?

Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Certified EIR prepared for the Eucalyptus Business Park Specific Plan did not identify the soils in the Specific Plan Area as being unstable or subject to landslide, lateral spreading, or subsidence. Additionally, the Plan Area, and therefore, the Proposed Project Site is relatively flat and in an urbanized area. Therefore, the potential for on- or off-site landslide is negligible. Additionally, like the Approved Project, the Proposed Project would be required to implement Mitigation Measure MM 7-5 to reduce impacts. Additionally, the Geotechnical Investigation found that the potential for regional subsidence to adversely impact the proposed structure is considered low. As the development for the Proposed Project would occur within the same location as the Approved Project, findings for unstable geologic unit or soil would be consistent with that which was already identified. Therefore, impacts would be no more substantial than the impacts evaluated for the Certified EIR, and no additional mitigation would be required. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exist that would require the preparation of a subsequent EIR.

d) Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Certified EIR did not analyze this issue for the Eucalyptus Business Park Specific Plan as Table 18-1 of the UBC was not available at the time. The United States Department of Agriculture (USDA) analyzes

the shrink-swell potential of each soil type, and categorizes it as "Low," "Moderate," "High," or "Very High." Where the shrink swell classification is moderate to very high, shrinking and swelling can damage buildings, roads and other structures. According to Figure 4.6-3 of the City's General Plan EIR, the Project Site is within an area of low shrink-swell potential. Additionally, mitigation measures were identified in the Certified EIR that would further reduce potential impacts to a less than significant level. Consistent with the Approved Project, the Proposed Project would be required to use special design and construction precautions to minimize damage to structures. Implementation of current codes and regulations identified in the Municipal Code would ensure that potential impacts related to expansive soils would remain less than significant. This includes compliance with the City's standard conditions of approval, which require a detailed soils report to investigate the adequacy of building engineering for the local soil conditions, including structural damage from land subsidence, prior to the issuance of a building or grading permit. Further, implementation of Policy P1 under Objective SAF-1.1 requiring adequate mitigation measures would be included in all new development to reduce the risks from expansive soil would further reduce impacts. Finally impacts with regard to expansive soils would be reduced with implementation of Policies P2 and P3 under Objective SAF-1.1 identified in the General Plan EIR, outlining that new development would be required to adequately investigate all geological hazards. Additionally, as with the Approved Project, the Proposed Project would incorporate Mitigation Measure MM 7-7 and MM 7-8 to further ensure that impacts with respect to alluvial materials and settlement of compressible soils would be reduced. The Proposed Project would also implement Mitigation Measure MM 7-10 from the Certified EIR which requires that future development would prepare foundation studies to determine if the Project is located on soils characterized with sufficient bearing strength. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exist that would require the preparation of a subsequent EIR.

e) Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

No Impact. The Certified EIR prepared for Eucalyptus Business Park Specific Plan did not address this issue. However, the Approved Project as well as the Proposed Project would not use septic tanks or alternative wastewater disposal systems, nor are the use of them proposed. Therefore, no impact would occur. There are no substantial changes in the circumstances or new information that was not known and could not have been known at the time of the adoption of the Approved Project that would require the preparation of a subsequent EIR. No additional mitigation would be required. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

f) Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Certified EIR prepared for Eucalyptus Business Park Specific Plan concluded that implementation of the Approved Project would not destruct, cover or modify any unique paleontological features. As the Proposed Project falls within the envelope of development previously analyzed, impacts would be no more substantial than the impacts evaluated for the Certified EIR, and no additional mitigation would be required. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

5.7.3 Mitigation Measures Identified in the 1990 EIR and Applicable to the Proposed Project

Geology

MM GEO-2 Applicants for individual development projects shall prepare geotechnical reports to the City of Chino to determine the appropriate design of buildings, footings, foundations, etc., prior to issuance of a grading permit.

Seismicity

MM GEO-3 All building plans shall be prepared and stamped by a qualified engineer to assure that new buildings will be constructed in conformance with the Uniform Building Code, specifically those standards pertaining to earthquake damage reduction.

MM GEO-4 If determined necessary by the City, the applicant shall submit an analysis of potential seismic effects onsite, including estimated values of peak ground motion, in accordance with accepted engineering standards.

MM GEO-5 In order to fully evaluate potential liquefaction hazard, as well as the possibility of seismicity induced settlement and ground lurching, applicants for individual development projects shall precisely locate the water table and collect soil samples so that the potential for seismic settling can be taken into account in project design, prior to issuance of grading permit. In addition, a Standard Penetration Test sampling of potentially liquefiable soils will also be conducted.

Soils

MM GEO-6 The project engineers for individual projects within the specific plan area shall prepare grading plans to determine the cut and fill ratio required to minimize the amount of imported or exported soil needed.

MM GEO-7 The nature and extent of suitable onsite alluvial materials shall be further examined as part of future geotechnical investigations for individual projects prior to issuance of grading permits.

MM GEO-8 To mitigate the potential settlement of compressible soils, these materials shall either be removed prior to fill placement or compacted in place.

MM GEO -9 Individual project applicants and their contractors shall comply with all applicable provisions of the City's construction standards and guidelines.

MM GEO-10 Future developments shall prepare foundation studies to determine if their particular project is located on soils characterized with sufficient bearing strength.

MM GEO-11 Individual project applicants shall, to the satisfaction of the City, implement measures to minimize project erosion during the construction phase. Erosion control measures include, but are not limited to the following:

- Place sandbags around the perimeter of the site prior to initial grading if grading is to be undertaken during the rainy season.
- Minimize the length of time soils lay exposed.
- Water down all exposed soils periodically.
- Revegetate grading areas under the direction of a licensed landscape architect.

5.8 Greenhouse Gas Emissions

5.8.1 Summary of Previous Environmental Analysis

The 1990 Certified EIR did not evaluate the effects of GHG emissions. At the time of certification of the EIR, the topic was not included in the State CEQA Guidelines. Senate Bill 97 required the Governor's Office of Planning and Research (OPR) to develop and the California Natural Resources Agency (Agency) to adopt, amendments to the CEQA Guidelines addressing the analysis and mitigation of greenhouse gas emissions. Such amendments became effective on March 18, 2010. The information provided in this section includes the most current scientific data on GHG and global climate change but does not change the conclusions of the 1990 Certified EIR. Current information on GHG emissions and global climate change do not trigger the need for preparation of a subsequent or supplemental EIR pursuant to Public Resources Section 21166 and CEQA Guidelines Section 15162. The current scientific information does not demonstrate that the Proposed Project will result in new or substantially greater significant impacts than those that would have resulted from implementation of the 1990 Approved Project. A change in significance thresholds does not qualify as "significant new information," as it does not show that the physical impact the project will have on the environment has changed.

5.8.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☐	☒	☐
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☐	☒	☐

The environmental and regulatory settings for the Proposed Project have changed since certification of the EIR for the Approved Project. The following discussion is provided to update conditions relative to development of the Proposed Project.

Environmental Setting

Greenhouse Gases and Climate Change

A GHG is any gas that absorbs infrared radiation and traps heat in the atmosphere. GHGs are produced from natural processes and human activities. The accumulation of GHGs in the atmosphere influences the long-term atmospheric temperatures and contributes to global climate change. Carbon dioxide (CO_2) accounts for the largest amount of GHG emissions, and CO_2, methane (CH_4), and nitrous oxide (N_2O), collectively, amount to 80 percent of the total radiative forcing from well-mixed GHGs (CARB 2014).

For each GHG, a global warming potential has been calculated to reflect how long emissions remain in the atmosphere and how strongly each GHG absorbs energy on a per-kilogram basis relative to CO_2. For example, 1 pound of CH_4 has 25 times more heat-capturing potential than 1 pound of CO_2. To simplify reporting and analysis, GHG emissions are typically reported in metric tons of carbon dioxide equivalent (MT CO_2e) units. Global warming potential is a metric that indicates the relative climate forcing of a kilogram of emissions when averaged over the period of interest. Table 6, Global Warming Potential for Select Greenhouse Gases, identifies the CO_2e and atmospheric lifetimes of basic GHGs.

Table 6. Global Warming Potential for Select Greenhouse Gases

Pollutant	Atmospheric Lifetime (years)	Global Warming Potential (100-year)[a]
CH_4	12	28
CO_2	~100[b]	1
N_2O	121	265

Source: CAPCOA 2021.

Notes: CH_4 = methane; CO_2 = carbon dioxide; N_2O = nitrous oxide

[a] The warming effects over a 100-year period relative to other GHGs.

[b] CO_2 has a variable atmospheric lifetime and cannot be readily approximated as a single number.

Regulatory Setting

State

California has enacted a variety of legislation relating to climate change, much of which has set aggressive goals for GHG emissions reductions throughout the state. Executive Order S-03-05 (2005) established the goal of reducing GHG emissions to 2000 levels by 2010, 1990 levels by 2020, and 80 percent below 1990 levels by 2050. In September 2006, Governor Arnold Schwarzenegger signed the Global Warming Solutions Act of 2006 (Assembly Bill 32), requiring the California Air Resources Board to establish a statewide GHG emissions cap for 2020 based on 1990 emissions and to adopt mandatory reporting rules for significant sources of GHG emissions. In April 2015, Governor Jerry Brown signed Executive Order B-30-15, which established the goal of reducing GHG emissions to 40 percent below 1990 levels by 2030. This goal was set into law in Senate Bill 32. Assembly Bill 1279, the California Climate Crisis Act, enacted in September

2022, updates the goals of Assembly Bill 32. The bill established a statewide goal to achieve net-zero GHG emissions by 2045 and to achieve and maintain net-negative GHG emissions thereafter. Additionally, the bill established a specific target for statewide anthropogenic GHG emissions to be reduced to at least 85 percent below the 1990 levels by 2045.

Local

The City of Chino adopted a Climate Action Plan in November 2013. An updated plan, the 2020 to 2030 Climate Action Plan Update (CAP) was adopted in November 2020. The CAP included a 2016 inventory of community GHG emissions, forecasted 2020 and 2030 community GHG emissions, and established a target to reduce GHG emissions by 46 percent below 2008 levels by 2030. This goal would put the City on a path toward the State's long-term goal to achieve statewide carbon neutrality (zero net emissions) by 2045. The CAP includes reduction measures related to energy efficiency, water conservation, alternative transportation, solid waste reduction, and clean energy to achieve the CAP target. The CAP is a qualified CAP under CEQA Guidelines Section 15183.5(b). The CAP outlines a GHG Development Review process to determine whether a project is consistent with the CAP.

Comments

Methodology

Projected operation-related GHG emissions are calculated using the California Emissions Estimator Model (CalEEMod), Version 2022.1 based on assumptions consistent with the Air Quality analysis above. GHG emissions were not quantified for the Approved Project. However for comparison purposes, the GHG emissions from the 1990 Approved Project are modeled using CalEEMod based on default modeling assumptions.

a) Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The significance of project GHG emissions is based on consistency with the City's CAP Development Review Process. Appendix A to the Greenhouse Gas Emissions Screening Tables of the City's Climate Action Plan (LSA 2020) contains a flow chart that diagrams this development review process. The first step is to determine whether a project is exempt from CEQA. The Proposed Project is not exempt from CEQA and is subject to the next step in the flow chart. The second step is to determine if the project relies on an addendum to a previous CEQA document. Because an EIR Addendum is the appropriate level of CEQA review for the Proposed Project, the Proposed Project answers "Yes" to this step of the flow chart, and GHG emissions are determined to be less than significant. Additionally, the Proposed Project reduces the proposed development intensity on the Project Site compared to the 1990 Approved Project. Operational GHG emissions from the

Proposed Project compared to the 1990 Approved Project are compared in Table 7. As such, GHG emissions would be reduced under Proposed Project development compared to planned GHG emissions under the 1990 Approved Project. This impact would be less than significant. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

Table 7. Estimated Operation Greenhouse Gas Emissions

Emissions Source	Emissions (MT CO_2e)
Estimated 1990 Approved Project Annual Operation Emissions	
Area	4.57
Energy	681
Mobile	4,847
Waste	69.4
Water	68.9
Refrigeration	0.13
Total	**5,671**
Estimated Proposed Project Annual Operation Emissions	
Area	1.95
Energy	217
Mobile	1,633
Waste	40.1
Water	12.7
Refrigeration	0.27
Total	**1,905**
Net Change from Existing	**-3,766**

Source: CAPCOA 2022. (Output data is provided in Attachment 1.)
Notes: MT CO_2e = metric tons of carbon dioxide equivalent

b) Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. As described above, the City's CAP is the applicable plan adopted for the purposes of reducing GHG emissions. The Proposed Project would reduce GHG emissions compared to planned emissions under the 1990 Approved Project and, as a Project subject to an Addendum EIR, would have less than significant GHG emissions. This impact would be less than significant. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

5.8.3 Mitigation Measures Identified in the 1990 EIR and Applicable to the Proposed Project

No mitigation measures were identified in the Certified EIR because GHG emissions were not evaluated. None are required for the Project.

5.9 Hazards and Hazardous Materials

5.9.1 Summary of Previous Environmental Analysis

The Certified EIR studied impacts with regard to hazards and hazardous materials resulting from implementation of the Eucalyptus Business Park Specific Plan. The Certified EIR concluded that the there was a potential that hazardous materials and substances, i.e., oil, pesticides, chemicals, etc. may be handled and released as a function of the permitted industrial and commercial uses. To eliminate adverse impacts associates with the handling of hazardous substances, the Certified EIR outlined several mitigation measures with the intent to review and regulate all uses to be developed onsite. Permitted uses would also be subject to regulatory review by the City and all other appropriate agencies. With implementation of the adopted mitigation measures, all safety impacts would be mitigated to a level of insignificance.

5.9.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☐	☒	☐
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?	☐	☐	☐	☒	☐
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☐	☒	☐

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
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?	☐	☐	☐	☒	☐
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	☐	☐	☐	☐	☒
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒	☐
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	☐	☐	☐	☒	☐

Comments

a) Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Certified EIR prepared for the Eucalyptus Business Park Specific Plan concluded that due to the commercial and industrial nature of the uses approved under the Specific Plan, impacts with regard to hazards and hazardous materials would occur. Mitigation measures were adopted to reduce impacts to a less than significant level. It should be noted that the mitigation measures proposed in the Certified EIR are no longer applicable as they have been satisfied or superseded by standard procedures and regulations.

Adherence to existing hazardous materials regulations would ensure compliance with existing safety standards related to hazardous materials, and the safety procedures mandated by applicable federal, state, and local laws and regulations (RCRA, California Hazardous Waste Control Law, and principles prescribed by the California Department of Health Services, Centers for Disease Control and Prevention, and National Institutes of Health) would ensure that risks resulting from the routine use, storage, transport or disposal of hazardous materials, or hazardous wastes associated with construction and implementation of future development projects within in the Proposed Project, are less than significant.

Though the Proposed Project, like the Approved Project, would adhere to existing hazardous materials regulation, the Proposed Project Site has since been designated as a site to include in the City of Chino 2021-2029 Regional Housing Needs Allocation (RHNA) with an Affordable Husing Overlay. This allows for residential use in the area currently zoned as Auto Mall. Auto malls, due to the nature of automotive repair and maintenance, often handle materials like used oil, solvents, and batteries. Residential uses, by would not require the routine transport, use, or disposal of hazardous materials. Therefore, impacts would be less severe than what was identified in the Certified EIR. There are no substantial changes in the circumstances or new information that was not known and could not have been known at the time of the adoption of the Approved Project that would require the preparation of a subsequent EIR. No additional mitigation would be required. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

b) Would the project 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?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. As previously mentioned, the Certified EIR prepared for the Eucalyptus Business Park Specific Plan concluded that due to the commercial and industrial nature of the uses approved under the Specific Plan, impacts with regard to hazards and hazardous materials would occur. Mitigation measures were adopted to reduce impacts to a less than significant level. It should be noted that the mitigation measures proposed in the Certified EIR are no longer applicable since they are not applicable to residential uses, and the site is not storing any hazardous substances. Existing hazardous materials regulations would minimize the potential for exposure to adverse health or safety effects. The Proposed Project would not involve the use of materials in a manner that poses any substantial hazards to people, or to animal or plant populations. Additionally, the Proposed Project Site has since been designated as a site to include in the City of Chino 2021-2029 Regional Housing Needs Allocation (RHNA) with an Affordable Housing Overlay. This allows for residential use in the area currently zoned as Auto Mall. Therefore, impacts would be less severe than what was identified in the Certified EIR. There are no substantial changes in the circumstances or new information that was not known and could not have been known at the time of the adoption of the

Approved Project that would require the preparation of a subsequent EIR. No additional mitigation would be required. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

c) Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. This topic area was not addressed in the Certified EIR for the Eucalyptus Business Park Specific Plan. However, there are no schools located within one-quarter mile of the Project Site. The closest school to the Project Site is Chaparral Elementary School, located at 4849 Bird Farm Road, approximately 0.8 miles south of the Project Site. Therefore, a significant impact would not occur. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

d) Would the project 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, create a significant hazard to the public or the environment?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Proposed Project does contain sites that have been identified on various regulatory databases pursuant to Government Code Section 65962.5; therefore, the Proposed Project would not create a significant hazard to the public or the environment. The Geotechnical Investigation prepared for the Proposed Project (See Appendix C) also concluded that based on a review of the California Geologic Energy Management Division (CalGEM) Well Finder website, the site is not located within the boundary of a known oil field and no oil wells are located in the immediate vicinity of the Project Site. A Phase I Environmental Site Assessment was prepared for the Proposed Project (see Appendix D) and determined that no evidence of recognized environmental conditions (RECs) or other notable findings in connection exist within the Project Site. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?

No Impact. The Proposed Project does not reside within an airport land use plan or within two miles of a public airport or public use airport. The Chino Airport is approximately 3.6 miles from the Project Site. Therefore, no impact would occur. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

f) Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Certified EIR determines that there would be no possible interference with an emergency response or evacuation plan. As the Proposed Project lies within the development footprint previously analyzed under the Certified EIR, it would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

g) Would the project expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Proposed Project is not located within land designated as a Very High Fire Hazard Severity Zone (VHFHSZ). Additionally, the Project Site is located in an urbanized area of the City and would not expose people or structures to a significant risk of loss, injury or death involving wildland fires. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

5.9.3 Mitigation Measures Identified in the 1990 EIR and Applicable to the Proposed Project

Mitigation measures identified in the Certified EIR have previously been satisfied or are no longer applicable.

5.10 Hydrology and Water Quality

5.10.1 Summary of Previous Environmental Analysis

The Certified EIR studied potential impacts to hydrology and water quality resulting from the implementation of the Eucalyptus Business Park Specific Plan. The Certified EIR determined that there would be no alteration to flood waters, no change in the quality of ground waters, and there would not be any exposure of people or property to flooding. The Plan Area is not located within an identified 100-year floodplain; nor is the Plan Area subject to inundation by seiche, tsunami, or mudflow. On this basis, the Approved Project was not found to have the potential to expose people or structures to a significant risk of loss, injury or death involving flooding. Section VI. Impacts Found Not to Be Significant, also studied impacts to Hydrology and Water Quality. It was concluded there that there would be no alteration to flood waters and no change in the quantity of ground waters. It was also determined that there would not be any exposure of people or property to flooding and no reduction in public water supplies.

5.10.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	☐	☐	☐	☒	☐
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☐	☒	☐

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would: (i) Result in substantial erosion or siltation on- or off-site; (ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; (iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or (iv) Impede or redirect flood flows?	☐	☐	☐	☒	☐
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☐	☒	☐
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☐	☒	☐

Comments

a) Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. Construction of the Proposed Project would include earthwork activities that could potentially result in erosion and sedimentation, which could subsequently degrade downstream receiving waters and violate water quality standards. Stormwater runoff during the construction phase may contain silt and debris, resulting in a short-term increase in the sediment load of the municipal storm drain system. Substances such as oils, fuels, paints, and solvents may be inadvertently spilled on the Project Site and subsequently conveyed via stormwater to nearby drainages, watersheds, and groundwater. The California Green Building Code (CalGreen) requires the implementation of stormwater controls and development of a Stormwater Pollution Prevention Plan (SWPPP) for projects less than one acre to minimize the amount of sediment and other pollutants from being discharged in stormwater runoff during construction, as well as various temporary Best Management Practices (BMPs) designed to prevent erosion and siltation, as well as the off-site conveyance of various on-site constituents. Therefore, construction impacts associated with water quality standards would be less than significant.

Once operational, the Project Site would be developed with a 110-unit residential development, and associated parking. Collectively, these on-site areas would reduce the potential for soils erosion and topsoil loss that could affect surface water quality. The structural and paved improvements would cover impervious areas lacking any exposed soils. Therefore, operational impacts associated with water quality standards would be less than significant.

The required project-specific Water Quality Management Plan (WQMP) (Appendix E) would ensure that hydrology and water quality impacts are less than significant. Moreover, as part of project design features, low impact development and water quality treatment solutions would be prescribed in the project specific WQMP to improve water quality. NPDES Municipal Stormwater Permits require new development and significant redevelopment projects to incorporate post-construction BMPs to comply with the local Standard Urban Stormwater Mitigation Plan (SUSMP) or Water Quality Management Plan (WQMP) to reduce the quantity of rainfall runoff and improve the quality of water that leaves a site. As required by the Regional Water Quality Control Board (RWQCB), the Proposed Project would be required to minimize the short and long-term impacts on receiving water quality from new developments and significant re-developments through submittal of a WQMP, emphasizing implementation of Low Impact Development (LID) principles and addressing hydrologic conditions of concern, prior to issuance of any grading or building permits. These requirements would ensure that adequate BMPs would be implemented to ensure that violation of any water quality standards or waste discharge requirements do not occur. Therefore, impacts with regard to water quality would be less than significant. As such, none of

the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

b) Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Proposed Project would require the use of water for dust suppression during project demolition, grading and construction. The amount of water that will be required to control dust during grading and construction will be minimal and not significantly impact existing groundwater supplies. Once completed, the Proposed Project would require potable water to serve the project residents, water the landscaping and provide required fire flow. The City of Chino's drinking water supply is a blend of surface water (rivers, lakes, streams) and groundwater (wells). Surface water is imported from Northern California by the Metropolitan Water District of Southern California via the State Water Project aqueduct and is treated at the Agua de Lejos Water Treatment Plant located in Upland. Groundwater supplies are extracted via local wells operated by the City of Chino or by the Chino Basin Desalter Authority (CBDA). To ensure that sufficient groundwater is available, the City would continue coordination with the Chino Basin Watermaster, inland Empire Utilities Authority (IEUA), and CBDA.

The Proposed Project involves the construction of a 110-unit multifamily residential development with associated parking on a vacant site. As such, the Proposed Project would introduce greater impervious area to the site. The City's 6th Cycle Housing Element Update anticipated residential uses for the Project Site, and it was determined that water supply would be adequate for implementation of the Housing Element Update. The use change from the Specific Plan, which anticipated Auto Mall use on the Project Site, whereas the Project proposes residential use consistent with the City's Affordable Housing Overlay, would not result in water usage that would substantially decrease water supplies, including groundwater supplies, or interfere substantially with groundwater management or recharge. The Proposed Project would not substantially impair groundwater recharge necessary to replenish the City's water supply; thus, impacts related to groundwater recharge would be less than significant. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

c) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

(i) Result in substantial erosion or siltation on- or off-site;

(ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;

(iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or

(iv) Impede or redirect flood flows?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. There are no streams or rivers located on or near the Project Site. Project construction would involve some earth-disturbing activities, including grading, that could expose on-site soils to erosion and surface water runoff. However, the Project Site is located within a developed area, with industrial, auto mall, residential and commercial land uses surrounding the Project Site; as such, the development of the project would not cause a significant change to surface bodies of water in a manner that could cause siltation or erosion.

Construction activities would entail grading, excavation, and other ground-disturbing activities, which could temporarily alter surface drainage patterns and increase the potential for flooding, erosion, or siltation. However, the Proposed Project would comply with existing local, state, and federal regulations related to drainage and runoff. As such, the Proposed Project would not result in flooding on or off site. Additionally, the Proposed Project would be required to comply with the NPDES Construction General Permit, which would require implementation of BMPs and erosion control measures, thereby reducing the effects of construction activities on erosion and drainage patterns. The Proposed Project would comply with existing local, state, and federal regulations related to drainage and runoff.

The Proposed Project Site does not contain any streams or rivers having the potential to be altered by implementation of the Proposed Project. Additionally, the Project Site is not within an area of 100-year or 500-year flooding hazard.

The Proposed Project would include the installation of appropriate drainage facilities and other utilities. On site runoff will be intercepted by series of catch basins which then drain into the proposed underground Infiltration/Detention chamber. The runoff then drains into the existing 30-inch storm drain system located under Corporate Center Avenue. The proposed flow pattern would remain unchanged.

According to the Proposed Project's Hydrology Report (Appendix F), it was determined that the proposed development discharge rates for 100-year storm event would be 17.32 cubic feet per

second (cfs). The entire flow would be captured through the onsite inlet system. Therefore, there would be no flow draining into adjacent property, unlike current predevelopment condition, and no increase of runoff into the adjacent Corporate Center Avenue would occur. Thus, no adverse drainage impacts would occur on adjacent and downstream property. It is anticipated that there will be no flooding in the Project Site resulting from the Proposed Project. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Project Site is not located in a coastal area. Therefore, tsunamis are not considered a significant hazard at the Project Site. Seiches are large waves generated in enclosed bodies of water in response to ground shaking. No major water-retaining structures are located immediately up gradient from the Project Site. Therefore, flooding resulting from a seismically induced seiche is considered unlikely. The Geotechnical Investigation (Appendix C) prepared for the Proposed Project found that risk of tsunami or seiches are considered low to negligible at the Project Site. Lastly, the Geotechnical Investigation found that the Project Site is not within an area of 100-year or 500-year flooding hazard. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Certified EIR prepared for the Eucalyptus Business Park Specific Plan did not address obstruction of implementation of a water quality control plan or sustainable groundwater management plan. The Project Site is located within the Santa Ana River Basin and Project-related construction and operational activities would be required to comply with the Santa Ana RWQCB's Santa Ana River Basin Water Quality Control Plan by preparing and adhering to a SWPPP and WQMP. Implementation of the Project would not conflict with or obstruct the Santa Ana River Basin Water Quality Control Plan.

The Project Site is located within the Chino Groundwater Basin, which is an adjudicated groundwater basin. Adjudicated basins, like the Chino Groundwater Basin, are exempt from the 2014 Sustainable Groundwater Management Act (SGMA) because such basins already operate under a court-ordered management plan to ensure the long-term sustainability of the Subbasin. No component of the Project would obstruct or prevent implementation of the management plan for the Chino Groundwater Basin The Proposed Project does not propose any uses that would result in degradation to water quality. The Proposed Project includes a use change from the Specific Plan, which anticipated Auto Mall use on the Project Site, whereas the Project proposes residential use

consistent with the City's Affordable Housing Overlay. As previously discussed, the Proposed Project would continue to comply with any water quality standards or waste discharge requirements and would not alter existing BMPs designed to manage storm water quality during operation. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

5.10.3 Mitigation Measures Identified in the 1990 EIR and Applicable to the Proposed Project

Mitigation measures proposed in the Certified EIR have previously been superseded by regulatory compliance, are satisfied, or are no longer applicable.

5.11 Land Use and Planning

5.11.1 Summary of Previous Environmental Analysis

The Certified EIR studied impacts with regard to land use resulting from the implementation of the Eucalyptus Business Park Specific Plan. The Certified EIR determined that implementation of the Eucalyptus Business Park Specific Plan would result in the transition of land use from existing agricultural, light industrial, commercial, residential, and vacant uses to more urbanized commercial and industrial uses. It was determined that implementation of the Specific Plan would remove existing Class I and Class III soils from potential agricultural production, thus contributing to the decline of agricultural operations and soils in the City. It was also determined that development standards of the Specific Plan would ensure that onsite compatibility between future developments and compatibility with surrounding land uses would occur. The Specific Plan included mitigation measure to resolve existing inconsistencies found in and between the General Plan and Zoning Ordinance.

5.11.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Physically divide an established community?	☐	☐	☐	☒	☐
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☐	☒	☐

Comments

a) Would the project physically divide an established community?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Certified EIR prepared for the Eucalyptus Business Park Specific Plan determined that the Approved Project would not displace a community. As with the Approved Project, the Proposed Project does not include any features that would be considered divisive. The Proposed Project

occurs on vacant land. The Project Site is located in an urbanized area with commercial, industrial, and residential land uses. The Proposed Project is consistent with the development footprint that was studied in the Certified EIR and would therefore not result in more severe impacts. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

b) Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Certified EIR prepared for the implementation of the Eucalyptus Business Park Specific Plan determined that a significant and unmitigated land use impact would occur with regard to the decline of agricultural soils in the City of Chino and the County of San Bernardino. As stated previously, the Project Site is not in an area with Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. The Project Site is currently vacant and surrounded by industrial, commercial, and residential uses. The Project Site is currently zoned as Auto Mall. The Proposed Project Site is located in an adopted housing overlay zone (Affordable Housing Overlay) as designated by the City's 6th Cycle Housing Element Update. This allows for residential use in the area currently zoned as Auto Mall, at the density proposed by the Project. Additionally, the proposed residential uses would be consistent with goals and objectives outlined in the City's General Plan including:

Goal LU-1 Enhance the livability of Chino neighborhoods.

Objective LU-1.1 – Provide a variety of housing types that meet the housing needs of residents of all income levels in Chino.

Policies

- **P2.** Wherever feasible, affordable housing shall be integrated into both new and established neighborhoods.

Goal LU-7 Locate new development to create a consolidated pattern of urbanization, maximizing the use of existing services and facilities.

Objective LU-7.1 – Encourage new development at a rate that can be served by available and planned public infrastructure.

Policies

- **P2.** Residential, commercial, industrial, and office uses shall be developed simultaneously, to the greatest extent possible, to provide a balance of housing, jobs, and retail to provide a sufficient economic base for City operations.

The Proposed Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In addition, as described in this Addendum, no significant impacts are associated with the Proposed Project. Therefore, impacts related to land use would remain less than significant. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

5.11.3 Mitigation Measures Identified in the 1990 EIR and Applicable to the Proposed Project

No mitigation was proposed in the Certified EIR, and none is required for the Project.

5.12 Mineral Resources

5.12.1 Summary of Previous Environmental Analysis

The Certified EIR studied impacts with regard to mineral resources resulting from the implementation of the Eucalyptus Business Park Specific Plan. It was determined that no impact would result from the Approved Project and that no rare or limited mineral resources exist in the Specific Plan Area.

5.12.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Result in the loss of availability of a known mineral resource that would be a value to the region and the residents of the state?	☐	☐	☐	☐	☒
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?	☐	☐	☐	☐	☒

Discussion

For the purpose of CEQA analysis, mineral resources refer to aggregate resources that consist of sand, gravel, and crushed rock. Aggregate resources provide bulk and strength in construction materials such as portland cement and asphaltic concrete. Other nonfuel mineral resources include metals such as gold, silver, iron, and copper and industrial metals such as boron compounds, rare-earth elements, clays, limestone, gypsum, salt, and dimension stone.

The California Geological Survey (CGS) classifies the regional significance of mineral resources in accordance with the California Surface Mining and Reclamation Act (SMARA) of 1975. The State Geologist is responsible for classifying areas within California that are subject to urban expansion or other irreversible land uses. SMARA also allowed the State Mining and Geology Board (SMGB), after receiving classification information from the State Geologist, to designate lands containing mineral deposits of regional or statewide significance. Classification into MRZ

is completed by the State Geologist in accordance with the SMGB's priority list and according to the presence or absence of significant mineral resources.

Of the four MRZ categories, lands classified as MRZ-2 are of the greatest importance. Such areas are underlain by demonstrated mineral resources or are located where geologic data indicate that significant measured or indicated resources are present. MRZ-2 areas are designated by SMGB as being "regionally significant." Such designations require that a lead agency's land use decisions involving designated areas be made in accordance with its mineral resource management policies (if any exist) and that it consider the importance of the mineral resource to the region or the state as a whole, not just to the lead agency's jurisdiction. The MRZ-1 zone depicts areas where adequate geologic information indicates that no significant mineral deposits are present, or where it is judged that little likelihood exists for their presence. MRZ-3 indicates areas of undetermined mineral resource significance. According to the City's General Plan, the Project Site resides in the MRZ-3 zone.

Comments

a) Would the project result in the loss of availability of a known mineral resource that would be a value to the region and the residents of the state?

No Impact. As the Project Site resides in MRZ-3, it does not contain known mineral resources of any value to the region or the residents of California. No impact would occur. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

b) Would the project 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?

No Impact. The Project Site does not contain mineral resources of local importance as identified on a local general plan, specific plan, or other land use plan. No impact would occur. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

5.12.3 Mitigation Measures Identified in the 1990 EIR and Applicable to the Proposed Project

No mitigation was proposed in the Certified EIR, and none is required for the Project.

5.13 Noise

5.13.1 Summary of Previous Environmental Analysis

The Certified EIR studied impacts with regard to noise resulting from the implementation of the Eucalyptus Business Park Specific Plan. It was determined that there would not be a significant increase in ambient noise, nor would there be exposure of people to severe noise levels. The Certified EIR concluded that during construction onsite wildlife and surrounding land uses would be temporarily impacted by noise created by construction equipment and activities. Temporary short-term noise impacts would result from construction activities. Due to the urbanized nature of the Specific Plan Area, all potential impacts with regard to noise were deemed less than significant under the Certified EIR. Section VI. Impacts Found Not to Be Significant, also studied impacts to Noise. It was determined there that there would be no creation of dwelling units exceeding noise guidelines and there would be no exposure of people to severe noise levels.

5.13.2 Impacts Associated with the Proposed Project

Would the project result in:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☐	☐	☒	☐
b) Generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☐	☒	☐
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, exposure of people residing or working in the project area to excessive noise levels?	☐	☐	☐	☐	☒

Comments

a) Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Certified EIR prepared for the Eucalyptus Business Park Specific Plan determined that implementation of the Specific Plan would not generate excessive noise.

The Proposed Project Site is located in an adopted housing overlay zone (Affordable Housing Overlay) as designated by the City's 6th Cycle Housing Element Update. This allows for residential use in the area currently zoned as Auto Mall. According to the Traffic Impact Analysis prepared for the Proposed Project by LSA, the Proposed Project VMT per service population is 37 percent and 46.3 percent lower than the threshold for the baseline and cumulative scenarios.

Therefore, associated vehicular noise associated with the Proposed Project would be less severe than what was identified under the Approved Project. Additionally, 100 percent of the vehicle trips would be directed east, away from the Extended Stay America hotel that is proximate to the Project Site. As previously indicated, the Approved Project assumed that the Project Site was designated for Auto Mall use. The Eucalyptus Business Park Specific Plan described the Auto Mall use as a center for automobile sales, services, and related uses. The Specific Plan clarified that the purpose of the use was to provide a center in which buyers could view and purchase automobiles in a quality setting. It also clarified that the Auto Mall designation would provide for the development of commercial businesses which are associated with the automobile industry, and which would assist in attracting additional customer traffic to the area.

Operational noise associated with these uses includes traffic noise from cars commuting to the area; driving to and around the auto mall site to "test drive" cars; car doors opening and closing; cars honking; and car service repair station noises due to associated machinery and tools used for repairs, compression pumps, drilling, pneumatic wrench usage, etc.

Operational noise associated with the proposed residential uses include primarily air conditioners and other home appliances; social noise; and traffic noise. As previously indicated, traffic noise is anticipated to be less severe under the Proposed Project compared to the Approved Project due to a reduction in VMT. Home appliance noises would be less substantial than operational noises identified for the approved Auto Mall use. Additionally, with regard to social noise, according to AB 1307, for residential projects, noise generated by residents (including amplified voices) is not considered a significant environmental effect under CEQA.

As the Proposed Project would generate less traffic (based on VMT comparison) compared to what was projected for the site under the original EIR assumptions, it would not result in any additional vehicle traffic noise not already accounted for in the EIR.

Like the Approved Project, the Proposed Project would result in temporary construction noise due to operation of construction equipment. Construction of the Proposed Project would generate noise that could expose nearby receptors to elevated noise levels that may disrupt communication and routine activities. The magnitude of the impact would depend on the type of construction activity, equipment, duration of the construction phase, distance between the noise source and receiver, and intervening structures. Sound levels from typical construction equipment range from 60 to 90 dBA Leq at 50 feet from the source (FHWA 2018). Noise from construction equipment generally exhibits point source acoustical characteristics. A point source sound decays at a rate of 6 dBA per doubling of distance from the source. This rule applies to the propagation of sound waves with no ground interaction.

Standard equipment, such as dozers, loaders, graders, backhoes, scrapers, and miscellaneous trucks, would be used for construction of the Proposed Project. Noise levels from standard construction equipment on the Project site were determined based on typical equipment noise levels established by the Roadway Construction Noise Model (FHWA 2018) (Appendix G, Roadway Construction Noise Model Results). The three noisiest pieces of construction equipment (grader, excavator, and dozer) that could be required for the Project were assumed to operate simultaneously in the same location. The nearest sensitive receptor is the Extended Stay America Hotel located approximately 70 feet northwest of the Project Site. Project construction has the potential to generate noise levels up to 82.1 dBA at 70 feet from the Proposed Project construction site.

Construction noise would be audible at the nearest sensitive receptor. However, the same construction equipment and receptors were analyzed in the Certified EIR, and there have been significant improvements to construction equipment since the certification of the EIR in 1990. In addition, construction would only take place during the daytime hours and the hotel use is most sensitive during the nighttime hours. As with the Certified EIR, the Proposed Project would also be subject to Section 15.44.030 of the City of Chino Municipal Code, which states that construction shall only occur between the hours of 7:00 am and 8:00 pm, Monday through Saturday, with no construction allowed on Sundays or Federal Holidays, unless otherwise approved by the City of Chino. As mentioned in the Section 3, Project Description, a perimeter wall would be constructed prior to construction on site which would minimize impacts to the Extended Stay America hotel. Additionally, a staging area would be incorporated at the eastern end of the Project Site, at the furthest point away from the hotel. Additionally, no pile driving is anticipated for the Proposed Project.

Like the Approved Project, the Proposed Project is proximate to the Chino Valley Freeway. According to Appendix H, Exterior Noise and Exterior Façade Acoustical Analysis, traffic on the Chino Valley Freeway is the primary source of noise affecting the site. As identified in Section 3, Project Description,

the Proposed Project would construct 54-inch balcony barriers strategically placed to block direct line of sight from the adjacent Chino Valley Freeway. This would further reduce noise generated from the Freeway. As previously indicated, the Approved Project determined that there would be no significant impacts with regard to noise and implementation of the Approved Project next to the Freeway was always anticipated. The Proposed Project falls within the development footprint of what was previously analyzed and therefore would not create a new significant impact or a substantial increase in the severity of previously identified effects. No additional mitigation would be necessary.

b) Would the project result in generation of excessive groundborne vibration or groundborne noise levels?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. As with the Approved Project, the Proposed Project would result in short-term construction impacts. Construction activities can result in varying degrees of ground vibration, depending on the equipment and methods used, distance to the affected structures and soil type. Groundborne vibration from construction activities would cause only intermittent, localized intrusion. Construction and grading equipment may produce periodic vibration on the Project site.

For reference, excessive groundborne vibration could occur if construction-related groundborne vibration exceeds the "strongly perceptible" vibration annoyance potential criterion of 0.1 inch per second peak particle velocity for human receptors as specified by the California Department of Transportation (Caltrans 2013). The criterion of 0.5 inch per second peak particle velocity for damage to older residential structures for continuous/frequent intermittent construction sources (such as impact pile drivers, vibratory pile drivers, and vibratory compaction equipment) is also considered. As shown in Table XX, Vibration Levels from Typical Construction Equipment, typical construction equipment would generally not result in excessive groundborne vibration above the California Department of Transportation-allowed levels for annoyance or building damage beyond 50 feet of equipment operation.

Table 8. Vibration Levels from Typical Construction Equipment

Equipment Description	Approximate RMS Vibration Level at 25 Feet (inches/second)	Approximate RMS Vibration Level at 50 Feet (inches/second)
Vibratory Roller	0.210	0.074
Hoe Ram	0.089	0.031
Large Bulldozer	0.089	0.031
Caisson Drilling	0.089	0.031
Loaded Trucks	0.076	0.027
Jackhammer	0.035	0.012
Small Bulldozer	0.003	0.001

Notes: RMS = root mean square

No sensitive receptors are within 50 feet of the Proposed Project construction area. The nearest off-site receptor to the Project site is the Extended Stay America Hotel approximately 70 feet to the northwest.

In addition, construction of the Proposed Project would employ similar equipment as the Approved Project, however there have been significant improvements in construction equipment since the certification of the EIR in 1990. Manufacturers have focused on quieter designs, better mufflers, and improved hydraulic systems. The Proposed Project would also be required to comply with General Plan (GP) policies. Chino GP Policy P2 under Objective N-1.3 of the Noise Element of the Chino GP requires that the City limits all construction in the vicinity of noise-sensitive land uses to daylight hours, and includes construction noise control measures to be included as requirements at construction sites to minimize construction noise impacts, these include:

- Equip all internal combustion engine-driven equipment with intake and exhaust mufflers that are in good condition and appropriate for the equipment.
- Ensure that during construction, trucks and equipment are running only when necessary.
- Shield all construction equipment with temporary noise barriers to reduce construction-related noise impacts.
- Locate stationary noise-generating equipment as far as possible from sensitive receptors when sensitive receptors adjoin or are near a construction area.
- Utilize "quiet" air compressors and similar equipment, where available.

As with the Certified EIR, the Proposed Project would also be subject to Section 15.44.030 of the City of Chino Municipal Code, which states that construction shall only occur between the hours of 7:00 am and 8:00 pm, Monday through Saturday, with no construction allowed on Sundays or Federal Holidays, unless otherwise approved by the City of Chino. Furthermore, the operation of the Proposed Project does not involve heavy equipment or components that would generate substantial vibration. Additionally, as the development footprint of the Proposed Project is consistent with that which was evaluated for the Approved Project, therefore, construction vibration impacts would be similar for the Proposed Project. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in exposure of people residing or working in the project area to excessive noise levels?

No Impact. The Chino Airport runway is 3.5 miles southeast of the Project Site. As such similar to the conditions evaluated in the Certified EIR, there are no public airports, public use airports, heliports, or private airstrips within two miles of the Proposed Project Site vicinity. The Proposed Project would not expose people residing or working in the area to excessive levels of aircraft- or

airport-related noise. The Proposed Project would not create a new significant impact or a substantial increase in the severity of previously identified effects.

Overall, the Proposed Project would be consistent with the Approved Project as analyzed in the Certified EIR. The Proposed Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

5.13.3 Mitigation Measures Identified in the 1990 EIR and Applicable to the Proposed Project

No mitigation was proposed in the Certified EIR, and none is required for the Project.

5.14 Population and Housing

5.14.1 Summary of Previous Environmental Analysis

The Certified EIR studied impacts with regard to population and housing resulting from implementation of the Eucalyptus Business Park Specific Plan. It was determined that there would be no alteration in the location, distribution, density of growth rate of human population. The Certified EIR also determined that implementation of the Eucalyptus Business Park Specific Plan would be considered a growth inducer. Section VI. Impacts Found Not to Be Significant, also studied impacts to Population and Housing. It was determined there that there would be no displacement of community and no significant opposition or controversy within the community. It was also concluded that there would be no detrimental effect due to insufficient market demand for proposed development. It was also found that there would not be an undesirable precedent promoting or facilitating other projects that would create significant impacts.

5.14.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☐	☒	☐
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☐	☒

Comments

a) Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Proposed Project would result in a population increase of approximately 360 people in the area. This is based on census data for the City, which estimated 3.27 people per household multiplied by the number of units proposed (110 residential units). As of May 2022, the population of the City of Chino is 92,585 persons (California Department of Finance 2024). The increase of 360 people would result in a 0.4 percent population increase. This 0.4 percent increase in population is not considered a substantial direct increase. In addition, indirect growth is related to the expansion of infrastructure, such as water, sewer or street systems that would serve areas beyond the proposed development. The Proposed Project would be served by existing infrastructure that the Project would connect to.

Each eight-year planning cycle, the City is allocated a specificities number of housing units called the Regional Housing Needs Allocation (RHNA). The RHNA quantifies current and future housing growth within a city. Through research and analysis, the Housing Element identifies available candidate housing sites and establishes the City's official housing policies and programs to accommodate the City of Chino's RHNA as determined by the Southern California Association of Governments (SCAG). The RHNA allocation given to each jurisdiction intends to accomplish the following:

- Increase the housing supply and the mix of housing types, tenure (rental or ownership), and affordability in all cities and counties within the region in an equitable manner.
- Promote infill development and socioeconomic equity, the protection of environmental and agricultural resources, and the encouragement of efficient development patterns.
- Promote an improved intraregional relationship between jobs and housing.

For the 2021–2029 planning period, the City of Chino is allocated a total of 6,978 units, including:

- 2,113 units affordable to very low-income households
- 1,284 units affordable to low-income
- 1,203 units affordable to moderate-income
- 2,378 units affordable to above-moderate income

The Certified EIR stated that as the business park became occupied, the need for housing within the area would increase accordingly. It also stated that there would be greater demand placed on employee housing. Implementation of the Proposed Project would not only satisfy the need for housing resulting from implementation of the business park, but it would also provide a means to fulfill the RHNA allocation designated for the City. Therefore, the Proposed Project would not

result in inducement of substantial population growth, either directly or indirectly, and impacts would be less than significant. The Proposed Project would not displace any existing housing or necessitate the construction of housing elsewhere. A less than significant impact will occur.

b) Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

No Impact. The Project Site is comprised of vacant land. The Proposed Project would, therefore, not displace any residents and would not necessitate construction of replacement housing. As a result, the Proposed Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

5.14.3 Mitigation Measures Identified in the 1990 EIR and Applicable to the Proposed Project

No mitigation was proposed in the Certified EIR, nor is any required for the Project.

5.15 Public Services

5.15.1 Summary of Previous Environmental Analysis

The Certified EIR studied impacts with regard to public services resulting from implementation of the Eucalyptus Business Park Specific Plan. It was determined that impacts with regard to schools, parks, or other public facilities would be less than significant. Police and fire protection services were found to be less than significant with implementation of mitigation that would require coordination with the City regarding hydrants, fire sprinklers, emergency access, security features, as well as the payment of fees. The Certified EIR also determined that the Approved Project would result in cumulative impacts on public services when considering the burden placed on services by other users and proposed users in the region, however with incorporation of mitigation, less than significant impacts would occur.

5.15.2 Impacts Associated with the Proposed Project

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:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Fire protection?	☐	☐	☐	☒	☐
b) Police protection?	☐	☐	☐	☒	☐
c) Schools?	☐	☐	☐	☒	☐
d) Parks?	☐	☐	☐	☒	☐
e) Libraries or local daycare facilities?	☐	☐	☐	☒	☐

Comments

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:

a) Fire protection?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Chino Valley Independent Fire District (CVIFD) provides fire services to the City of Chino, the City of Chino Hills, and the surrounding unincorporated areas, including Chino's Sphere of Influence (SOI). According to the City's General Plan, Public Facilities and Services Element, the CVIFD currently serves a population of 172,922 people, not including the prison population (City of Chino, 2010). The Project Site is already within the CVIFD service area, and once operational, the Proposed Project would continue to be served by the CVIFD. As previously mentioned, the Proposed Project would not induce substantial population growth in the City. Although the Proposed Project would potentially result in a slight increase in calls for service to the Project Site in comparison to the existing conditions, as previously discussed, the Proposed Project would result in an increase of 360 people (or a 0.4 percent population increase in the City). This is not considered a substantial direct increase. Additionally, the Proposed Project would be constructed within an already-developed urban environment with currently available fire protection services available to the subject site via existing facilities and would not result in the need for new facilities. The Certified EIR already considered the necessity for fire police services to accommodate the Auto Mall use. Additionally, since the certification of the EIR, there are now seven fire stations servicing the City compared to six when initially analyzed. Further, in accordance with the City's General Plan, Policy P5 under Objective PFS-1.1 calls for the City to charge a Fire Facility development impact fee would be implemented. Additionally, the Proposed Project would comply with the City of Chino Municipal Code Chapter 3.40 and 3.45. Municipal Code Chapter 3.40 and 3.45 establishes a Fire Suppression Facilities, Vehicles, and Equipment DIF. This fee is established to finance the relocation and/or construction of firehouses, training facilities and the equipment required to provide fire suppression to address increased calls for service generated by new development. These fees will be used to install fire facilities consistent with the Chino Valley Independent Fire District's Master Plan. According to the City's 2023-2024 Development Impact Fee Annual Report, the fee amount is $846 per unit. As a result, the Proposed Project would not create a new significant impact, a new cumulative impact, or a substantial increase in the severity of previously identified effects. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

b) Police protection?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. According to the Chino Police Department 2023 Annual Report, the Chino Police Department serves the City's population with 123 sworn officers. The sworn officers include one Chief, one Captain, one Deputy Chief, and six Lieutenants, and one professional services manager (City of Chino 2023).

The Project Site is already within the Chino Police Department service area, and once operational, the Proposed Project would continue to be served by the Chino Police Department. As previously mentioned, the Proposed Project would not induce substantial population growth in the City. As with the Approved Project, the Proposed Project would also result in a slight increase in calls for service to the Project Site.

As previously discussed, the Proposed Project would result in an increase of 360 people (or a 0.4 percent population increase in the City). This is not considered a substantial direct increase. Additionally, the Proposed Project would be constructed within an already-developed urban environment with currently available police services available to the subject site via existing facilities and would not result in the need for new facilities. However, in accordance with the City's General Plan, to help pay for police substations that would be required in conjunction with new development, Policy P3 of Objective PFS-2.2 calls for a Police Facility development impact fee to be charged would be implemented. Pursuant to Chapter 3.40 and 3.45 (Development Impact Fees) of the City's Municipal Code, the Project would be subject to the City's Development Impact Fee (DIF), portions of which would be used to provide funding for law enforcement facilities, vehicles and equipment. Payment of DIF fees would offset the incremental increase in demand for police protection services and facilities with the Proposed Project. According to the City's 2023-2024 Development Impact Fee Annual Report, the fee amount would be anywhere from $404 to $407 per unit. When combined with implementation of applicable GP policies related to law enforcement facilities and services, impacts associated with the Proposed Project would not create a new significant impact, a new cumulative impact, or a substantial increase in the severity of previously identified effects. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

c) Schools?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Chino Valley Unified School District (CVUSD), encompassing 88 square miles, serves the City of Chino and includes the Cities of Chino and Chino Hills, part of the City of Ontario, plus unincorporated areas of San Bernardino County. The CVUSD has a total of 34 public schools, including 20 elementary schools, one K-8 school, five junior high schools, and five high schools. As discussed in Section 5.14(a), the Proposed Project would not induce substantial population

growth in the City. However, pursuant to Government Code Section 65995 et seq. (which was passed as Senate Bill 50 in 1998), school districts may collect development fees. However, a number of the City's General Plan goals, policies and objectives would be implemented. This includes: Public Facilities and Services Element Goal PFS-3 (directing the City to provide the highest possible level of educational services and facilities to serve new and existing development); Policies P1 and P2 under Public Facilities and Services Element Objective PFS-3.1 (requiring coordination with the Chino Valley Unified School District (CVUSD) to provide sufficient educational facilities, requiring concurrency between new development and the provision of school services, and directing the City to assist the CVUSD in implementing the Facilities Master Plan); and Public Facilities and Services Element Objective PFS-3.2, Policy P2 (requiring the reservation of land for new schools or the collection of school impact fees in accordance with State Law). According to Government Code Section 65996, the development fees authorized by SB 50 are deemed to be "full and complete school facilities mitigation." Therefore, the Proposed Project would result in less-than-significant impacts associated with the construction or expansion of school facilities. Impacts associated with the Proposed Project would not create a new significant impact, a new cumulative impact, or a substantial increase in the severity of previously identified effects. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

d) Parks?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. As discussed in Section 5.14(a), the Proposed Project would not induce substantial population growth in the City. As with the Approved Project, the Proposed Project would create additional demands on public parks and recreational facilities, however, demand would be marginal. As stated previously, the Proposed Project would result in an increase of 360 people (or a 0.4 percent population increase in the City). This is not considered a substantial direct increase. Additionally, due to the anticipated limited number of construction personnel, short-term impacts to local recreational facilities would not occur. The Proposed Project also includes development of 40,288 square feet of private and common open space in addition to 3,281 square feet of amenity use that would accommodate the population that would result from implementation of the Proposed Project and help reduce impacts to existing park facilities. The Proposed Project would implement goals, objectives, and policies identified in the Parks and Recreation Element of the General Plan that would address the need for preservation and management of parks and recreational facilities, including Goal PR-1 under Parks which specifies the need to maintain existing and recreational areas and create new ones in and around the City. Pursuant to Chapter 18 (Park and Recreational Land) of the City's Municipal Code, the Project would be subject to the City's Development Impact Fee (DIF), which establishes the process for developing park land values throughout the city as well as the cost to construct public parks on a per acre basis. According to the City's 2023-2024 Development Impact Fee Annual Report, the fee amount would be $17,441 per unit. When

combined with implementation of applicable GP policies related to park and recreational facilities, impacts associated with the Proposed Project would not would not create a new significant impact, a new cumulative impact, or a substantial increase in the severity of previously identified effects. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

e) Library services or local daycare facilities?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. As previously mentioned, the project would not induce substantial population growth in the City. As such, a substantial increase in patronage at libraries, community centers, and other public facilities is not expected. Further, pursuant to Chapter 3.40 and 3.45 (Development Impact Fees) of the City's Municipal Code, the Proposed Project would be subject to the City's Public Use Facilities Development Impact Fee (DIF), portions of which would be used to provide funding for library facilities. Payment of DIF fees would offset the incremental increase in demand for library services and facilities with the Proposed Project. According to the City's 2023-2024 Development Impact Fee Annual Report, the fee amount is $3,911 per unit. Therefore, the Proposed Project would result in less-than-significant impacts associated with the construction or expansion of library facilities. Impacts associated with the Proposed Project would not create a new significant impact, new cumulative impact, or a substantial increase in the severity of previously identified effects. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

5.15.3 Mitigation Measures Identified in the 1990 EIR and Applicable to the Proposed Project

Mitigation measures proposed in the Certified EIR have previously been superseded by regulatory compliance, are satisfied, or are no longer applicable.

5.16 Recreation

5.16.1 Summary of Previous Environmental Analysis

The Certified EIR studied impacts with regard to recreation resulting from implementation of the Eucalyptus Business Park Specific Plan. It was determined that there is no park site located within the Specific Plan Area. The closest park identified weas Ruben S. Ayala Community Park located northeast of the Plan Area at the corner of Edison and Central Avenues. This park is located 0.5 miles away from the Plan Area. No significant recreational impacts were identified as a result of the Approved Project. Section VI. Impacts Found Not to Be Significant, also studied impacts to Recreation. It was determined there that there would not be any encroachment into any recreational area or open space.

5.16.2 Impacts Associated with the Proposed Project

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
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?	☐	☐	☐	☒	☐
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?	☐	☐	☐	☒	☐

Comments

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?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. As discussed in Section 5.14(a), the Proposed Project would not induce substantial population growth in the City such that substantial physical deterioration of recreational facilities would occur or be accelerated.

As previously discussed, the Proposed Project would not induce substantial population growth in the City. As with the Approved Project, the Proposed Project would create additional demands on recreational facilities, however, demand would be marginal. As stated previously, the Proposed Project would result in an increase of 360 people (or a 0.4 percent population increase in the City). This is not considered a substantial direct increase. Additionally, due to the anticipated limited number of construction personnel, short-term impacts to local recreational facilities would not occur. The Proposed Project also includes development of 40,288 square feet of private and common open space in addition to 3,281 square feet of amenity use that would accommodate the population that would result from implementation of the Proposed Project and help reduce impacts to existing park facilities. The Proposed Project would implement goals, objectives, and policies identified in the Parks and Recreation Element of the General Plan that would address the need for preservation and management of parks and recreational facilities, including Goal PR-1 under Parks which specifies the need to maintain existing and recreational areas and create new ones in and around the City. Pursuant to Chapter 18 (Park and Recreational Land) of the City's Municipal Code, the Project would be subject to the City's Development Impact Fee (DIF), which establishes the process for developing park land values throughout the city as well as the cost to construct public parks on a per acre basis. According to the City's 2023-2024 Development Impact Fee Annual Report, the fee amount would be $17,441 per unit. When combined with implementation of applicable GP policies related to law enforcement facilities and services, impacts associated with the Proposed Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR

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?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Proposed Project would not promote or indirectly induce new development that would require the construction or expansion of recreational facilities as it would implement the Parks and Recreation Element of the General Plan and would comply with Chapter 18 of the City's Municipal Code. As previously discussed, implementation of the Proposed Project would also contribute 40,288 square feet of common and private open space in addition to 3,281 square feet of amenity use that would accommodate the population resulting from the Proposed Project. Further, as per Chapter 18.01 of the Chino Municipal Code, Park Land Dedication, In-lieu Fees and Park Development Fees, implements the provision of the Quimby Act. According to the City's 2023-2024 Development Impact Fee Annual Report, the fee amount would be $17,441 per unit. When combined with implementation of applicable GP policies related to law enforcement facilities and services, impacts associated with the Proposed Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. As such, none of the conditions

under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

5.16.3 Mitigation Measures Identified in the 1990 EIR and Applicable to the Proposed Project

No mitigation was proposed in the Certified EIR, and none is required for the Project.

5.17 Transportation

5.17.1 Summary of Previous Environmental Analysis

The Certified EIR studied impacts with regard to transportation resulting from implementation of the Eucalyptus Business Park Specific Plan. It was determined that nine of the 25 links would exceed Level of Service (LOS) C by the Year 2000 with the Approved Project. All roadway links would provide LOS C or better under cumulative except for Chino Hills Parkway, Central Avenue, and Ramona Avenue. It was also concluded that the Approved Project would contribute to poor levels of service at several intersections, but with implementation of mitigation, impacts would be reduced to a less than significant impact. Section VI. Impacts Found Not to Be Significant, also studied impacts to Transportation. It was determined there that there would be no increase in traffic hazards and that there would be no possible interference with an emergency response or evacuation plan. The Certified EIR also determined that the Approved Project would contribute to the congestion and burdens currently placed on regional freeways and roadways.

5.17.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?	☐	☐	☐	☒	☐
b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	☐	☐	☐	☒	☐
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☐	☒	☐
d) Result in inadequate emergency access?	☐	☐	☐	☒	☐

Discussion

On December 28, 2018, the California Office of Administrative Law cleared the revised California Environmental Quality Act (CEQA) guidelines for use. Among the changes to the guidelines was removal of vehicle delay and level of service from consideration under CEQA. With the adopted guidelines, transportation impacts are to be evaluated based on a project's effect on Vehicle Miles Traveled (VMT). Lead agencies are allowed to opt in to the revised transportation guidelines, but the new guidelines must be used starting July 1, 2020.

The City of Chino adopted an average VMT per service population threshold of significance on June 16, 2020 (City of Chino 2020). The guidelines include VMT screening criteria, analysis methodology, impact thresholds, and mitigation measures.

A Trip Generation and Vehicle Miles Traveled Assessment was prepared in March of 2025 for the Proposed Project (see Appendix I, Traffic Impact Analysis). The report has been used to support the conclusions made for the Proposed Project.

Comments

a) Would the project conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Certified EIR for the Specific Plan Area did not specifically analyze consistency or conflict with adopted policies, plans or programs supporting alternative transportation. This Addendum does not propose any changes to the requirements pertaining to public transportation, bicycle or pedestrian facilities within the Certified EIR prepared for the Specific Plan Area. The Proposed Project does not modify roadway cross-sections where possible future bicycle facilities are being considered.

Based on the City of Chino Bicycle and Pedestrian Master Plan in 2016, at present, Class II bike lanes exist along Chino Hills Parkway in the westbound direction west of Ramona Avenue and eastbound direction east of Ramona Avenue within this segment. A Class I Bike Lane is planned to be added along Chino Creek north of the project site, the project would not decrease the performance or safety of any existing or proposed bicycle facility.

According to the Transportation and Multi-Modal Mobility Element of the City of Chino's General Plan, sidewalks are generally provided on both sides of the streets. According to the Traffic Impact Analysis (Appendix I), currently, the study area for the Proposed Project along Ramona Avenue, Chino Hills Parkway, and Corporate Center Avenue features well-maintained paved sidewalks on both sides. These sidewalks provide pedestrians with designated pathways for safe travel. As previously referenced, the project will construct a paved sidewalk along the Proposed Project

frontage along Corporate Center Avenue. As such, the Proposed Project would improve the performance and safety of the existing and proposed pedestrian facilities.

OmniTrans local bus Route 88 currently operates at the closest bus stop (approximately 1.5 miles) from the Project Site, at the intersection of Pipeline Avenue/Edison Avenue. Route 88 has connections to the Chino Civic Center, Chino Transit Center and Montclair Transit Center. Crosswalks for Pipeline Avenue and Edison Avenue are provided at the bus stop locations for safe access to the bus route. As such, the Proposed Project would not decrease the performance or safety of any existing bus stops/transit routes located within the study area. The Proposed Project would not conflict with any existing or proposed bicycle, pedestrian, or public transit facilities.

Further, pursuant to Chapter 3.40 (Development Impact Fees) of the City's Municipal Code, the Project would be subject to the City's Development Impact Fee (DIF), portions of which would be used to finance the construction of streets, signals, etc. within the development area and in areas outside the development area but impacted by the development. According to the City's 2023-2024 Development Impact Fee Annual Report, the fee amount would be $1,894 per unit. When combined with implementation of applicable GP policies related to law enforcement facilities and services, impacts associated with the Proposed Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

The most recent version of the San Bernardino County Transportation Analysis Model (SBTAM), SBTAM Plus (SBTAM 3.2), was used to estimate the Proposed Project's VMT. Based on the TIA Guidelines, the Proposed Project VMT analysis includes two types of VMT: project-generated VMT and the project's effect on VMT. The Project Origin/Destination (OD) VMT per service population is 37 percent and 46.3 percent lower than the threshold for the baseline and cumulative scenarios, respectively (Table 8). In addition, the Citywide roadway VMT per service population under the "With Project" condition (proposed land use) is not greater than the "Without Project" condition (approved land use) for both the baseline and cumulative scenarios (Table 9). The Proposed Project would have a significant impact if the total VMT for all the roadway links within San Bernardino County increases for the "with project" scenario compared to the "without project" scenario. As shown in Table 9, the "with project" scenario is slightly reduced when compared to the "without project" scenario. Therefore, the Proposed Project does not have a significant VMT impact.

Table 9. Comparison of OD VMT per Service Population – Project and Regional Threshold

PA VMT per Service Population	Project	City of Chino General Plan Buildout (Threshold)	Difference	Percent Difference
2019	28.6	45.4	-16.8	-37.0%
2050	24.4	45.4	-21	-46.3%

Source: Appendix I.

Table 10. Roadway VMT per Service Population Within the City of Chino – With and Without Project

Roadway VMT per Service Population (City of Chino)	With Project	Without Project	Difference	Percent Difference
2019	16.4	16.5	-0.1	0.006%
2050	18.6	18.7	-0.1	-0.005%

Source: Appendix I.

As total VMT for San Bernardino County would not increase with the Proposed Project as compared to the Approved Project, the Proposed Project would have a less than significant transportation impact for both baseline and cumulative scenarios. Impacts associated with the Proposed Project would not create a new significant impact, a new cumulative impact, or a substantial increase in the severity of previously identified effects. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

c) Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Proposed Project consists of constructing 110 multifamily residential dwelling units on the Project Site. Vehicular access to the site would be provided by a full access driveway from Corporate Center Avenue. The Proposed Project would not include unusual or hazardous design features, nor would it generate incompatible uses with the surrounding area. The access point has been designed consistently with the City's circulation standards and does not create a hazard for vehicles, bicycles, or pedestrians entering or exiting the site. Improvement plans have been reviewed by a registered civil engineer to meet the City of Chino's development standards. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

d) Would the project result in inadequate emergency access?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. During construction, surrounding roadways would continue to provide emergency access through the Project Site and to surrounding properties. Further, the Proposed Project would provide emergency access in accordance with the requirements of the CVIFD. Additionally, the

Emergency Operations Plan addresses hazard preparedness, mitigation, response and recovery for earthquakes, hazardous material incidents, flooding, urban flooding, major air crashes, trucking incidents, civil unrest, national security emergency, and terrorism events.

Sufficient emergency access to the Project Site would be provided through a dedicated Emergency Vehicle Access (EVA) driveway that is available through the adjacent Extended Stay America hotel. The Certified EIR determined that there would be no possible interference with an emergency response or evacuation plan. The Proposed Project would also result in a slight reduction in VMT when compared to the Approved Project, which would further reduce impacts. Therefore, the Proposed Project does not conflict with this plan. Therefore, the Proposed Project would not result in inadequate emergency access. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exist that would require the preparation of a subsequent EIR.

5.17.3 Mitigation Measures Identified in the 1990 EIR and Applicable to the Proposed Project

Mitigation measures proposed in the Certified EIR have previously been superseded by regulatory compliance, are satisfied, or are no longer applicable.

5.18 Tribal Cultural Resources

5.18.1 Summary of Previous Environmental Analysis

Tribal Cultural Resources was not analyzed as a topic in the prior Certified EIR.

5.18.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: (i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or (ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision?	☐	☐	☐	☒	☐

Comments

a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

(i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or

(ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision??

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Approved Project did not evaluate impacts to Tribal and Cultural Resources. Assembly Bill 52 added provisions to the California Public Resources Code (PRC) that concern tribal cultural resources, including Section 21080.3.1(d). Assembly Bill 52 stipulates that the provisions of the bill would only be applicable to projects that have a notice of preparation or a notice of negative declaration or mitigated negative declaration filed on or after July 1, 2015. As the EIR for the Approved Project was certified in 1990, the Notice of Preparation was circulated prior to July 1, 2015. Therefore, tribal notification by the City is not required for the Proposed Project.

The Certified EIR did determine that impacts to cultural, archaeological, paleontological resources, and human remains would be less than significant. As the Proposed Project is within the development footprint and area of land disturbance previously analyzed under the Approved Project, no significant new impact or substantial increase in the severity of a previously described impact would occur. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exist that would require the preparation of a subsequent EIR.

5.18.3 Mitigation Measures Identified in the 1990 EIR and Applicable to the Proposed Project

No mitigation was proposed in the Certified EIR, and none is required for the Project.

5.19 Utilities and Service Systems

5.19.1 Summary of Previous Environmental Analysis

The Certified EIR studied impacts with regard to utilities resulting from implementation of the Eucalyptus Business Park Specific Plan. The Certified EIR addressed potential impacts to water and sewer facilities, wastewater treatment facilities, other utilities systems, solid waste disposal services. The Certified EIR required mitigation for potential impacts to water, wastewater, and storm drainage facilities in order to lessen impacts to a less than significant level. With regard to water supply, the Certified EIR identified a significant increase in water consumption due to the implementation of the Specific Plan. Mitigation measures, including adherence to applicable Department of Water Resources water conservation guidelines, were identified to reduce the impact to a less than significant level. The Certified EIR ultimately concluded that implementation of the Specific Plan would not be accommodated adequately by existing sewer pipelines, however with implementation of mitigation a less than significant impact would occur. The Certified EIR concluded that development of the Plan would impact the Milliken Sanitary Landfill. Mitigation measures were provided to reduce the impact to below a level of significance. The Certified EIR also determined that the Approved Project would result in cumulative impacts on utilities when considering the burden placed on services by other users and proposed users in the region, however with incorporation of mitigation, less than significant impacts would occur.

5.19.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a. Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	☐	☐	☐	☒	☐

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
b. Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	☐	☐	☐	☒	☐
c. Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☐	☒	☐
d. Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☐	☒	☐
e. Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☐	☒	☐

Comments

a) Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. Similar to the Approved Project, the Proposed Project would generate demand for water, sewer conveyance, wastewater treatment, solid waste disposal, and other services. The Proposed Project is in an urbanized area in which utilities and services are in place and where future demands for utilities and service systems have been anticipated in the General Plan goals, policies and programs for future growth). The Proposed Project Site is located in an adopted housing overlay zone (Affordable Housing Overlay) as designated by the City's 6th Cycle Housing Element Update. This allows for residential use in the area currently zoned as Auto Mall. The City is served by three (3)

treatment plants: Regional Plant 1 (RP-1) in Ontario, Carbon Canyon Wastewater Facility (CCWRF) in Chino, or Regional Plant 5 (RP5) in Chino. Together, all three (3) facilities have a combined capacity of 71.7 million gallons per day (MGD). The Chino Basin Regional Sewer Service Contract requires a capacity of 270 gallons per day per housing unit (City of Chino, 2020). With 110 units, the Proposed Project would create a demand of 29,700 gallons per day. The Certified EIR assumed 558,000 gallons per day of wastewater. The Proposed Project would account for approximately 5 percent of this amount which is not considered substantial and would be well within the capacities of the combined treatment plants.

Additionally, residential and commercial wastewater rarely contains constituents that would cause a wastewater treatment plant to exceed RWQCB requirements as established in Waste Discharge Requirements (WDR).

With regard to dry utilities, the Southern California Edison (SCE) provides electricity and Southern California Gas (SoCal Gas) services gas utilities. Telecommunications service is provided by multiple companies including Frontier and Spectrum. The Proposed Project would increase the demands for dry utilities, however, this was accounted for in the Certified EIR. Additionally, the Proposed Project is located in an urbanized area of the City already served by electric power, natural gas, and telecommunications facilities. The Proposed Project would be required to meet the mandatory requirements under the City's various programs aimed at ensuring adequate supplies and service infrastructure are available to serve the development. For these reasons, impacts regarding dry utilities would not be more severe than what was previously analyzed.

As the Approved Project already anticipated development in this area and the Project Site is within the development footprint of what was previously analyzed, impacts would not be more severe than what was previously analyzed, and no mitigation is required as previous mitigation identified in the Certified EIR has either been satisfied, superseded by regulatory compliance or is no longer applicable. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

b) Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. As with the Approved Project, an increase in water consumption would result from the Proposed Project. Ultimately the Approved Project did not identify a significant impact after implementation of mitigation. Additional water infrastructure has been constructed in the Specific Plan Area since the certification of the EIR. Additionally, the Proposed Project would provide necessary infrastructure on the Project Site to integrate into the existing water infrastructure in the Specific Plan Area. As with the Approved Project, the Proposed Project would continue to comply with all

applicable regulations of the City, County, State and Regional Water Quality Control Boards. The Certified EIR assumed 340,638 gallons per day of total daily consumption for the Approved Project. Based the Proposed Project's addition of 110 units, and 360 people, and the 2020 Urban Water Management Plan (UWMP), the City's 5-year average base daily per capita water usage rate is approximately 189 gallons per capita per day (GPCD), the Proposed Project would generate an estimated 68,040 gallons per capita per day which is well within the 340,638 gallons per day approved in the Certified EIR.

Impacts would not be more severe than what was previously analyzed, and no mitigation is required as previous mitigation identified in the Certified EIR has either been satisfied, superseded by regulatory compliance or is no longer applicable. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exist that would require the preparation of a subsequent EIR.

c) Would the project 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?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. As with the Approved Project, an increase in wastewater would result from the Proposed Project. Ultimately the Approved Project concluded that the with the incorporation of mitigation, a less than significant impact would occur. The Proposed Project Site is located in an adopted housing overlay zone (Affordable Housing Overlay) as designated by the City's 6th Cycle Housing Element Update. This allows for residential use in the area currently zoned as Auto Mall.

As previously indicated, the City is served by three (3) treatment plants: Regional Plant 1 (RP-1) in Ontario, Carbon Canyon Wastewater Facility (CCWRF) in Chino, or Regional Plant 5 (RP5) in Chino. Together, all three (3) facilities have a combined capacity of 71.7 million gallons per day (MGD). The Chino Basin Regional Sewer Service Contract requires a capacity of 270 gallons per day per housing unit (City of Chino, 2020). With 110 units, the Proposed Project would create a demand of 29,700 gallons per day. The Certified EIR assumed 558,000 gallons per day of wastewater. The Proposed Project would account for approximately 5 percent of this amount which is not considered substantial and would be well within the capacities of the combined treatment plants.

Impacts would not be more severe than what was previously analyzed and no mitigation is required as previous mitigation identified in the Certified EIR has either been satisfied, superseded by regulatory compliance or is no longer applicable. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exist that would require the preparation of a subsequent EIR.

d) Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. As with the Approved Project, the Proposed Project would generate solid waste. All collection, transportation, and disposal of any solid waste generated by the Proposed Project is required to comply with all applicable federal, state, and local regulations. Solid waste produced in the project is collected and transported by Waste Management (WM). The area is served by several nearby landfills, though the closest is the Mid Valley Landfill in Rialto and the El Sobrante Landfill in Corona, which have adequate capacity to serve the Proposed Project.

The El Sobrante Landfill is permitted to receive 16,054 tons of refuse per day (CalRecycle, n.d.). In June 2024, which is the most recent data available, the El Sobrante Landfill accepted approximately 8,526 tons of waste per day, which corresponds to approximately 53 percent of its average permitted daily disposal volume (RCDWR, 2024, p. 1). The El Sobrante Landfill is estimated to reach capacity, at the earliest time, in the year 2051; however, future landfill expansion opportunities exist at this site (CalRecycle, n.d.).

Mid-Valley Sanitary Landfill has 61,219,377 cubic yards of remaining capacity and a ceased operation date of April 1, 2045.

The Proposed Project would be required to demonstrate compliance with Federal, State, and local statutes and regulations for solid waste. Construction activities would be subject to compliance with the 50 percent diversion of solid waste requirement pursuant to the California Integrated Waste Management Act of 1989 (AB 939). In addition, construction activities would be required to comply with the most recent Green Building Code, which implements design and construction measures that act to reduce construction-related waste through material conservation measures and other construction-related efficiency measures.

Construction Impact Analysis

The Proposed Project would generate solid waste requiring disposal that would be generated by the construction process, primarily consisting of discarded materials and packaging. Based on the size of the Proposed Project (i.e., 197,860 s.f. of gross floor area) and the United States' Environmental Protection Agency's construction waste generation factor of 4.00 pounds per s.f. for multi-family residential uses, approximately 396 tons of waste are expected to be generated during the Proposed Project's construction phase (197,860 s.f. × 4.00 pounds per s.f. ÷ 2,000 pounds per ton = approximately 396 tons) (EPA, 2009, p. 9).

Assuming the same size for the Approved Project as the Proposed Project (i.e., 197,860 s.f. of gross floor area) and the United States' Environmental Protection Agency's construction waste generation factor of 4.34 pounds per s.f. for non-residential uses, approximately 429 tons of waste

are expected to be generated during the Proposed Project's construction phase ([197,860 s.f. × 4.34 pounds per s.f. ÷ 2,000 pounds per ton = approximately 429 tons) (EPA, 2009, p. 9).

Accordingly, the Proposed Project would result in less severe impacts than was originally anticipated for the Approved Project's construction phase. Implementation of the Project would not result in any new impacts or more severe significant impacts related to solid waste generation than previously disclosed under the Approved Project and no mitigation is required as previous mitigation identified in the Certified EIR has either been satisfied, superseded by regulatory compliance or is no longer applicable.

Operational Impact Analysis

For the operational analysis component for the Approved Project it assumed that the total gross floor area (197,860 square feet) would be dedicated to Auto Mall usage. Long-term operation of the Approved Project is estimated to generate approximately .89 tons of solid waste per day (0.9 lbs/100 s.f. x 197,860 = 1,781 lbs x 1 ton/2,000 lbs = .89 tons) .

Again, this figure assumes that the total Approved Project gross floor area would be used for Auto Mall use (0.9 lbs/1,000 s.f./day) (CalRecycle, 2022).

Long-term operation of the Proposed Project is estimated to generate approximately .198 tons of solid waste per day (3.6 lbs/110 units s.f. = 396 lbs x 1 ton/2,000 lbs = .198 tons). This figure is based on daily waste generation rate for multifamily residential land uses of 4 lbs/dwelling unit/day (CalRecycle, 2022).

Accordingly, the Proposed Project would result in less severe impacts than was originally anticipated for the Approved Project's operational phase. Implementation of the Project would not result in any new impacts or more severe significant impacts related to solid waste generation than previously disclosed under the Approved Project, and no mitigation is required as previous mitigation identified in the Certified EIR has either been satisfied, superseded by regulatory compliance or is no longer applicable. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exist that would require the preparation of a subsequent EIR.

e) Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. Consistent with the Approved Project, the Proposed Project would be required to comply with all Federal, State and local management and reduction statutes and regulations related to solid waste as a matter of course. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exist that would require the preparation of a subsequent EIR.

5.19.3 Mitigation Measures Identified in the 1990 EIR and Applicable to the Proposed Project

Mitigation measures proposed in the Certified EIR have previously been superseded by regulatory compliance, are satisfied, or are no longer applicable.

5.20 Wildfire

5.20.1 Summary of Previous Environmental Analysis

The Certified EIR did not fully analyze the topic of Wildfire. California adopted amendments to the CEQA Guidelines on December 28, 2018, formalizing the consideration of wildfires as a CEQA Guidelines topical issue.

5.20.2 Impacts Associated with the Proposed Project

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a. Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒	☐
b. Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☐	☐	☒
c. Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☐	☐	☒
d. Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☐	☐	☒

The Project Site is not located in a Fire Hazard Severity Zone Local Responsibility Area (LRA). Review of the CAL FIRE Fire Resource and Assessment Program (FRAP) maps for state responsibility areas (SRAs) indicates that the Project Site is not located in an SRA (CAL FIRE,

2022). Moreover, the City does not contain any areas classified as very high fire hazard severity zones (VHFHSZs) in state responsibility areas (CAL FIRE, 2022).

Comments

a) Would the project substantially impair an adopted emergency response plan or emergency evacuation plan?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. As required by State law, Chino has established emergency preparedness procedures to anticipate and respond to a variety of potential natural and manmade disasters in its Emergency Operations Plan adopted in September 2008. The Emergency Operations Plan addresses hazard preparedness, mitigation, response and recovery for earthquakes, hazardous material incidents, flooding, urban flooding, major air crashes, trucking incidents, civil unrest, national security emergency, and terrorism events.

The Proposed Project, similar to the Approved Project, would be required to comply with this plan. The Proposed Project would comply with applicable City regulations, such as the requirement to comply with the City's Uniform Fire Code requirements to provide adequate emergency access as required by CVIFD, as well as the California Building Standards Code. The Proposed Project would be required to submit the following for review by the Fire Department: Fire Master Plan, Water Improvement Plan/Underground Fire Main Plan, Architectural Plan, Fire Sprinkler Plan, Fire Alarm Plan. Prior to the issuance of building permits, the City of Chino would review site plans, including location of all buildings, fences, access driveways and other features that may affect emergency access. Additionally, the Project Applicant is required to pay Development Impact Fees to the City of Chino to offset any impacts the Project may have on fire protection services. During construction, surrounding roadways would continue to provide emergency access through the Project Site and to surrounding properties. Sufficient emergency access to the Project Site would be provided through a dedicated Emergency Vehicle Access (EVA) driveway that is available through the adjacent Extended Stay America hotel. The Certified EIR determined that there would be no possible interference with an emergency response or evacuation plan. The Proposed Project would also result in a slight reduction in VMT when compared to the Approved Project, which would further reduce impacts.

There are no new impacts for this issue area. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

b) Would the project, due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

No Impact. An embankment for the mainline of the SR-71 is located to the southwest of the Chino Hills Parkway on-ramp to the northbound SR-71 freeway. The embankment is predominately devoid of vegetation. The two-lane northbound Chino Hills Parkway on-ramp to SR-71 and the largely flat shoulder to the northeast of the on-ramp further separate the embankment from the Project Site. The Project Site is flat; the Project Site is not on a slope that would expose project occupants to pollutant concentrations from wildfire. Additionally, according to the California Department of Forestry and Fire Protection's (CAL FIRE's) Fire Hazard Severity Zone Map of the County (2020), the Proposed Project is not located in a VHFHSZ. Development of the Proposed Project, similar to the Approved Project, would not expose people or structures to a significant risk from wildland fires. No impact will occur. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

c) Would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

No Impact. Though the Project Site is vacant, the Proposed Project is located within an urbanized area and would not exacerbate fire risk or impacts to the environment because, similar to the Approved Project, the Proposed Project would not require new roads, fuel breaks, emergency water sources, above ground power lines or other large scale utilities that would exacerbate fire risk or result in temporary or ongoing impacts to the environment. Furthermore, the Project limits are not located in or near an SRA or lands classified as VHFHSZ. All new dry utility infrastructure would be installed underground and within the Project Site. Design and implementation of the new infrastructure would be reviewed and approved by the City's Public Works Department and the Chino Valley Independent Fire District as part of the project approval process to ensure the Proposed Project is compliant with all applicable design standards and regulations. Therefore, impacts related to exacerbated fire risk associated with infrastructure development for the Proposed Project, similar to the Approved Project, would be less than significant, and no mitigation is required. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exist that would require the preparation of a subsequent EIR.

d) Would the project expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

No Impact. The Project Site is relatively flat and is not likely to cause downstream flooding or landslides. The Proposed Project would not substantially alter the drainage patterns of the site, and thus would not expose people or structures to significant risks from runoff or post-fire instability. Furthermore, as previously mentioned, the Project Site is not located in a VHFHSZ. No impact

would occur. As such, none of the conditions under CEQA Guidelines section 15162, subdivision (a), exists that would require the preparation of a subsequent EIR.

5.20.3 Mitigation Measures Identified in the 1990 EIR and Applicable to the Proposed Project

No mitigation was proposed in the Certified EIR, and none is required for the Project.

Section 6 References

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Appendix A. Air Quality and GHG Modeling

Corporate Center - 1990 Uses Detailed Report

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5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Corporate Center - 1990 Uses
Construction Start Date	6/3/2025
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	9.20
Location	14892 Corporate Center Ave, Chino, CA 91710, USA
County	San Bernardino-South Coast
City	Chino
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5215
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	112	1000sqft	2.06	112,262	0.00	0.00	—	—

Regional Shopping Center	112	1000sqft	2.06	112,262	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	116	31.7	31.5	0.07	1.37	7.89	9.26	1.26	3.99	5.25	—	9,480	9,480	0.79	1.06	14.2	9,831
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.47	12.1	17.9	0.03	0.45	1.25	1.70	0.41	0.31	0.72	—	4,462	4,462	0.23	0.23	0.18	4,535
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.18	4.84	6.73	0.01	0.18	0.61	0.79	0.17	0.19	0.36	—	1,710	1,710	0.09	0.10	1.10	1,743
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.13	0.88	1.23	< 0.005	0.03	0.11	0.14	0.03	0.04	0.07	—	283	283	0.02	0.02	0.18	289

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.39	31.7	31.5	0.07	1.37	7.89	9.26	1.26	3.99	5.25	—	9,480	9,480	0.79	1.06	14.2	9,831
2026	116	11.3	18.8	0.03	0.40	1.25	1.65	0.36	0.31	0.67	—	4,505	4,505	0.22	0.23	6.34	4,584
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.47	12.1	17.9	0.03	0.45	1.25	1.70	0.41	0.31	0.72	—	4,462	4,462	0.23	0.23	0.18	4,535
2026	1.38	11.4	17.5	0.03	0.40	1.25	1.65	0.36	0.31	0.67	—	4,424	4,424	0.19	0.23	0.16	4,496
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.56	4.84	6.73	0.01	0.18	0.61	0.79	0.17	0.19	0.36	—	1,710	1,710	0.09	0.10	1.10	1,743
2026	6.18	3.95	6.14	0.01	0.14	0.41	0.55	0.13	0.10	0.23	—	1,484	1,484	0.06	0.07	0.89	1,508
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.10	0.88	1.23	< 0.005	0.03	0.11	0.14	0.03	0.04	0.07	—	283	283	0.02	0.02	0.18	289
2026	1.13	0.72	1.12	< 0.005	0.03	0.08	0.10	0.02	0.02	0.04	—	246	246	0.01	0.01	0.15	250

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	30.0	19.2	179	0.41	0.37	34.5	34.9	0.35	8.76	9.11	174	45,279	45,453	20.0	2.12	140	46,723
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	26.7	20.4	145	0.38	0.35	34.5	34.8	0.33	8.76	9.09	174	42,702	42,876	20.1	2.18	4.41	44,033
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	23.0	15.9	120	0.29	0.29	25.3	25.6	0.28	6.43	6.71	174	33,042	33,216	19.6	1.69	45.1	34,254
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.20	2.90	21.9	0.05	0.05	4.62	4.68	0.05	1.17	1.22	28.8	5,471	5,499	3.24	0.28	7.46	5,671

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	23.0	18.1	169	0.40	0.27	34.5	34.8	0.26	8.76	9.02	—	40,963	40,963	2.08	1.95	139	41,733
Area	6.98	0.08	9.76	< 0.005	0.02	—	0.02	0.01	—	0.01	—	40.2	40.2	< 0.005	< 0.005	—	40.3
Energy	0.06	1.01	0.84	0.01	0.08	—	0.08	0.08	—	0.08	—	4,093	4,093	0.38	0.04	—	4,114
Water	—	—	—	—	—	—	—	—	—	—	54.2	183	237	5.57	0.13	—	416
Waste	—	—	—	—	—	—	—	—	—	—	120	0.00	120	12.0	0.00	—	419
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.81	0.81
Total	30.0	19.2	179	0.41	0.37	34.5	34.9	0.35	8.76	9.11	174	45,279	45,453	20.0	2.12	140	46,723
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	21.3	19.4	144	0.37	0.27	34.5	34.8	0.26	8.76	9.02	—	38,426	38,426	2.18	2.01	3.60	39,083
Area	5.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.06	1.01	0.84	0.01	0.08	—	0.08	0.08	—	0.08	—	4,093	4,093	0.38	0.04	—	4,114
Water	—	—	—	—	—	—	—	—	—	—	54.2	183	237	5.57	0.13	—	416
Waste	—	—	—	—	—	—	—	—	—	—	120	0.00	120	12.0	0.00	—	419
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.81	0.81
Total	26.7	20.4	145	0.38	0.35	34.5	34.8	0.33	8.76	9.09	174	42,702	42,876	20.1	2.18	4.41	44,033
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	16.5	14.8	112	0.28	0.20	25.3	25.5	0.19	6.43	6.63	—	28,739	28,739	1.66	1.52	44.2	29,277
Area	6.47	0.06	6.69	< 0.005	0.01	—	0.01	0.01	—	0.01	—	27.5	27.5	< 0.005	< 0.005	—	27.6
Energy	0.06	1.01	0.84	0.01	0.08	—	0.08	0.08	—	0.08	—	4,093	4,093	0.38	0.04	—	4,114
Water	—	—	—	—	—	—	—	—	—	—	54.2	183	237	5.57	0.13	—	416
Waste	—	—	—	—	—	—	—	—	—	—	120	0.00	120	12.0	0.00	—	419
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.81	0.81
Total	23.0	15.9	120	0.29	0.29	25.3	25.6	0.28	6.43	6.71	174	33,042	33,216	19.6	1.69	45.1	34,254
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.00	2.71	20.5	0.05	0.04	4.62	4.66	0.03	1.17	1.21	—	4,758	4,758	0.28	0.25	7.33	4,847
Area	1.18	0.01	1.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.55	4.55	< 0.005	< 0.005	—	4.57
Energy	0.01	0.18	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	678	678	0.06	0.01	—	681
Water	—	—	—	—	—	—	—	—	—	—	8.97	30.2	39.2	0.92	0.02	—	68.9
Waste	—	—	—	—	—	—	—	—	—	—	19.8	0.00	19.8	1.98	0.00	—	69.4
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	4.20	2.90	21.9	0.05	0.05	4.62	4.68	0.05	1.17	1.22	28.8	5,471	5,499	3.24	0.28	7.46	5,671

3. Construction Emissions Details

3.1. Site Preparation (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.31	31.6	30.2	0.05	1.37	—	1.37	1.26	—	1.26	—	5,295	5,295	0.21	0.04	—	5,314

Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.43	0.41	< 0.005	0.02	—	0.02	0.02	—	0.02	—	72.5	72.5	< 0.005	< 0.005	—	72.8
Dust From Material Movement	—	—	—	—	—	0.11	0.11	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.08	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0	12.0	< 0.005	< 0.005	—	12.1
Dust From Material Movement	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	1.36	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	247	247	0.01	0.01	0.91	250
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.14	3.14	< 0.005	< 0.005	0.01	3.19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.52	0.52	< 0.005	< 0.005	< 0.005	0.53
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.74	16.3	17.9	0.03	0.72	—	0.72	0.66	—	0.66	—	2,959	2,959	0.12	0.02	—	2,970
Dust From Material Movement	—	—	—	—	—	2.80	2.80	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.36	0.39	< 0.005	0.02	—	0.02	0.01	—	0.01	—	64.9	64.9	< 0.005	< 0.005	—	65.1
Dust From Material Movement	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.7	10.7	< 0.005	< 0.005	—	10.8
Dust From Material Movement	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	1.17	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	211	211	0.01	0.01	0.78	215
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.13	7.56	4.25	0.04	0.08	1.69	1.77	0.08	0.46	0.54	—	6,310	6,310	0.66	1.03	13.4	6,647
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.31	4.31	< 0.005	< 0.005	0.01	4.37
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.18	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	138	138	0.01	0.02	0.13	146
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.71	0.71	< 0.005	< 0.005	< 0.005	0.72

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.9	22.9	< 0.005	< 0.005	0.02	24.1

3.5. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	3.33	4.16	0.01	0.14	—	0.14	0.13	—	0.13	—	765	765	0.03	0.01	—	767
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.61	0.76	< 0.005	0.03	—	0.03	0.02	—	0.02	—	127	127	0.01	< 0.005	—	127
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.32	5.60	0.00	0.00	0.94	0.94	0.00	0.22	0.22	—	1,012	1,012	0.04	0.04	3.75	1,028
Vendor	0.03	1.26	0.68	0.01	0.02	0.31	0.33	0.02	0.09	0.10	—	1,135	1,135	0.09	0.17	3.20	1,192
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.35	4.22	0.00	0.00	0.94	0.94	0.00	0.22	0.22	—	928	928	0.04	0.04	0.10	940
Vendor	0.03	1.32	0.68	0.01	0.02	0.31	0.33	0.02	0.09	0.10	—	1,136	1,136	0.09	0.17	0.08	1,189
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.12	1.42	0.00	0.00	0.30	0.30	0.00	0.07	0.07	—	300	300	0.01	0.01	0.52	305
Vendor	0.01	0.42	0.22	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	—	362	362	0.03	0.05	0.44	380
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.26	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	49.7	49.7	< 0.005	< 0.005	0.09	50.4
Vendor	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	60.0	60.0	< 0.005	0.01	0.07	62.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	3.09	4.06	0.01	0.12	—	0.12	0.11	—	0.11	—	751	751	0.03	0.01	—	753
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.56	0.74	< 0.005	0.02	—	0.02	0.02	—	0.02	—	124	124	0.01	< 0.005	—	125
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.28	5.17	0.00	0.00	0.94	0.94	0.00	0.22	0.22	—	992	992	0.04	0.03	3.39	1,006
Vendor	0.02	1.21	0.65	0.01	0.02	0.31	0.33	0.02	0.09	0.10	—	1,116	1,116	0.08	0.17	2.95	1,172
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.29	0.32	3.91	0.00	0.00	0.94	0.94	0.00	0.22	0.22	—	909	909	0.01	0.04	0.09	921
Vendor	0.02	1.25	0.66	0.01	0.02	0.31	0.33	0.02	0.09	0.10	—	1,117	1,117	0.08	0.17	0.08	1,170
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.11	1.29	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	289	289	< 0.005	0.01	0.46	293
Vendor	0.01	0.40	0.21	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	350	350	0.02	0.05	0.40	367
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.23	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	47.8	47.8	< 0.005	< 0.005	0.08	48.5
Vendor	< 0.005	0.07	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.9	57.9	< 0.005	0.01	0.07	60.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	6.23	8.81	0.01	0.26	—	0.26	0.24	—	0.24	—	1,350	1,350	0.05	0.01	—	1,355
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.31	0.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	66.6	66.6	< 0.005	< 0.005	—	66.8
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.0	11.0	< 0.005	< 0.005	—	11.1
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	1.44	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	276	276	0.01	0.01	0.94	280
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.7	12.7	< 0.005	< 0.005	0.02	12.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.10	2.10	< 0.005	< 0.005	< 0.005	2.12
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Architectural Coating (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.58	6.58	< 0.005	< 0.005	—	6.61
Architectural Coatings	5.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.09	1.09	< 0.005	< 0.005	—	1.09
Architectural Coatings	1.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	1.03	0.00	0.00	0.19	0.19	0.00	0.04	0.04	—	198	198	0.01	0.01	0.68	201

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.10	9.10	< 0.005	< 0.005	0.01	9.22
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.51	1.51	< 0.005	< 0.005	< 0.005	1.53
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	4.49	4.86	47.4	0.12	0.08	10.6	10.7	0.08	2.70	2.78	—	12,485	12,485	0.52	0.54	42.8	12,702
Regional Shopping Center	18.5	13.2	121	0.28	0.19	23.8	24.0	0.18	6.06	6.24	—	28,477	28,477	1.57	1.41	95.9	29,031

Total	23.0	18.1	169	0.40	0.27	34.5	34.8	0.26	8.76	9.02	—	40,963	40,963	2.08	1.95	139	41,733
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	4.20	5.22	39.0	0.11	0.08	10.6	10.7	0.08	2.70	2.78	—	11,700	11,700	0.53	0.56	1.11	11,881
Regional Shopping Center	17.1	14.2	105	0.26	0.19	23.8	24.0	0.18	6.06	6.24	—	26,726	26,726	1.65	1.45	2.49	27,202
Total	21.3	19.4	144	0.37	0.27	34.5	34.8	0.26	8.76	9.02	—	38,426	38,426	2.18	2.01	3.60	39,083
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.58	0.73	5.60	0.02	0.01	1.46	1.47	0.01	0.37	0.38	—	1,482	1,482	0.07	0.07	2.32	1,507
Regional Shopping Center	2.43	1.97	14.9	0.04	0.03	3.16	3.19	0.02	0.80	0.83	—	3,276	3,276	0.21	0.18	5.01	3,341
Total	3.00	2.71	20.5	0.05	0.04	4.62	4.66	0.03	1.17	1.21	—	4,758	4,758	0.28	0.25	7.33	4,847

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,858	1,858	0.18	0.02	—	1,869
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	1,036	1,036	0.10	0.01	—	1,042

Total	—	—	—	—	—	—	—	—	—	—	—	2,894	2,894	0.28	0.03	—	2,911
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,858	1,858	0.18	0.02	—	1,869
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	1,036	1,036	0.10	0.01	—	1,042
Total	—	—	—	—	—	—	—	—	—	—	—	2,894	2,894	0.28	0.03	—	2,911
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	308	308	0.03	< 0.005	—	309
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	171	171	0.02	< 0.005	—	172
Total	—	—	—	—	—	—	—	—	—	—	—	479	479	0.05	0.01	—	482

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.05	0.83	0.70	< 0.005	0.06	—	0.06	0.06	—	0.06	—	987	987	0.09	< 0.005	—	990
Regional Shopping Center	0.01	0.18	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	212	212	0.02	< 0.005	—	213
Total	0.06	1.01	0.84	0.01	0.08	—	0.08	0.08	—	0.08	—	1,199	1,199	0.11	< 0.005	—	1,203

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.05	0.83	0.70	< 0.005	0.06	—	0.06	0.06	—	0.06	—	987	987	0.09	< 0.005	—	990
Regional Shopping Center	0.01	0.18	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	212	212	0.02	< 0.005	—	213
Total	0.06	1.01	0.84	0.01	0.08	—	0.08	0.08	—	0.08	—	1,199	1,199	0.11	< 0.005	—	1,203
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	163	163	0.01	< 0.005	—	164
Regional Shopping Center	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	35.1	35.1	< 0.005	< 0.005	—	35.2
Total	0.01	0.18	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	199	199	0.02	< 0.005	—	199

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	4.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipme	1.60	0.08	9.76	< 0.005	0.02	—	0.02	0.01	—	0.01	—	40.2	40.2	< 0.005	< 0.005	—	40.3
Total	6.98	0.08	9.76	< 0.005	0.02	—	0.02	0.01	—	0.01	—	40.2	40.2	< 0.005	< 0.005	—	40.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	4.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	5.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.20	0.01	1.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.55	4.55	< 0.005	< 0.005	—	4.57
Total	1.18	0.01	1.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.55	4.55	< 0.005	< 0.005	—	4.57

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	38.2	129	167	3.93	0.09	—	294
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	15.9	53.7	69.6	1.64	0.04	—	122
Total	—	—	—	—	—	—	—	—	—	—	54.2	183	237	5.57	0.13	—	416
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	38.2	129	167	3.93	0.09	—	294
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	15.9	53.7	69.6	1.64	0.04	—	122
Total	—	—	—	—	—	—	—	—	—	—	54.2	183	237	5.57	0.13	—	416
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	6.33	21.3	27.7	0.65	0.02	—	48.6
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	2.64	8.89	11.5	0.27	0.01	—	20.3
Total	—	—	—	—	—	—	—	—	—	—	8.97	30.2	39.2	0.92	0.02	—	68.9

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	56.3	0.00	56.3	5.62	0.00	—	197
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	63.5	0.00	63.5	6.35	0.00	—	222
Total	—	—	—	—	—	—	—	—	—	—	120	0.00	120	12.0	0.00	—	419
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	56.3	0.00	56.3	5.62	0.00	—	197
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	63.5	0.00	63.5	6.35	0.00	—	222
Total	—	—	—	—	—	—	—	—	—	—	120	0.00	120	12.0	0.00	—	419
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	9.32	0.00	9.32	0.93	0.00	—	32.6
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	10.5	0.00	10.5	1.05	0.00	—	36.8
Total	—	—	—	—	—	—	—	—	—	—	19.8	0.00	19.8	1.98	0.00	—	69.4

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27	0.27
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.54	0.54
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.81	0.81
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27	0.27
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.54	0.54
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.81	0.81
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09	0.09
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	7/2/2025	7/9/2025	5.00	5.00	—

Grading	Grading	7/10/2025	7/21/2025	5.00	8.00	—
Building Construction	Building Construction	7/22/2025	6/9/2026	5.00	230	—
Paving	Paving	6/10/2026	7/5/2026	5.00	18.0	—
Architectural Coating	Architectural Coating	7/6/2026	7/31/2026	5.00	18.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	6.00	36.0	0.38
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	91.3	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	71.8	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	36.8	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	20.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	14.4	18.5	LDA,LDT1,LDT2

Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	336,786	112,262	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Ton of Debris)	Material Exported (Ton of Debris)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	0.00	0.00	7.50	0.00	—
Grading	4,903	2,472	8.00	0.00	—
Paving	0.00	0.00	0.00	0.00	0.00

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Office Building	0.00	0%
Regional Shopping Center	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	349	0.03	< 0.005
2026	0.00	346	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Office Building	1,093	248	78.6	302,107	15,014	3,407	1,079	4,148,360
Regional Shopping Center	4,238	5,178	2,369	1,498,362	24,591	33,618	15,380	8,966,005

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	336,786	112,262	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Office Building	1,959,184	346	0.0330	0.0040	3,080,471
Regional Shopping Center	1,092,122	346	0.0330	0.0040	661,840

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	19,952,746	0.00
Regional Shopping Center	8,315,529	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)

General Office Building	104	—
Regional Shopping Center	118	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	16.9	annual days of extreme heat
Extreme Precipitation	5.05	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	74.2
AQ-PM	93.3
AQ-DPM	61.0
Drinking Water	98.6
Lead Risk Housing	21.4
Pesticides	16.7
Toxic Releases	63.9
Traffic	29.6
Effect Indicators	—

CleanUp Sites	71.6
Groundwater	53.1
Haz Waste Facilities/Generators	97.1
Impaired Water Bodies	23.9
Solid Waste	64.4
Sensitive Population	—
Asthma	49.9
Cardio-vascular	83.2
Low Birth Weights	13.5
Socioeconomic Factor Indicators	—
Education	58.7
Housing	8.50
Linguistic	52.0
Poverty	23.9
Unemployment	18.3

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	69.9088926
Employed	62.92826896
Median HI	80.39266008
Education	—
Bachelor's or higher	43.17977672
High school enrollment	100
Preschool enrollment	4.221737457
Transportation	—

Auto Access	90.86359553
Active commuting	1.039394328
Social	—
2-parent households	33.23495445
Voting	60.79815219
Neighborhood	—
Alcohol availability	89.41357629
Park access	47.83780316
Retail density	58.01360195
Supermarket access	15.39843449
Tree canopy	23.0334916
Housing	—
Homeownership	95.07250096
Housing habitability	88.68215065
Low-inc homeowner severe housing cost burden	39.98460157
Low-inc renter severe housing cost burden	86.39804953
Uncrowded housing	51.79006801
Health Outcomes	—
Insured adults	73.78416528
Arthritis	60.6
Asthma ER Admissions	42.8
High Blood Pressure	59.0
Cancer (excluding skin)	55.0
Asthma	61.7
Coronary Heart Disease	72.1
Chronic Obstructive Pulmonary Disease	71.2
Diagnosed Diabetes	58.5
Life Expectancy at Birth	24.1

Cognitively Disabled	60.3
Physically Disabled	69.8
Heart Attack ER Admissions	7.6
Mental Health Not Good	58.7
Chronic Kidney Disease	64.9
Obesity	52.9
Pedestrian Injuries	69.7
Physical Health Not Good	59.3
Stroke	80.6
Health Risk Behaviors	—
Binge Drinking	20.5
Current Smoker	62.2
No Leisure Time for Physical Activity	61.9
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	62.5
Elderly	73.1
English Speaking	54.6
Foreign-born	44.6
Outdoor Workers	28.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	68.0
Traffic Density	32.4
Traffic Access	49.6
Other Indices	—
Hardship	49.8
Other Decision Support	—

2016 Voting	74.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	59.0
Healthy Places Index Score for Project Location (b)	57.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Based on Certified EIR land use plan/FAR 1.25
Construction: Construction Phases	No demolition required

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Appendix B.1. Biological Resources Analysis

Harris & Associates

July 29, 2025

Karen Alves, Vice President of Development
BCT Development
130 Newport Center Drive, Suite 210
Newport Beach CA 92660

Subject: Biological Resources Analysis Letter Report for the Chino Corporate Center Residential Project

Dear Ms. Alves:

Harris & Associates (Harris) has prepared this Biological Resources Analysis Letter Report in support of the Chino Corporate Center Residential Project (project). This report is intended to provide the results of biological reconnaissance and focused surveys for the project.

Harris conducted a biological resources field reconnaissance survey of the approximately 4.14-acre project site, including a 100-foot buffer, together referred to as the survey area.[1] Harris also conducted focused surveys for sensitive species of the project site including up to a 500-foot buffer for those surveys. The purpose of this document is to identify the presence of existing vegetation and wildlife species to assist in early planning and to identify potential biological constraints.

Summary

Analysis of biological resources was carried out through a review of existing maps, literature, and resource databases, and data was collected during field surveys conducted by Harris. The following surveys, assessments, and delineations were conducted by Harris between July 2024 and February 2025: biological resources site assessment survey, general biological reconnaissance survey, vegetation communities and land cover type mapping, and burrowing owl habitat assessment.

Two land cover types were identified in the survey area, disturbed (ruderal) habitat and urban/developed land.

No sensitive plant species were observed within the survey area. No sensitive plant species were determined to have a moderate or high potential to occur within the survey area.

No sensitive wildlife species were observed within the survey area. One sensitive wildlife species, western burrowing owl (*Athene cunicularia hypugaea*), was determined to have a moderate potential to occur within the survey area. In addition, the project site and the land immediately surrounding has some potential to support nesting birds.

Project Location and Description

The project lies in the City of Chino in San Bernardino County (County), California, within Assessor's Parcel Number 102-521-129 (Attachment 1, Figures; Figure 1, Regional Location, and Figure 2, Project Site). The survey area is in a dense urban area consisting of commercial buildings and State Route 71 bordering the western side of the project site (Figure 2). Little Chino Creek, a concrete-lined channel, is approximately 0.05 mile north of the survey area, and several segments of undeveloped land occur east and west of the survey area but are separated from the survey area by commercial developments and major roads.

The project involves building approximately 110multi-family residential dwelling units on a 4.14-acre site. The project will consist of 14 housing buildings as well as landscaping, roadways, and parking.

[1] The western burrowing owl survey was up to 500 feet outside project limits. Therefore, the survey area for that survey is defined as such.

Environmental Setting

Land Use

The project site occurs on a flat parcel of undeveloped land that is currently maintained via mowing and disking. The site has historically remained undeveloped for commercial or residential purposes. A review of historical aerial imagery (Google Earth 2025) indicates that the site has been consistently used for low-intensity agricultural activities or open space maintenance, including mowing and disking, and has not supported any permanent structures or intensive development.

Topography and Soils

The survey area is generally flat, with a slight decrease in elevation moving from west to east within the survey area. The topographic lines displayed on Figure 3, USGS Topographic Map, represent the elevations that occur in the survey area. The survey area is depicted on the U.S. Geological Survey (USGS) 7.5-minute Prado Dam Quadrangle within Township 2 South, Range 8 West (Figure 3). The on-site elevation ranges from approximately 628 to 638 feet above mean sea level (amsl).

The survey area is underlain by two soil types: Chino silt loam (zero to 2 percent slopes) and Sorrento clay loam (2 to 9 percent slopes) (Figure 4, Soils; USDA 2019). Most of the site is represented by chino silt loam and consists of very fine silt-sized particles that are saline in nature. This soil is formed from alluvium that comes from granitic rocks and is typically found in basins and floodplains at elevations ranging from sea level to 3,100 feet amsl. A small portion in the northwest corner of the site is represented by Sorrento clay loam and consists of a well-draining mixture of clay, silt, and sand-sized particles. This soil is formed with alluvium from sedimentary rocks and forms on alluvial fans and stabilized floodplains.

Hydrology

The survey area is in the Middle Chino Creek Watershed (Hydrologic Unit Code 180702030703) within the Southern California Coastal Subarea (California State Water Resources Control Board 2025). The Middle Chino Creek Watershed encompasses 76.84 square miles and is located in the southwest corner of San Bernardino County. Chino Creek, the heart of the Middle Chino Creek Watershed, is a tributary to the Santa Ana River, which is a direct tributary to the Pacific Ocean (California State Coastal Conservancy 2025).

The National Wetlands Inventory (NWI) results did not identify any mapped aquatic features in the survey area, but did identify a riverine feature (Little Chino Creek) as passing approximately 200 feet north of the survey area (Figure 5, Hydrology; USFWS 2025a). Little Chino Creek originates in natural canyons in the foothills west of the survey area before entering a concrete-lined channel in an urban area that passes north of the project site and shortly emptying into the concrete-lined channel of the Chino River. No other aquatic features are identified in or near the survey area by the NWI. Based on a review of the U.S. Geological Survey (USGS) National Hydrography Dataset, the survey area does not contain any aquatic resources (Figure 5; USGS 2022).

No aquatic resources occur within the survey area; therefore, aquatic resources are only discussed briefly in the Results section under Jurisdictional Aquatic Resources. It should be noted that to Harris' knowledge, no formal Jurisdictional Aquatic Resources Delineation report was completed for this project.

Climate

The survey area is in southwestern San Bernardino County. On a regional level, the southwestern portion of the County has a Mediterranean climate, which is characterized by wet winters and dry summers. This is largely because of a semi-permanent high-pressure zone that sits over the Pacific Ocean during much of the year and forms a fog belt (marine layer). The survey area is generally in the Peninsular Ranges of Southern California. Generalized climate in the region is regarded as dry, subhumid mesothermal, with warm, dry summers and cold, moist winters, which pushes the growing season to the wet months of the year (late winter to early spring). Annual

vegetation often goes dormant (senescent) during the later summer months until initial rains start in the fall. The rainy season typically lasts from late October through April.

The closest weather station to the survey area is the Chino Airport, approximately 4.31 miles to the west (NRCS 2025). Between 2005 and 2025, the average maximum temperature was 110 degrees Fahrenheit (°F), and the average minimum temperature was 29°F. The average annual precipitation between 2005 and 2025 was approximately 9.41 inches. In 2024, the total rainfall was 17.02 inches, approximately 7.61 inches greater than the previous year (NRCS 2025). As of February 2025, the total annual precipitation in the area was approximately 0.61 inches, approximately 1.43 inches less than that in February 2024.

Regional Context

Federal

Endangered Species Act (U.S. Code, Title 16, Sections 1531 Through 1543)

The federal Endangered Species Act and subsequent amendments prohibit the "take" (i.e., harm, harass, or kill individuals or destroy associated habitat) of species federally listed as threatened or endangered. Take incidental to otherwise lawful activities can be authorized by the U.S. Fish and Wildlife Service (USFWS) through a permit under Sections 4(d), 7, or 10(a).

Migratory Bird Treaty Act (U.S. Code, Title 16, Sections 703 Through 711)

The Migratory Bird Treaty Act (MBTA) is the domestic law that affirms or implements a commitment by the United States to four international conventions (with Canada, Mexico, Japan, and Russia) for the protection of a shared migratory bird resource. The MBTA makes it unlawful at any time, by any means, or in any manner to pursue, hunt, take, capture, or kill migratory birds. The law also applies to the removal of nests occupied by migratory birds during the breeding season. The MBTA makes it unlawful to take, pursue, molest, or disturb these species, their nests, or their eggs anywhere in the United States.

Bald and Golden Eagle Protection Act (U.S. Code, Title 16, Sections 668 Through 668d)

The Bald and Golden Eagle Protection Act prohibits the "take" (i.e., pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest, or disturb) of bald and golden eagles, including their parts, nests, or eggs, without a permit issued by the U.S. Fish and Wildlife Service (USFWS). This law provides additional protections beyond those offered by the Migratory Bird Treaty Act for these eagle species due to their cultural, historical, and ecological significance. Take that is incidental to otherwise lawful activities may be authorized through a permit, provided that the take is unavoidable and that all practicable measures to avoid and minimize impacts are implemented.

State

Birds of Prey Protection Provision (California Fish and Game Code, Section 3503.5)

This provision prohibits the taking of birds of prey (orders Falconiformes and Strigiformes), including their nests and eggs.

California Endangered Species Act (California Fish and Game Code, Section 2050 et seq.)

The California Endangered Species Act prohibits any activities that would jeopardize or take a species designated as threatened or endangered by the state.

California Environmental Quality Act, as Amended (California Public Resources Code, Section 21000 et seq.)

The goal of the California Environmental Quality Act (CEQA) is to assist California public agencies in identifying potentially significant negative environmental impacts caused by their actions and avoiding or mitigating those impacts when feasible.

California Fish and Game Code, Section 3503

California Fish and Game Code, Section 3503, prohibits the take, possession, or needless destruction of the nests or eggs of any birds except as otherwise provided by the California Fish and Game Code or any regulation made pursuant thereto.

California Fully Protected Wildlife Species Provision (California Fish and Game Code, Sections 3511, 4700, 5050, and 5515)

This provision prohibits the take of fully protected birds, mammals, amphibians, and fish.

California Native Plant Protection Act of 1977 (California Fish and Game Code, Sections 1900–1913)

This act preserves, protects, and enhances endangered or rare native plants of the state.

Natural Community Conservation Planning Act, as Amended (California Fish and Game Code, Sections 2800–2835)

The primary objective of the Natural Community Conservation Planning Act program is to conserve natural communities at the ecosystem level while accommodating compatible land use. The program seeks to anticipate and prevent the controversies and gridlock caused by species' listing by focusing on the long-term suitability of wildlife and plant communities and including key interests in the process.

Local

County of San Bernardino Countywide Plan

Natural Resources Element of the County's General Plan (San Bernardino County 2022) provides the following goals and policies that apply to the biological resources on the project site:

- **Goal NR-5: Biological resources.** An interconnected landscape of open spaces and habitat areas that promotes biodiversity and healthy ecosystems, both for their intrinsic value and for the value placed on them by residents and visitors.
  - **Policy NR-5.1: Coordinated habitat planning.** We participate in landscape-scale habitat conservation planning and coordinate with existing or proposed habitat conservation and natural resource management plans for private and public lands to increase certainty for both the conservation of species, habitats, wildlife corridors, and other important biological resources and functions; and for land development and infrastructure permitting.
  - **Policy NR-5.2: Capacity for resource protection and management.** We coordinate with public and nongovernmental agencies to seek funding and other resources to protect, restore, and maintain open space, habitat, and wildlife corridors for threatened, endangered, and other sensitive species.
  - **Policy NR-5.3: Multiple-resource benefits.** We prioritize conservation actions that demonstrate multiple resource preservation benefits, such as biology, climate change adaptation and resiliency, hydrology, cultural, scenic, and community character.
  - **Policy NR-5.6: Mitigation Banking.** We support the proactive assemblage of lands to protect biological resources and facilitate development through private or public mitigation banking. We require public and private conservation lands or mitigation banks to ensure that easement and fee title agreements provide funding methods sufficient to manage the land in perpetuity.
  - **Policy NR-5.7: Development review, entitlement, and mitigation**. We comply with state and federal regulations regarding protected species of animals and vegetation through the development review, entitlement, and environmental clearance processes.
  - **Policy NR-5.8: Invasive species.** We require the use of non-invasive plant species with new development and encourage the management of existing invasive plant species that degrade ecological function.

Methods

This letter report includes the results of a database review, biological resources survey, focused and protocol-level surveys, and aquatic resources delineations, which document the existing biological conditions in the survey area. The results of this review provide information on the potential constraints to project development due to the presence (or lack thereof) of sensitive biological resources.

Database Review

Review of online databases, including the California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CDFW 2025a), CDFW Biogeographic Information and Observation System (BIOS) (CDFW 2025b), USFWS Information for Planning and Consultation (IPaC) (USFWS 2025b), USFWS National Wetlands Inventory Wetlands Mapper (USFWS 2025a), Consortium of California Herbaria database (CCH 2025), Calflora Database (Calflora 2025), eBird online database (eBird 2025), and California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants of California (CNPS 2025), was conducted for the project site and within a 1-mile radius of the project site.

Field Reconnaissance Survey

On July 11 and 24, 2024, Harris conducted a high-level biological resources site assessment. On February 12, 2025, Harris conducted a biological reconnaissance survey and habitat assessment for special status wildlife and plant species, as well as a focused burrowing owl habitat assessment survey. Vegetation community and land cover type mapping was conducted during the February 12, 2025 survey.

The biological reconnaissance survey was conducted by walking meandering transects throughout the survey area and mapping vegetation communities, documenting plant and wildlife species, noting suitable habitat, and evaluating the potential for occurrence of sensitive, rare, threatened, and endangered plant and wildlife species (Attachment 2, Plant and Wildlife Species Observed). Vegetation mapping was recorded in the field using the ArcGIS Field Maps application with an aerial image of the survey area. Binoculars were used to visually identify wildlife species and listen for vocalizations. The results of the vegetation mapping are presented in the Results section. The potential for sensitive plant and wildlife species to occur in the survey area is presented in the Results section under Table 2, Sensitive Plant and Wildlife Species with Potential to Occur in the Survey Area.

Survey Limitations

Plants and wildlife were identified by direct observation, vocalizations, or other observance, including tracks, scat, and other signs. Therefore, lists of observed species are not necessarily comprehensive because the survey could have been conducted outside species blooming periods or the species could be in senescence, nocturnal, secretive, or within the region seasonally or during migration only and may not have been observed. However, Database Review can provide more certainty when combined with a biological survey.

Results

The results presented provide data from the surveys conducted in the survey area.

Vegetation Communities and Land Cover Types

The survey area is within the southwestern California region of the California Floristic Province (Jepson Online 2025). The vegetation classifications in this report conform to the Preliminary Descriptions of the Terrestrial Natural Communities of California (Holland 1986). A total of two vegetation communities and land cover types were observed in the survey area, Disturbed (ruderal) habitat and Urban/developed land. Table 1, Vegetation Communities and Land Cover Types, presents the acreages of the vegetation communities that occur on the project site and in the survey area. Figure 6, Vegetation Communities and Land Cover Types, presents the vegetation community boundaries (Attachment 1).

Table 1. Vegetation Communities and Land Cover Types

Vegetation Community and Land Cover Type	Project Site (acres)[1]	Survey Buffer (acres)[1]	Survey Area (acres)[1]
Disturbed/Developed			
Disturbed (ruderal) habitat	3.85	1.26	5.11
Urban/developed land	0.29	3.56	3.85
Developed/Disturbed Subtotal	*4.14*	*4.82*	*8.96*
Total	**4.14**	**4.82**	**8.96**

Sources: Holland 1986.
[1]Acreages rounded up to the nearest one-hundredth.

The vegetation communities observed on the project site and in the survey area are described in the following subsections.

Disturbed (Ruderal) Habitat

Disturbed (ruderal) habitat consists of previously disturbed areas that either are devoid of vegetation (dirt roads/trails) or support scattered non-native plant species like escaped ornamentals or ruderal exotic species that take advantage of disturbance, such as short-pod mustard (*Hirschfeldia incana*), tocalote (*Centaurea melitensis*), burclover (*Medicago polymorpha*), and filaree (*Erodium* spp.). These species are opportunistic and typically found in recently or repeatedly disturbed habitats, particularly in areas that have been graded, cleared for fuel management purposes, or experience ongoing use that prevents natural revegetation.

Approximately 5.11 acres of disturbed (ruderal) habitat occurs in the survey area (Figure 6). Disturbed (ruderal) habitat in the survey area is dominated by periodically disked bare ground with sparse species of mustard and other non-native plant species around the edges. The disturbed (ruderal) habitat in the survey area is primarily the open field in the center of the survey area.

Urban/Developed Land

Urban/developed land represents areas that have been constructed on or otherwise physically altered to an extent that native vegetation communities are not supported. This land cover type generally consists of semi-permanent structures, homes, parking lots, pavement or hardscape, and landscaped areas that require maintenance and irrigation (e.g., ornamental greenbelts). Typically, this land cover type is unvegetated or supports a variety of ornamental plants and landscaping.

Approximately 3.85 acres of urban/developed land occurs in the survey area (Figure 6). Urban/developed habitat in the survey area is predominantly paved roads and parking lots along the edge of the survey area.

Jurisdictional Aquatic Resources

No Jurisdictional Aquatic Resources appear to exist within the survey area. It should be noted that no formal jurisdictional aquatic delineation survey was conducted for this report.

Plant Species

Attachment 2 lists all plant species observed in the survey area during the 2025 biological resource survey. A total of nine plant species were observed in the survey area, two (22 percent) of which were native and seven (78 percent) of which were non-native. Of the nine plants observed in the survey area, none are designated as sensitive.

Wildlife Species

Attachment 2 lists all wildlife species detected in the survey area during the 2025 biological resource survey. Four birds and one mammal were observed in the survey area. Of the five species observed, none are considered sensitive.

Sensitive Species

Sensitive species are those recognized by federal, state, or local agencies as being potentially vulnerable to impacts because of rarity, local or regional reductions in population numbers, isolation/restricted genetic flow, or other factors. Sensitive plants include those listed as threatened or endangered, proposed for listing, or candidates for listing under the Federal Endangered Species Act by the USFWS (USFWS 2025c) and the California Endangered Species Act by the CDFW (CDFW 2025c); those considered species of special concern by the CDFW (CDFW 2025d); and those species included in the California Rare Plant Rank (CRPR) inventory maintained by the CNPS. Sensitive wildlife species include those listed as threatened or endangered, proposed for listing, or candidates for listing under the Federal Endangered Species Act by the USFWS (USFWS 2025c) and the California Endangered Species Act by the CDFW (CDFW 2025c) and those considered species of special concern by the CDFW (CDFW 2025d).

As described in the Methods section, distributions of historical sensitive species observations within a 1-mile radius of the project site were reviewed in preparation of this letter report and are depicted on Figure 7, Historical Species with Potential to Occur. Other database results are not included on Figure 7 because geographic information system (GIS) information on specific points was not available. For the purposes of this biological resources assessment, the species that are either known to occur or have some potential to occur within 1-mile of the survey area are addressed in this section. The list of sensitive plant and wildlife species observed or with a potential to occur in the survey area is provided in Table 2. Listing status, habitat requirements, and observation or potential for occurrence information are provided in Table 2.

Table 2. Sensitive Plant and Wildlife Species with Potential to Occur in the Survey Area

Scientific Name	Common Name	Status Federal/State/ CRPR	Habitat	Potential to Occur
Plants				
Atriplex coulteri	Coulter's saltbush	None/None/1B.2	Occurs in coastal bluff scrub, coastal dunes, coastal scrub, and valley and foothill grassland at elevations between 10 and 1,510 feet amsl. Blooms March through October.	**Not Expected**. No suitable bluff, scrub, dune, or grassland habitat is present. One historical location from 1917 exists within 1 mile of the survey area, but not within the survey area. (CDFW 2025a; CNPS 2025). Not observed during 2024 (survey conducted during the blooming period) or 2025 surveys.
Calystegia felix	lucky morning-glory	None/None/1B.1	Occurs in meadows and seeps and alluvial riparian scrub, often in alkaline or loamy soils at elevations between 100 and 705 feet amsl. Blooms March through September.	**Not Expected**. No suitable meadow or seep habitat is present. Historical locations exist within 1 mile of the survey area, but not within the survey area. (CDFW 2025a; CNPS 2025). Not observed during 2024 (survey conducted during the blooming period) or 2025 surveys.

Table 2. Sensitive Plant and Wildlife Species with Potential to Occur in the Survey Area

Scientific Name	Common Name	Status Federal/State/ CRPR	Habitat	Potential to Occur
Wildlife				
Invertebrates				
Danaus plexippus	Monarch butterfly[1] (California overwintering population)	FC(2024/None/-	Occurs in a variety of habitats where patches of milkweed (*Asclepias* sp.), the monarch caterpillar host plant, are present. Overwinter in groves of eucalyptus, cypress, and pine along the California coast and high-elevation forests in Mexico.	**Not Expected**. Limited suitable nectar sources for foraging are present. No milkweed patches suitable as host plants for caterpillars to occupy occur in the survey area. No pine, cypress, or eucalyptus trees suitable for overwintering are available surrounding the site. No historical locations exist within 1 mile of the survey area (CDFW 2025a, CDFW 2025b, USFWS 2025b). Not observed during the 2024 or 2025 surveys.
Amphibians				
Spea hammondii	Western spadefoot	FC(2023)/SSC/-	Occurs in open areas with sandy or gravelly soils, in a variety of habitats including mixed woodlands, grasslands, coastal scrub, chaparral, sandy washes, lowlands, river floodplains, alluvial fans, playas, alkali flats, foothills, and mountains. Vernal pools or similar shallow, temporary pools that do not contain bullfrogs, fish, or crayfish are necessary for breeding.	**Not Expected.** No suitable breeding habitat is present. No suitable breeding habitat is nearby to indicate the survey area would be used for migration. No historical locations exist within 1 mile of the survey area (CDFW 2025a, CDFW 2025b, USFWS 2025b). Not observed during the 2024 or 2025 surveys.
Reptiles				
Actinemys pallida	Southwestern pond turtle	FC(2023)/SSC/-	Occurs in slow-moving permanent or intermittent streams, ponds, small lakes, and reservoirs with emergent basking sites; adjacent uplands used for nesting and during winter. Nesting occurs from late May through mid-July. Restricted to the central Coast Range south from the middle of Monterey Bay to Baja California.	**Not Expected**. No suitable slow-moving or permanent water exists within the survey area. The survey area is not immediately adjacent to slow-moving or permanent water, so no breeding habitat is present. No historical locations exist within 1 mile of the survey area (CDFW 2025a, CDFW 2025b, USFWS 2025b). Not observed during the 2024 or 2025 surveys.

Table 2. Sensitive Plant and Wildlife Species with Potential to Occur in the Survey Area

Scientific Name	Common Name	Status Federal/State/ CRPR	Habitat	Potential to Occur
Birds				
Aquila chrysaetos	Golden eagle	BGEPA/WL/-	Occurs in mountains up to 12,000 feet amsl, canyon lands, rocky terrain, and riverside cliffs and bluffs. Nests on cliffs and sometimes on the ground and in human-made structures and towers. Forages in grassland, chaparral, shrubland, forest, and other vegetated areas.	**Low Foraging, Not Expected Nesting.** Suitable foraging habitat with prey sources is present within the disturbed habitat of survey area; however, the survey area is too urbanized to support foraging. No suitable cliff or tree nesting habitat around the survey area. Historical locations exist in the region but not within the survey area (Figure 7; CDFW 2025a; eBird 2025). Not observed during the 2024 or 2025 surveys.
Athene cunicularia hypugaea	Western burrowing owl	-/SC(2024)/-	Occurs in open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. Often associated with high densities of burrowing small mammals.	**Moderate Foraging, Moderate Nesting.** Suitable foraging habitat exists in the disturbed portion of the survey area. Marginally suitable burrows for nesting are present within the survey area. Historical locations exist in the region but not within the survey area (Figure 7; CDFW 2025a; eBird 2025). Not observed during the 2024 or 2025 surveys.
Circus hudsonius	Northern harrier	-/SSC/-	Nests in open wetlands (marshes, meadows, wet lightly grazed pastures, old fields, freshwater and brackish marshes). Also found nesting in grasslands and agricultural fields. Forages in grassland, scrub, emergent wetland, and other open habitats (including rangelands).	**Low Foraging, Not Expected Nesting.** Suitable foraging habitat in non-native grassland in the survey area; however, this species does not frequently forage in urban areas. No suitable nesting habitat is present within the survey area. Historical locations exist within 1 mile of the survey area but not within the survey area (eBird 2025, CDFW 2025a, CDFW 2025b). Not observed during the 2024 or 2025 surveys.

Table 2. Sensitive Plant and Wildlife Species with Potential to Occur in the Survey Area

Scientific Name	Common Name	Status Federal/State/ CRPR	Habitat	Potential to Occur
Empidonax traillii extimus	Southwestern willow flycatcher	FE/SE/None	Breeds in patchy to dense riparian habitats with water present. Usually found in riparian woodlands with a well-developed canopy and a thick understory, but not uniformly dense.	**Not Expected Foraging. Not Expected Nesting.** No willows or riparian habitat suitable for foraging or nesting occur within or near the project site. No historical locations exist within 1 mile of the survey area (CDFW 2025a, CDFW 2025b, USFWS 2025b). Not observed during the 2024 or 2025 surveys. No focused surveys were conducted for this biological assessment.
Contopus cooperi	Olive-sided flycatcher	-/SSC/-	Usually nests in boreal forest and western coniferous forests. Usually breeds along forest edges and openings.	**Low Foraging, Not Expected Nesting.** Marginally suitable foraging habitat exists within the survey area. No suitable forest edge habitat for breeding exists in the survey area. Historical locations exist within 1 mile of the survey area but not within (eBird 2025, CDFW 2025a, CDFW 2025b). Not observed during the 2024 or 2025 surveys.
Vireo bellii pusillus	Least Bell's vireo	FE/SE/None	Occurs in riparian scrub and riparian forest and is a summer resident in Southern California below 2,000 feet amsl.	**Not Expected Foraging. Not Expected Nesting.** No suitable foraging or nesting habitat is available within the project site. Historical locations exist within 1 mile of the survey area but not within (eBird 2025, CDFW 2025a, CDFW 2025b, USFWS 2025b). Not observed during the 2024 or 2025 surveys. No focused surveys were conducted for this biological assessment.

Table 2. Sensitive Plant and Wildlife Species with Potential to Occur in the Survey Area

Scientific Name	Common Name	Status Federal/State/ CRPR	Habitat	Potential to Occur
Polioptila californica californica	Coastal California Gnatcatcher	FT/SSC/-	Nests within coastal sage scrub dominated by California sagebrush and flat-top buckwheat along the coast (avoiding nesting in those dominated by black and white sage, lemonade berry, and laurel sumac) or occasionally Baccharis scrub. Inland, can be found in sage scrub-grassland or chaparral habitat interface. Generally occurs below 2,500 feet amsl.	**Not Expected Foraging. Not Expected Nesting.** No suitable foraging or nesting habitat available within the project site. Historical locations exist within 1 mile of the survey area but not within (eBird 2025, CDFW 2025a, CDFW 2025b, USFWS 2025b). Not observed during the 2024 or 2025 surveys. No focused surveys were conducted for this biological assessment.
Passerculus sandwichensis beldingi	Belding's savannah sparrow	-/SE/-	Found year round in coastal salt marshes and have a strong association with dense areas of pickleweed (*Salicornia pacifica*). Nesting and foraging occur within salt marsh habitat.	**Not Expected Foraging. Not Expected Nesting.** This species was identified by USFWS IPaC as having potential to be at this location (USFWS 2025b), however this species is found exclusively along the coast in California. No historical records have been documented within 1 mile of the project site (CDFW 2025a, CDFW 2025b, USFWS 2025b). Not observed during the 2024 or 2025 surveys.
Larus californicus	California gull	-/WL/-	Nests colonially, favoring islands or other sites that provide a barrier to terrestrial predators.	**Low Foraging, Not Expected Nesting.** Suitable foraging habitat exists within the survey area. No known breeding colony present within 1 mile of the survey area. Historical records of foraging exist within 1 mile of the survey area but not within (eBird 2025, CDFW 2025a, CDFW 2025b). Not observed during the 2024 or 2025 surveys.

Table 2. Sensitive Plant and Wildlife Species with Potential to Occur in the Survey Area

Scientific Name	Common Name	Status Federal/State/ CRPR	Habitat	Potential to Occur
Geothlypis trichas sinuosa	Saltmarsh common yellowthroat	-/SSC/-	Occurs in emergent wetlands. Resident and summer visitor to San Francisco Bay Area and surrounding; winters in San Diego along the coast.	**Not Expected Foraging. Not Expected Nesting.** This species was identified by USFWS IPaC as having potential to be at this location (USFWS 2025b); however, this species is found exclusively in the San Franscisco Bay Area of California. No historical records have been documented within 1 mile of the project site (CDFW 2025a, CDFW 2025b). Not observed during the 2024 or 2025 surveys.
Melospiza melodia graminea	Santa Barbara song sparrow	-/SSC/-	Exclusively found within the Channel Islands.	**Not Expected Foraging. Not Expected Nesting.** This species was identified by USFWS IPaC as having potential to be at this location (USFWS 2025b); however, this species is found exclusively on the Channel Islands off the coast of California. No historical records have been documented within 1 mile of the project site (CDFW 2025a, CDFW 2025b, USFWS 2025b). Not observed during the 2024 or 2025 surveys.
Agelaius tricolor	Tricolored blackbird	-/ST (nesting), SSC/-	Occurs in wetland and grassland habitats. Colonial nesting in wetlands with cattails, bulrushes, and willows. Are known to nest in agricultural fields and ditches. In San Diego County, known nesting only in Dameron Valley and Oak Grove, south to Ramona and Santa Ysabel, and the Campo Plateau from Potrero to Jacumba.	**Low Foraging, Not Expected Nesting.** Marginally suitable foraging habitat exists within the survey area. No suitable wetland habitat for breeding exists in the survey area. Historical locations exist within 1 mile of the survey area but not within (Figure 7) (CDFW 2025a, eBird 2025). Not observed during the 2024 or 2025 surveys.

Table 2. Sensitive Plant and Wildlife Species with Potential to Occur in the Survey Area

Scientific Name	Common Name	Status Federal/State/ CRPR	Habitat	Potential to Occur
Laterallus jamaicensis coturniculus	California black rail	FP/ST/-	Occurs in tidal salt marshes or grassy marshes with dense strands of grasses, rushes, and sedges for nesting.	**Not Expected Foraging; Not Expected Nesting**. Habitat required to support foraging and nesting for this species is not available in the survey area. No tidal marshes, marshes, or wet meadows available with adequate reed or rush species for refugia. One historical location from 1931 exists within 1 mile of the survey area (CDFW 2025a).
Coccyzus americanus occidentalis	Western yellow-billed cuckoo	FT/SE/-	Occurs in in dense riparian thickets or forests, particularly where willow species (*Salix* spp.) are present. Nesting also occurs in riparian areas, generally near willows.	**Not Expected Foraging. Not Expected Nesting.** No riparian habitat suitable for foraging or nesting occur within or near the project site. One historical location from 1931 exists within 1 mile of the survey area (Figure 7; CDFW 2025a). Not observed during the 2024 or 2025 surveys. No focused surveys were conducted for this biological assessment.

Notes: FE = federally endangered; FT = federally threatened; FC = federal candidate for listing; FP = Federally protected; BGEPA = Bald and Golden Eagle Protection Act; SE = state endangered; ST = state threatened; SC = State candidate for listing; SP = State Protected; SSC = state species of special concern; WL = state watch list species

CNPS Rare Plant Ranking

1B = rare, threatened, or endangered in California and elsewhere; 4 = a watch list of species of limited distribution

Threat Ranks: .1 = seriously threatened; .2 = moderately threatened; .3 = not very threatened

Sensitive Plant Species

No sensitive plant species were observed within the survey area. Two species have historical records within 1 mile of the project site and are therefore included on Figure 7, but both species are not expected to occur within the survey area and are not discussed further.

Sensitive Wildlife Species

No sensitive wildlife species were observed within the survey area. One sensitive wildlife species, western burrowing owl, has a moderate potential to occur within the survey area and is therefore discussed below. Three additional species have historical records within 1 mile of the survey area, but are not expected to occur while breeding within the survey area and are therefore included on Figure 7 but are not discussed further.

*Western Burrowing Owl (*Athene cunicularia hypugaea*), State Candidate*

Western burrowing owl is a USFWS Bird of Conservation Concern and CDFW candidate for listing as threatened. Western burrowing owls are typically year-round residents in Southern California. Individuals in the north may winter in the southern part of the state, but strong site fidelity is suggested (Zeiner et al. 1990). They are primarily a grassland species but do persist and can thrive within landscapes that are heavily altered by humans. Suitable habitat includes areas with burrows for roosting and nesting with relatively short vegetation and sparse shrubs and taller vegetation (Shuford and Gardali 2008). The existence of burrows is the most critical component of

western burrowing owl habitat. In California, western burrowing owls prefer open, dry grasslands and desert, pinyon-juniper and ponderosa pine habitats that have grass, forb, and open shrub stage areas with California ground squirrel-made burrows (Zeiner et al. 1990). They persist in urban and commercial areas that have concrete drainages, piles of concrete rubble, riprap, culverts, curbs, pipes, and other solid structures that have openings for nesting. While nests and roost burrows are typically dug by fossorial mammals like California ground squirrels, western burrowing owls are also known to use fox, coyote, and badger dens (Shuford and Gardali 2008).

A burrowing owl habitat assessment survey was conducted on February 12, 2025. Suitable foraging habitat and small mammal burrows suitable for nesting habitat were found to be present within the survey area. One historical record of a burrowing owl was observed within 1 mile of the survey area (CDFW 2025a), and multiple records are present within 1 mile of the survey area (CDFW 2025a; eBird 2025).

Nesting Birds

The survey area provides nesting habitat for several bird species, including raptors, which are protected under California Fish and Game Code and the MBTA. Pursuant to the MBTA, no grubbing, trimming, or clearing of vegetation from the project site shall occur during the general bird nesting season (January 15 through August 31). If grubbing, trimming, or clearing of vegetation cannot feasibly occur outside the general bird nesting season, the qualified biologist, as approved by the City of Chino, shall perform a pre-construction nesting bird survey no more than 5 days prior to the start of vegetation grubbing, trimming, or clearing to determine if active bird nests are present in the affected areas. Should an active bird nest be located, the qualified biologists shall establish a buffer of 50 to 500 feet as appropriate for the species as determined by the qualified biologist, and direct vegetation clearing away from the nest until the project biologist has determined that the young have fledged or the nest has failed. If no nesting birds (including nest building or other breeding or nesting behavior) are in the construction activity area, grubbing, trimming, or clearing shall proceed.

The ornamental oak and sycamore trees along the edge of the survey area provide marginal nesting habitat for many bird and raptor species, and the disturbed area within the survey area provides marginal nesting habitat for ground nesting bird species that are acclimated to urban activities. In addition, numerous small mammals and reptiles that occur within the survey area provide preferred prey items for raptors that could use the survey area for foraging near their nests.

Roosting Bats

High-quality sites for roosting bats are characterized by the presence of a patchwork of habitat types including perennial surface water, one or more woodland types, and coastal scrub or chaparral vegetation or grassland habitats within relatively large, relatively undisturbed tracts of contiguous land (Stokes et al. 2006). In addition, areas with rocky cliffs and outcrops, natural caves, buildings, mines, bridges, and artificial tunnels that provide roosting opportunities near suitable foraging habitat is highly desirable for non-tree dwelling species.

The survey area contains marginally suitable roosting and foraging habitat for common bat species. The presence of some suitable roosting habitat (i.e., trees) and suitable foraging habitat (i.e., open disturbed areas) indicates that bats that are habitat “generalist” species have low potential to be found in the survey area. Common species, including California myotis (*Myotis californicus*), big brown bat (*Eptesicus fuscus*), and hoary bat (*Lasiurus cinereus*), which can be found roosting in trees and forage over open space areas, have potential to be found in the survey area. No roosting habitat is present for sensitive species, and no sensitive species have historical occurrences within 1 mile of the survey area.

Other Unique Features and Resources

Critical Habitat

The potential presence of critical habitat in the survey area and within its 1-mile radius was analyzed. No critical habitat for sensitive plant or wildlife species occurs within 1 mile of the survey area.

Wildlife Corridors and Linkages

Wildlife corridors provide routes for local movement and also regional linkages and corridors, often following linear topographic, vegetation, or water features. These corridors can be continuous habitats, features, or "stepping stone" areas, providing critical rest and foraging areas for wildlife, such as birds traveling along migratory routes. Local routes of movement provide constant connections to resources, including water, home/cover sites, and foraging areas. Regional linkages and movement corridors provide larger patches of open space to allow relatively free movement of wildlife species along multiple paths between important resources. These areas allow for not only long-term genetic flow between subpopulations but also critical pathways of seasonal/migratory movements. Larger predatory mammals often use regional corridors for hunting and reproduction needs. Potential wildlife corridors can include streams, riparian areas, and culverts under roadways. Habitat characteristics considered include topography, habitat quality, and adjacent land uses.

During the surveys, biologists assessed the survey area for potential wildlife corridor and linkage functions. The survey area consists of open disturbed and urban habitat surrounded by urban development. The survey site provides only marginal foraging and breeding habitat for wildlife species and is likely only used as a local movement corridor for urbanized wildlife species, such as desert cottontail (*Sylvilagus audubonii*), western fence lizard (*Sceloporus occidentalis*), and mourning dove (*Zenaida macroura*).

Recommended Mitigation Measures

The following mitigation measure from the Certified EIR is applicable to the Proposed Project. Revisions to the mitigation measure are shown in underline and ~~strikeout~~.

Sensitive Wildlife Species

BIO-1: Burrowing Owl Surveys. Affected future developers shall retain a qualified biologist to help plan and monitor construction in or near the flood control/biological easement land. ~~The biologist will submit a report on the easement areas each year for three (3) years to the City Planning Department on the status of the Burrowing Owls.~~ Prior to issuance of grading permit, the applicant shall submit Burrowing Owl Survey to the City Planning Department.

Conclusion

The project site and survey area contain only disturbed and developed habitat that has limited value to native plant and wildlife species. The survey area contains no native vegetation communities, sensitive plant species, sensitive aquatic resources, or critical habitat. One sensitive wildlife species (western burrowing owl) has a moderate potential to be found on the project site or survey area. The survey area also provides potential habitat for nesting birds.

Implementation of Mitigation Measures BIO-1 and compliance with the MBTA willreduce impacts to biological resources from this project to less than significant levels.

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Attachments

1, Figures
2, Plant and Wildlife Species Observed

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Attachment 1. Figures

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Attachment 2. Plant and Wildlife Species Observed

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Appendix B.2. Focused Western Burrowing Owl Survey Report

Focused Western Burrowing Owl Survey Report

Chino Corporate Center Residential Project

July 2025

Prepared for:

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Acronyms and Abbreviations

°F	degrees Fahrenheit
CDFG	California Department of Fish and Game
CDFW	California Department of Fish and Wildlife
GPS	Global Positioning System
Harris	Harris & Associates
mph	miles per hour
project	Chino Corporate Center Residential Project

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Section 1 Introduction

Harris & Associates (Harris) was contracted by BCT Development to conduct focused western burrowing owl (*Athene cunicularia hypugaea*) surveys in support of the Chino Corporate Center Residential Project (project) in the City of Chino in San Bernardino County, California. This report serves as a summary of the results of the focused western burrowing owl surveys conducted during the 2025 breeding season.

1.1 Project Location

The project lies in the City of Chino in San Bernardino County (County), California, within Assessor's Parcel Number 102-521-129 (Appendix A, Figures; Figure 1, Regional Location, and Figure 2, Project Site). The survey area, defined as the project site and a 500-foot buffer surrounding it, is in a dense urban area consisting of commercial buildings and State Route 71 bordering the western side of the project site (Figure 2). Little Chino Creek, a concrete-lined channel, is approximately 0.05 mile north of the survey area, and several segments of undeveloped land occur east and west of the survey area but are separated from the survey area by commercial developments and major roads.

1.2 Project Description

The project involves building approximately 110 multi-family residential dwelling units on a 4.14-acre site. The project will consist of 14 housing buildings and landscaping, roadways, and parking.

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Section 2 Regulatory Settings

2.1 Federal and State

The western burrowing owl is designated as a Bird of Conservation Concern by the U.S. Fish and Wildlife Service and as a Species of Special Concern by the California Department of Fish and Wildlife (CDFW). It is also a candidate for listing under the California Endangered Species Act. The western burrowing owl and other nesting bird species are protected by California Fish and Game Code, Sections 3503 and 3503.5, and the Migratory Bird Treaty Act of 1918 (16 USC 703–711), which make it unlawful to take, possess, or needlessly destroy the nest or eggs of any migratory bird or bird of prey.

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Section 3 Natural History

Burrowing owls are broadly distributed in North America and are found throughout the western United States, Florida, the Bahamas, Central and South America, Hispaniola, Cuba, and the northern Lesser Antilles. Two subspecies are recognized in North America: *A. c. hypugaea* in the west, and *A. c. floridana* in Florida and the Bahamas (CDFG and Western Field Ornithologists 2008).

Western burrowing owls are typically year-round residents in Southern California. Individuals in the north may winter in the southern part of the state, but strong site fidelity is suggested (CDFG 1990). They are primarily a grassland species but persist and thrive within landscapes that are heavily altered by humans. Suitable habitat includes areas with burrows for roosting and nesting with relatively short vegetation, sparse shrubs, and taller vegetation (CDFG and Western Field Ornithologists 2008). Shrubs and trees are typically less than 30 percent coverage (Bates 2006). The existence of burrows is the most critical component of western burrowing owl habitat. In California, western burrowing owls prefer open, dry grasslands and desert, and pinyon-juniper and ponderosa pine habitats that have grass, forb, and open shrub stage areas with California ground squirrel (*Otospermophilus beecheyi*) burrows (CDFG 1990). In agricultural environments, western burrowing owls nest along roadsides and water conveyance structures, including open canals, drainages, and ditches. Western burrowing owls also nest near and under airport runways and associated structures. They persist in urban and commercial areas that have concrete drainages, piles of concrete rubble, riprap, culverts, curbs, pipes, and other solid structures that have openings for nesting. While nests and roost burrows are typically dug by fossorial mammals like California ground squirrels, western burrowing owls are also known to use fox, coyote, and badger dens (CDFG and Western Field Ornithologists 2008). Burrows are typically 436 feet apart but will defend within less than 50 feet of their burrow from other owls (CDFG 1990).

During breeding season, western burrowing owls forage close to their burrows (typically within 2,000 feet) but have been known to hunt as far as 1.68 miles away. Their diet consists of a broad array of arthropods (crickets, beetles, spiders, and grasshoppers), small rodents and birds, amphibians, reptiles, and carrion. Western burrowing owls hunt from a perch, then hover, dive, or hop on the prey on the ground (CDFG 1990). They will hunt during the day and at night.

Males conduct courtship displays and calls in front of a burrow, and breeding occurs from February through August, with the peak period being in April and May. Clutch sizes can range from two to 14 eggs, typically averaging five to six eggs. Young emerge from the burrow at approximately 2 weeks old and can fly by 4 to 6 weeks (CDFG 1990). Western burrowing owls may attempt a second brood if the first nesting attempt fails early in the season; otherwise, pairs produce a single brood each year. Pairs may use satellite burrows throughout the breeding season to protect themselves or their fledglings from predators or inclement weather (Biological Monitoring Program 2018).

Grinnell and Miller (1944) describe the historical range of western burrowing owls to be through the Central Valley in California, from Redding south to the Grapevine, east through the Mojave Desert, west to San José and San Francisco, within the outer coastal foothills area, and within the Sonoran Desert. At that time, this species was considered common or even abundant within the United States but was noted to be in decline due to residential development. Since 1945, the local distribution of western burrowing owls has changed considerably, but overall, the breeding range in California has changed little. The largest numbers of breeding pairs in the central and southern coasts of California are located within Riverside and San Bernardino Counties, collectively, followed by San Diego County.

Threats to western burrowing owls include habitat loss and degradation from rapid urbanization of former farmlands in the Central and Imperial Valleys. Elsewhere, ongoing urbanization, changes in agricultural practices, insecticide poisoning, and increased poisoning and eradication of California ground squirrels are threats that have increased extirpation and drastic reduction in population numbers.

Section 4 Methods

Prior to the initial site visit, a literature review was conducted for the project site to determine the status of western burrowing owls within the project vicinity. The literature review included a search of the CDFW's California Natural Diversity Database (CDFW 2025) and Cornell Lab of Ornithology's eBird (eBird 2025). There are multiple records of western burrowing owls within 5 miles of the project site on both the California Natural Diversity Database and eBird but no records within 1 mile of the project site.

Harris biologists conducted the surveys in accordance with the survey protocols outlined in the 2012 Staff Report on Burrowing Owl Mitigation (CDFG 2012). A preliminary habitat suitability assessment of the project site occurred on February 12, 2025, by Harris biologists. Surveys were not conducted during dense fog or high rain, wind, cloud cover, or temperature events. Harris biologists surveyed the project site and a 500-foot buffer (where feasible) on foot for suitability for western burrowing owls. Suitability for western burrowing owls was based on the potential presence of California ground squirrel burrows, as well as searching for western burrowing owls, pellets, prey remains, whitewash, or decoration. Surveyors also searched for other suitable structures and items that western burrowing owls typically use for shelter, including human-made structures such as earthen berms, cement culverts, cement, asphalt, concrete rubble piles, rock, or wood debris piles and openings under cement or asphalt pavement. All areas suitable for western burrowing owls to be found were marked with Global Positioning System (GPS).

After the habitat suitability assessment, Harris biologists conducted four rounds of surveys: one survey between February 15 and April 15, 2025, and three surveys, at least 3 weeks apart, between April 15 and July 15, 2025, with at least one survey after June 15, 2025, per the California Department of Fish and Game 2012 guidance. Surveys were conducted between morning civil twilight and 10:00 a.m. to provide the highest detection possibilities. Upon arrival on the project site and prior to initiating the surveys, Harris biologists used binoculars to scan all suitable habitat, including perch locations, to ascertain owl presence. All suitable areas of the project site and 500-foot buffer were then surveyed on foot by walking straight-line transects spaced approximately 21 feet to 60 feet apart, adjusting for vegetation height and density, to allow for 100 percent visual coverage of the ground surface. In addition, high points were used by biologists to scan the entire survey area to ensure that no areas had been missed and to allow for owls within the survey area to be observed without being disturbed by walking.

Western burrowing owl surveys were conducted in the survey area from March 6 through June 23, 2025. Table 1, Western Burrowing Owl Survey Conditions, provides the survey dates and environmental conditions for the four surveys. A total of 16 species of wildlife were observed during the surveys. Appendix B, Wildlife Species Observed, lists the wildlife species detected during the protocol surveys.

Table 1. Western Burrowing Owl Survey Conditions

Date (2025)	Type	Surveyor	Survey Period	Temp. (°F)	Cloud Cover % (Start–Finish)	Wind Speed (mph)
March 6	Burrow Focused Survey 1	Chris Thomson	7:10 a.m.–9:25 a.m.	59–63	75–90	0–2
April 18	Burrow Focused Survey 2	Chris Thomson	7:10 a.m.–9:50 a.m.	53–57	100-100	0–1
May 30	Burrow Focused Survey 3	Chris Thomson	7:15 a.m.–9:40 a.m.	62–71	0-0	0–4
June 23	Burrow Focused Survey 4	Chris Thomson	6:55 a.m.–9:10 a.m.	59–62	10–40	0–1

Notes: °F = degrees Fahrenheit; mph = miles per hour

Section 5 Results

5.1 Habitat Assessments

A habitat assessment survey was conducted on February 12, 2025, to assess the entirety of the project site plus a 500-foot buffer for suitable western burrowing owl habitat.

The project site consists entirely of flat, disked soil with little vegetative cover, and is surrounded by a mosaic of urban and commercial development, paved surfaces, and ruderal habitat. Numerous burrows—likely excavated by California ground squirrels—were identified within both the disked portion of the project site and the adjacent ruderal areas within the 500-foot survey buffer. These burrows offer low- to moderate-quality habitat for western burrowing owl, primarily due to their structural characteristics and the surrounding land use. Burrow entrances measuring a minimum of 4.3 inches in diameter are generally considered suitable for western burrowing owl occupancy, and several burrows observed during the habitat assessment exceeded this threshold. However, the overall habitat quality is potentially diminished by the frequent soil disturbance and the high degree of urbanization surrounding the site, which may limit foraging potential and increase disturbance levels and predator pressure.

5.2 Focused Surveys

No western burrowing owls or sign (i.e., whitewash, tracks, feathers, pellets) were observed during the focused western burrowing owl surveys conducted by Harris in 2025.

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Section 6 Conclusion

Although suitable western burrowing owl habitat was observed during the habitat assessment, and there are records of western burrowing owls within 5 miles of the project site, no western burrowing owls or sign were observed during the 2025 focused western burrowing owl surveys.

The majority of the site consists of disked ground, which significantly reduces the suitability of the habitat for western burrowing owl. Although several suitable burrows are present on the project site, only a subset of those are of sufficient size to be considered potentially suitable for western burrowing owl occupancy. Additional burrows with greater suitability are located within the 500-foot survey buffer; however, these are adjacent to a heavily trafficked freeway on ramp. The site and surrounding area are almost entirely bordered by urban and commercial development, which substantially limits foraging opportunities and increases levels of disturbance and predator pressure due to the number of urban hawks/raptors and high perching points for these species surrounding the site. While the survey area may offer marginally suitable habitat during overwintering, the likelihood of long-term western burrowing owl use or occupation during breeding season is considered low due.

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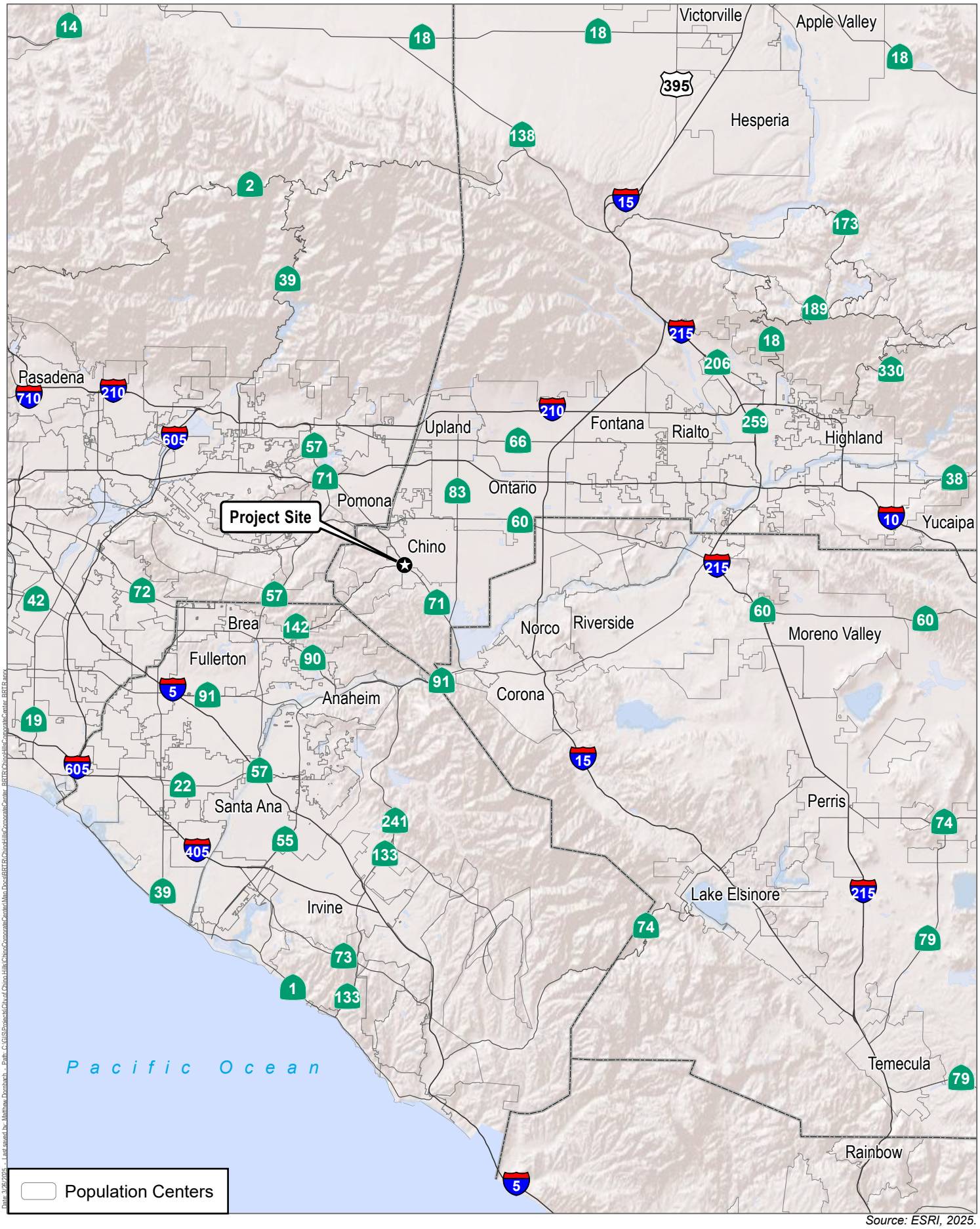
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Appendix A. Figures

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Source: ESRI, 2025.

Harris & Associates

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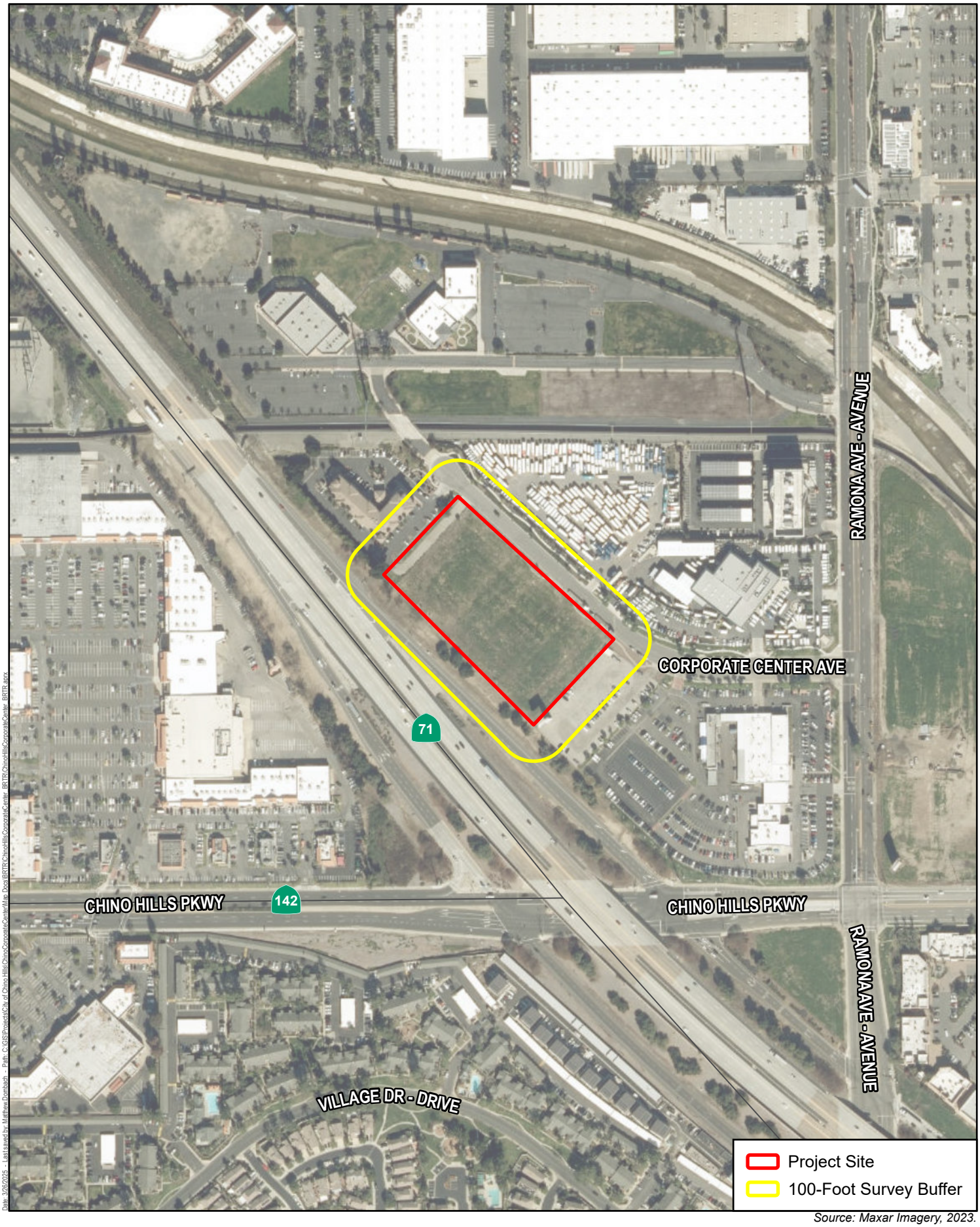
0 5 10

Miles

Figure 1

Regional Location

Chino Corporate Center Residential Project



Source: Maxar Imagery, 2023.

Harris & Associates

N

0 200 400

Feet

Figure 2

Project Site

Chino Corporate Center Residential Project

Appendix B. Wildlife Species Observed

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Wildlife Species Detected

Scientific Name	Common Name	Special Status
VERTEBRATES		
Birds		
Anas platyrhynchos	Mallard	
Buteo jamaicensis	Red-tailed Hawk	
Columba livia	Rock Pigeon	
Zenaida macroura	Mourning Dove	
Melanerpes formicivorus	Acorn Woodpecker	
Sayornis nigricans	Black Phoebe	
Sayornis saya	Say's Phoebe	
Tyrannus vociferans	Cassin's Kingbird	
Corvus brachyrhynchos	American Crow	
Eremophila alpestris actis	California Horned Lark	
Psaltriparus minimus	Bushtit	
Mimus polyglottos	Northern Mockingbird	
Sturnus vulgaris	European Starling	
Melospiza melodia	Song Sparrow	
Haemorhous mexicanus	House Finch	
Carduelis psaltria	Lesser Goldfinch	

Legend

*= Non-native or invasive species

Special Status:

Federal:
FE = Endangered
FT = Threatened

State:
SE = Endangered
ST =Threatened
CSC = California Species of Special Concern
CFP = California Fully Protected Species

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Appendix C. Geotechnical Investigation



CORPORATE CENTER CHINO
CHINO, CALIFORNIA

PRELIMINARY GEOTECHNICAL EXPLORATION

SUBMITTED TO
Mr. Clarke Campion
BCT Dev Acquisition Co, LLC
130 Newport Center Dr.
Newport Beach, CA 92660

PREPARED BY
ENGEO Incorporated

July 24, 2024

PROJECT NO.
25751.000.001

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ENGEO
Expect Excellence

Project No.
25751.000.001

July 24, 2024

Mr. Clarke Campion
BCT Dev Acquisition Co, LLC
130 Newport Center Dr.
Newport Beach, CA 92660

Subject: Corporate Center Chino
Corporate Center Avenue
Chino, California

PRELIMINARY GEOTECHNICAL EXPLORATION

Dear Mr. Campion:

ENGEO prepared this preliminary geotechnical report for BCT Dev Acquisition Co, LLC as outlined in our agreement dated May 21, 2024. This report presents the results of our preliminary geotechnical exploration for the project, as well as our preliminary recommendations to support planning of the proposed residential development.

It is our opinion, from a geotechnical engineering viewpoint, that the site is suitable for the proposed development, provided the preliminary recommendations and guidelines presented in this report are implemented during initial project planning. As plans progress, a design-level geotechnical exploration should be conducted to further evaluate the geotechnical hazards identified in this report and to develop design-level geotechnical recommendations for grading and foundation design.

We are pleased to have been of service on this project and are prepared to consult further with you and your design team as the project progresses. If you have any questions or comments regarding this preliminary report, please call and we will be glad to discuss them with you.

Sincerely,

ENGEO Incorporated

Tania Zakaria

Julia Moriarty, GE

REGISTERED PROFESSIONAL ENGINEER
JULIA A. MORIARTY
No. 2679
GEOTECHNICAL
STATE OF CALIFORNIA

tz/sb/jam/dt

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APPENDIX B – CPT Data (KTE, 2024)

1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

The purpose of this preliminary geotechnical report is to provide a preliminary assessment of geotechnical conditions and hazards associated with the site and to present preliminary recommendations to support planning of the proposed residential development. Our services included the following tasks.

- Review available literature and geologic maps
- Review select historical aerial photographs
- Perform initial subsurface field exploration and percolation testing
- Analyze geotechnical data collected
- Develop preliminary geotechnical recommendations
- Develop recommendations for design-level study
- Prepare a preliminary geotechnical report

For our use, we received a Conceptual Site Plan dated May 29, 2024, which depicts the planned development of the site to be multi-family residential rowhouse-style buildings, a recreational area with pool, common areas, and associated landscaping, streets, utilities, and parking areas.

This report was prepared for the exclusive use of our client and their consultants for design of this project. In the event that any changes are made in the character, design, or layout of the development, we should be contacted to review the conclusions and recommendations contained in this report to evaluate whether modifications are recommended. This document may not be reproduced in whole or in part by any means whatsoever, nor may it be quoted or excerpted without our express written consent.

1.2 PROJECT LOCATION

The approximately 4.1-acre site is identified by Assessor's Parcel Number (APN) 102-521-129 and is located at 4401 and 4345 Corporate Center Avenue in Chino, California, as shown in the Vicinity Map, Figure 1. The site is bounded by a hotel to the west, Corporate Center Avenue to the north, a parking lot to the east, and State Route 71 to the south.

The site is presently vacant and covered with seasonal grasses. We show the boundary of the project site and approximate locations of our preliminary field exploration in the Site Plan, Figure 2.

1.3 PROPOSED PROJECT DEVELOPMENT

Based on the provided conceptual site plan (TCA Architects, 2024), the planned development is anticipated to consist of construction of multi-family rowhouse-style buildings (three-stories high, total 108 units), paved drive aisles, parking spaces, a recreational area with a pool, and landscaped recreational common areas.

2.0 FINDINGS

2.1 SITE HISTORY

We reviewed select available aerial photographs and topographic maps of the site, dated between 1896 and 2023. We obtained the photographs from Environmental Data Resources, Inc. (EDR) during preparation of our concurrent Phase I Environmental Site Assessment (ENGEO, 2024), and from other publicly available sources.

Beginning in 1902, the site is depicted in topographic maps southwest of Chino Creek. In the 1933 topographic map, Pipeline Avenue is mapped west of the site extending north-south, Eucalyptus Avenue is mapped north of the site extending east-west, Ramona Avenue is mapped east of the site extending north-south, and a road south of the site is labeled Carbon Canyon Road to the west and Merrill Avenue to the east. A dam is mapped south of the site near an unlabeled lake, and the site is mapped outside the City of Chino, with the City boundary ending approximately 1 mile northeast of the site.

The site appears to be used for agriculture in aerial photographs from 1938 to 1975. Residential and agricultural use is shown in aerial photographs beginning in 1938 and in topographic maps beginning in 1942, with the Los Serranos residential development expanding southwest of the site in 1966.

State Route 71 is shown south of the site in topographic maps beginning in 1942.

In a 1963 aerial photograph, an oval-shaped clearing is visible northeast of the site, which appears to be a racetrack. This area is labeled “Gaging Station” in topographic maps between 1967 and 1981. The 1967 topographic map also depicts a fire station northwest of the site, a trailer park and Chino Sewage Disposal east of the site, and a well northeast of the site.

In 1981, Merrill Avenue is also labeled as State Route 142 (Chino Hills Parkway) south of the site in topographic maps.

New commercial developments appear north, west, and east of the site in the 1985 aerial photograph, and commercial developments continue to expand between the 1980s and 2000s. Additional residential development is also visible south of the site beginning in 1989.

The site appears largely unchanged between 1985 and 2022. The City of Chino Hills is newly labeled northeast of the site in the 2012 topographic map.

2.2 SURFACE CONDITIONS

Our review of the topographic maps shows that the site is relatively flat. Google Earth shows the ground surface ranges from Elevation 640 feet (Datum: NAVD88) in the northwest to approximately Elevation 635 feet to the southeast. During our most recent site visit on July 12, 2024, we observed that the site is vacant and blanketed with seasonal vegetation.

2.3 PRELIMINARY FIELD EXPLORATION

Our field exploration included advancing cone penetration test (CPTs) at five locations and drilling three borings that were converted to conduct percolation tests at the locations shown in Site Plan,

Figure 2. We performed our field exploration on July 11 and 12, 2024. The location and elevations of our explorations are approximate and were estimated by field personnel using GPS on cellular phones; they should be considered accurate only to the degree implied by the method used.

2.3.1 Borings

We observed drilling of three borings at the locations shown in the Site Plan, Figure 2. These were later converted into percolation test holes. An ENGEO geologist observed the drilling and logged the subsurface conditions at each location. We retained a truck-mounted CME 75 drill rig and crew to advance the borings using 8-inch-diameter hollow-stem auger methods. The borings were advanced to a depth to 20 feet below existing grade. We permitted and backfilled the borings in accordance with the requirements of San Bernardino County.

We recorded the blow counts of the sampler as they advanced into the bottom of the boring with a 140-pound hammer falling 30 inches. The Modified California sampler was driven 18 inches and the number of blows was recorded for each 6 inches of penetration. Unless otherwise indicated, the blows per foot recorded on the boring log represent the accumulated number of blows to drive the sampler through the last 1 foot of penetration; the blow counts have not been converted using any correction factors. The logs depict subsurface conditions at the exploration locations during the exploration; however, subsurface conditions may vary with time. The boring logs are included in Appendix A.

2.3.2 Cone Penetration Tests

We retained the services of a licensed contractor operating a truck-mounted CPT rig to advance CPTs at five locations, as shown in Figure 2. The CPTs were advanced to depths ranging from approximately 50 to 91 feet below the ground surface (bgs), where each met refusal to further advancement on very dense sand or very stiff silt.

The CPT has a 20-ton compression-type cone with a 15-square-centimeter (cm^2) base area, an apex angle of 60 degrees, and a friction sleeve with a surface area of 225 cm^2. The cone, connected with a series of rods, is pushed into the ground at a constant rate. Cone readings are taken at approximately 5-cm intervals with a penetration rate of 2 cm per second in accordance with ASTM D5778. Measurements include the tip resistance to penetration of the cone (Qc), the resistance of the friction sleeve (F_s), and pore pressure (U) (Robertson and Campanella, 1988). Additionally, one CPT was a seismic CPT in which in situ shear wave velocities were measured in 5-foot increments. CPT logs are presented in Appendix B.

2.3.3 Percolation Testing

Three percolation test holes (1-P1 through 1-P3) were installed and field tests were performed within the vicinity of the three proposed stormwater management facilities. According to information provided to us by Fuscoe Engineering, Inc, we understand that the design of the stormwater management facilities are proposed to be at a depth of approximately 20 feet below the ground surface; therefore, we targeted strata within that zone to run our percolation tests. The locations of our percolation tests are shown in the Site Plan, Figure 2.

We performed the percolation tests in general accordance with the procedures described in the 2011 Riverside County Design Handbook for Low Impact Development Best Management Practices, as recommended by the San Bernadino County Technical Guidance Document (2011) for recommended infiltration investigation methods.

An ENGEO geologist observed the drilling and noted that the soil at the bottom of the test holes 1-P1 and 1-P2 consisted of silty sand, and the soil at the bottom of test hole 1-P3 consisted of poorly graded sand, based on visual observation of the borehole cuttings. After drilling was complete, we placed a 2-inch-thick layer of pea gravel in the bottoms of the holes. We then placed a 2-inch-diameter perforated PVC pipe in the center of the holes and backfilled the annulus between the pipe and the boring sidewalls with gravel. The holes were presoaked overnight prior to performing the percolation tests. Municipal drinking water was used for the percolation testing. For our test purposes, we assume the percolation rate of drinking water is similar to stormwater.

At the start of each test, the hole was filled with water. The water level was then measured at appropriate intervals until the percolation rate stabilized. At the end of each interval, additional water was added, as needed, to reset the water level.

2.3.3.1 Percolation Testing Results

The results of our field percolation testing are presented in Table 2.3.3.1-1, which includes the assumed infiltration media soil type according to the Unified Soil Classification System (USCS), test depths, field-measured percolation rates, and estimated infiltration rates using Porchet's method (Inverse Borehole Method). Field-measured percolation rates have no reduction or safety factors applied. The assumed soil type is based on visual field classification.

TABLE 2.3.3.1-1: Percolation Test Results and Calculated Infiltration Rates

LOCATION	TEST DEPTH (feet)	SOIL PROFILE	FIELD PERCOLATION RATE (in/hr)	CALCULATED INFILTRATION RATE (in/hr)
1-P1	20	Silty Sand (SM)	263	2
1-P2	20	Silty Sand (SM)	162	1
1-P3	20	Poorly Graded Sand (SP)	372	3

The field percolation rates and calculated infiltration rates are unfactored data and the design engineer should consider appropriate conversion factors or factors of safety when designing the stormwater management facilities. The rates reported above are based on the conditions at the location, depth, and time of the test. Actual rates can be affected by changes in subsurface conditions, test methodology, time of year, and the rate and depth at which water is applied.

Appropriate engineering judgment should be applied to the use of these test data for stormwater infiltration, including the feasibility of on-site infiltration by the designer.

2.4 SUBSURFACE CONDITIONS

Based on our interpretation of the CPT data and the percolation test holes, the site soil is predominantly comprised of soft silt in the upper 2 to 4 feet, followed by medium stiff to stiff silt with varying amounts of sand and medium dense sand and silty sand.

2.5 GROUNDWATER CONDITIONS

We observed static groundwater in several of our subsurface explorations. Based on our review of nearby wells on the GeoTracker and Department of Water Resources Online Water Data Library, groundwater was also observed in nearby wells. We summarize groundwater depth observations in the table below,

TABLE 2.5-1: Depth to Groundwater

EXPLORATION LOCATION	APPROX. DEPTH TO GROUNDWATER (feet)
CPT-1	15
CPT-2A	34
CPT-3	38
CPT-4	17
Well 0 to ¼ mile southwest	10.1 to 13.7
Well 0 to ¼ mile southwest	19.7 to 21.9
Well ¼ to ½ mile southwest	13.1 to 17.1
Well ½ to 1 mile northwest	41.2 to 49.2

Fluctuations in the level of groundwater may occur due to variations in rainfall, irrigation practice, and other factors not evident at the time measurements were made.

2.6 REGIONAL AND LOCAL GEOLOGY

The site is located within the northern portion of the Peninsular Ranges geomorphic province, near the western boundary of the Chino Basin. The Chino Basin contains Pleistocene and Holocene sedimentary alluvial units with depositional control from the Santa Ana River. Regional mapping (Morton et al., 2001), as shown in Figure 3, identifies the eastern and central portion of the site to be underlain by Holocene and late Pleistocene Young axial-channel deposits (Qyaa), consisting of moderately consolidated silt, sand, and gravel deposits. The westernmost portion of the site is underlain by middle Holocene Young alluvial channel deposits (Qyf3a), Unit 3, consisting of slightly to moderately consolidated silt, sand, and coarse-grained sand to bouldery alluvial-fan deposits having slightly to moderately dissected surfaces.

2.7 SITE SEISMICITY

The Southern California area contains numerous active earthquake faults. An active fault is defined by the California Geologic Survey as one that has had surface displacement within Holocene time (about the last 11,700 years) (CGS, 2018).

The site is not located within a currently designated Alquist-Priolo Earthquake Fault Zone and no known surface expression of active faults is believed to exist within the site. Fault rupture through the site, therefore, is not anticipated.

Numerous small earthquakes occur every year in the Southern California Region, and larger earthquakes have been recorded and can be expected to occur in the future. Figure 4 shows the approximate locations of these faults and significant historic earthquakes recorded within the Southern California Region. The Uniform California Earthquake Rupture Forecast (UCERF3) (Field et al, 2015) estimates the 30-year probability for a magnitude 6.7 or greater earthquake in Southern California at approximately 93 percent, considering the known active seismic sources in the region.

To evaluate nearby active faults that are capable of generating strong seismic ground shaking at the site, we utilized the USGS Unified Hazard Tool and disaggregated the hazard at the peak ground acceleration (PGA) for a 2,475-year return period, with the resulting faults listed below in Table 2.7-1.

TABLE 2.7-1: Faults Considered Capable of Producing Strong Ground Shaking at the Site*
Site Latitude: 34.1481 Longitude: -117.4561

SOURCE NAME	RUPTURE DISTANCE, R_{RUP}		MOMENT MAGNITUDE, M_W
	(km)	(mi)	
Chino [1] (1)	1.77	1.09	6.32
Chino [1] (2)	3.99	2.48	6.60
Chino [1] (3)	8.48	5.27	6.85
Whittier [1] (3)	10.55	6.56	7.43
Whittier [1] (2)	10.57	6.57	7.21
Sierra Madre (0)	16.63	10.33	7.71
San Jacinto (San Bernardino) (0)	36.26	22.53	8.11
San Andreas (San Bernardino, north) (0)	39.38	24.48	8.01

*Based on USGS Earthquake Hazard Toolbox: NSHM Conterminous U.S. 2018

These results represent known fault sources contributing at least 1 percent to the seismic hazard at the site considering spectral periods ranging from the peak ground acceleration (PGA) to 5 seconds for the given return period. The rupture distances (R_{RUP}) and mean moment magnitudes (M_W) listed are based on values assigned according to the 2018 NSHM, and the numbers in parentheses after the fault names correspond to fault subsections assigned by the NSHM. Note that the above fault table is not an exhaustive list and other faults in the region may generate seismic shaking at the project site.

The Chino Fault, a branch of the Elsinore Fault Zone, is located one mile west of the project site, and extends from the northwest to the southeast along the western boundary of the Chino Basin. It is, in part, responsible for uplift of the Puente Hills and Chino Hills, which form a continuous belt of low hills west of the Chino Fault.

In 2014, the Working Group on California Earthquake Probabilities estimated the 30-year likelihood of one or more M_W 6.7 or greater earthquake events in the Southern California region at approximately 93 percent, considering the known seismic sources in the region.

3.0 GEOLOGIC AND GEOTECHNICAL HAZARDS

3.1 NEAR-SURFACE LOOSE ALLUVIAL DEPOSITS

Based on subsurface soil conditions correlated or encountered in our CPTs and borings, respectively, the site is underlain by loose alluvial deposits in the upper 2 to 4 feet of the subsurface. Loose soil may undergo excessive total and differential settlement unless mitigated. We recommend mitigation of the loose near-surface soil by overexcavating and recompacting as recommended in Section 4.1.2 of this report. The limits and depths of these materials should be further explored during the design-level geotechnical exploration.

3.2 EXPANSIVE SOIL

We observed lenses of potentially expansive silty clay near the surface of the site in the CPTs. Expansive soil changes in volume with changes in moisture. They can shrink or swell and cause heaving and cracking of slabs-on-grade, pavements, and structures founded on shallow foundations. Building damage due to volume changes associated with expansive soil can be reduced by: (1) using a rigid mat foundation that is designed to resist the settlement and heave of expansive soil, (2) deepening the foundations to below the zone of moisture fluctuation, i.e., by

using deep footings or drilled piers, and/or (3) using footings at normal shallow depths but bottomed on a layer of select fill having a low expansion potential.

We recommend evaluating the expansion potential of near-surface soil during the design-level study. Recommendations should be provided to reduce impacts on foundations, pavements, and surface improvements.

3.3 SEISMIC HAZARDS

Potential seismic hazards resulting from a nearby moderate to major earthquake can generally be classified as primary and secondary. The primary effect is ground rupture, also called surface faulting. The common secondary seismic hazards include ground shaking, liquefaction, dynamic densification settlement, and ground lurching. The following sections present a discussion of these hazards as they apply to the site.

Other hazards were also assessed as part of this study. Based on topographic and lithologic data, the risk of regional subsidence or uplift, lateral spreading, landslides, tsunamis, or seiches are considered low to negligible at the site.

3.3.1 Ground Rupture

Since there are no known active faults crossing the property and the site is not located within an Earthquake Fault Special Study Zone, it is our opinion that ground rupture is unlikely at the subject property.

3.3.2 Ground Shaking

An earthquake of moderate to high magnitude generated within the Southern California region could cause considerable ground shaking at the site, similar to that which has occurred in the past. To mitigate the shaking effects, structures should be designed using sound engineering judgment and the latest edition of the California Building Code (CBC) requirements, as a minimum. Seismic design provisions of current building codes generally prescribe minimum lateral forces, applied statically to the structure, combined with the gravity forces of dead and live loads. The code-prescribed lateral forces are generally considered to be substantially smaller than the comparable forces that would be associated with a major earthquake. Therefore, structures should be able to: (1) resist minor earthquakes without damage, (2) resist moderate earthquakes without structural damage but with some non-structural damage, and (3) resist major earthquakes without collapse but with some structural, as well as non-structural damage. Conformance to the current building code recommendations does not constitute any kind of guarantee that significant structural damage would not occur in the event of a maximum magnitude earthquake; however, it is reasonable to expect that a well-designed and well-constructed structure will not collapse or cause loss of life in a major earthquake (SEAOC, 1996). Section 3.7 presents California Building Code (CBC, 2022) seismic design parameters.

3.3.3 Liquefaction

The site has not been evaluated/mapped by the California Geological Survey for liquefaction hazards. Soil liquefaction results from loss of strength during cyclic loading, such as imposed by earthquakes. The soil most susceptible to liquefaction is clean, loose, saturated, uniformly graded fine sand below the groundwater table. Empirical evidence indicates that loose silty sand is also potentially liquefiable. When seismic ground shaking occurs, the saturated sandy soil is subjected

to cyclic shear stresses that can cause excess pore-water pressures to develop due to volumetric repositioning of soil particles. As excess pore-water pressures approach the effective confining stress from the overlying soil, the sand will experience a reduction in effective shear strength and may experience deformation. If the pore-water pressures exceed the effective confining stress, the sand particles are free to move within the soil-water matrix without significant resistance, at which point the soil is said to have liquefied. If the sand consolidates or vents to the surface (known as “sand boils”) during and following liquefaction, ground settlement and surface deformation may occur. In addition to liquefaction of sandy materials, clayey soil can also experience “cyclic softening” or strength loss due to cyclic loading. Since the site is composed of many thick clay layers, we considered this effect in our liquefaction screening process and analyses.

The sand layers encountered in our explorations were generally loose to medium dense. As described in Section 2.5, groundwater was reported at a minimum depth of approximately 15 feet at the site. To evaluate the liquefaction potential of the site soils, we performed liquefaction screening analysis on the five CPTs advanced at the site.

We evaluated the liquefaction potential using CPT-based liquefaction analysis methods. We utilized the commercially available software program CLiq v.3.5.2.22 and incorporated NCEER (1998), Idriss and Boulanger (2008), and Robertson (2009). We analyzed the liquefaction potential of the CPTs using the field high groundwater elevation of 15 feet, an earthquake magnitude of 6.68, and mapped MCEG peak ground acceleration (PGAM) of 0.86g for a Site Class D.

Based on our preliminary assessment, we estimate liquefaction settlements up to ¾ inch. Potential liquefaction settlement shall be further evaluated during the design-level study based on borings and laboratory testing.

3.3.4 Dynamic Densification Settlement

Densification of loose and generally clean granular soil above the groundwater surface can cause settlement of the ground surface due to earthquake-induced vibrations. We performed a preliminary CPT-based analysis of potential dynamic densification settlement layers within the probed depths and above the ground water table using the method proposed by Robertson and Shao (2010).

Based on our preliminary assessment, we estimate dry sand settlements up to ½ inch. Potential dynamic densification settlement shall be further evaluated during the design-level study based on borings and laboratory testing.

3.3.5 Ground Lurching

Ground lurching is a result of the rolling motion imparted to the ground surface during energy released by an earthquake. Such rolling motion can cause ground cracks to form in weaker soil. The potential for the formation of these cracks is considered greater at contacts between deep alluvium and bedrock. Such an occurrence is possible at the site as in other locations in the Southern California region, but based on the site location, it is our opinion that the offset is expected to be minor. We provide recommendations for foundation and pavement design in this report that are intended to reduce the potential for adverse impacts from lurch cracking.

3.4 COMPRESSIBLE SOIL

Soft saturated soil is subject to settlement when a new loading is introduced by structures or fill. Based on our review of boring and CPT logs, soft to medium stiff saturated clay was not encountered below the groundwater. Soft to medium stiff clay deposits may undergo settlement in response to new loads. We performed load-induced settlement analyses for the planned residential structures based on an assumed structural mat foundation type with an anticipated average uniform loading of 500 pounds per square foot (psf), and approximately 2 feet of fill. Based on the above conditions, we estimate less than ¼ inch of total load-induced settlement may occur. Once building project plans and building loads are further defined, we can reassess our settlement analyses. If changes to the planned development result in changes to the above assumptions, we should also review and update our analysis as needed.

3.5 FLOODING

Based on site elevation and distance from water sources, flooding is not expected at the subject site. The site is not mapped within the FEMA 100-Year Flood Zone or the 500-Year Flood Zone. FEMA's flood hazard zones are established based on historical data and may not fully predict the future areas that are most at risk of flooding or the frequency of future flood events.

The civil engineer should review pertinent information relating to possible flood levels for the subject site based on final pad elevations and provide appropriate design measures for development of the project, if recommended.

3.6 SOIL CORROSION POTENTIAL

Our scope did not include sampling and testing for corrosion potential as part of this preliminary study. Representative samples of the foundation grade soil should be obtained during the design-level study to determine the potential for corrosion on buried metal and the potential for sulfate attack on foundation concrete and buried pipelines. If necessary, a corrosion consultant can determine if special design considerations are necessary in accordance with the most recent edition of the California Building Code (CBC).

3.7 2022 CBC SEISMIC DESIGN PARAMETERS

The 2022 CBC utilizes seismic design criteria established in the ASCE/SEI "Standard Minimum Design Loads and Associated Criteria for Buildings and Other Structures," (ASCE 7-16). Based on the seismic CPT shear wave measurements, we characterized the site as Site Class D.

ASCE 7-16 requires a site-specific ground-motion hazard analysis for Site Class D sites with a mapped S_1 value greater than or equal to 0.2; however, Section 11.4.8 of ASCE 7-16 and Supplement No. 3 provide an exception to this requirement. A site-specific ground-motion hazard analysis is not required where the value of the parameter S_{M1} determined by Equation 11.4-2 and shown in Table 3.7-1 is increased by 50 percent for developing the mapped risk-targeted maximum considered earthquake (MCER) spectral response. Similarly, the S_{D1} value presented in Table 3.7-1 should be increased by 50 percent when evaluating C_s in accordance with Chapter 12 of ASCE 7-16.

We provide the CBC seismic parameters based on the United States Geological Survey's (USGS) Seismic Design Maps in Table 3.7-1. When using this table, consideration should be given to exceptions in Section 11.4.8 of ASCE 7-16, as described above.

TABLE 3.7-1: 2022 CBC Seismic Design Parameters, Latitude: 34.1481 Longitude: -117.4561

PARAMETER	VALUE
Site Class	D
Mapped MCE_R Spectral Response Acceleration at Short Periods, S_S (g)	1.824
Mapped MCE_R Spectral Response Acceleration at 1-second Period, S_1 (g)	0.646
Site Coefficient, F_a	1
Site Coefficient, F_v	*1.7**
MCE_R Spectral Response Acceleration at Short Periods, S_{MS} (g)	1.824
MCE_R Spectral Response Acceleration at 1-second Period, S_{M1} (g)	*1.098**
Design Spectral Response Acceleration at Short Periods, S_{DS} (g)	1.216
Design Spectral Response Acceleration at 1-second Period, S_{D1} (g)	*0.732**
Mapped MCE Geometric Mean (MCE_G) Peak Ground Acceleration, PGA (g)	0.778
Site Coefficient, F_{PGA}	1.1
MCE_G Peak Ground Acceleration adjusted for Site Class effects, PGA_M (g)	0.856
Long period transition-period, T_L (sec)	8

*The parameters above should only be used for calculation of T_s, determination of Seismic Design Category, and, when taking the exceptions under Items 1 and 2 of ASCE 7-16 Section 11.4.8. (Supplement Number 3 https://ascelibrary.org/doi/epdf/10.1061/9780784414248.sup3).

We recommend that we collaborate with the structural engineer-of-record to further evaluate the effects of taking the exception on the structural design and identify the need for performing a site-specific ground-motion hazard analysis. We can prepare a proposal for a site-specific ground-motion hazard analysis, if requested.

4.0 PRELIMINARY GEOTECHNICAL RECOMMENDATIONS

The preliminary geotechnical recommendations included in this report should be utilized for project planning purposes and are intended for the areas of the site that will be developed with structural improvements. These areas include, but are not limited to, residential building pads, sidewalks, pavement areas, retaining walls, and/or soundwalls. Prior to development, we should be retained to prepare a design-level geotechnical report.

4.1 PRELIMINARY EARTHWORK CONSIDERATIONS

The relative compaction and optimum moisture content of soil and aggregate base referred to in this report are based on the most recent ASTM D1557 test method. Compacted soil is not acceptable if it is unstable. It should exhibit only minimal flexing or pumping, as observed by our representative.

As used in this report, the term “moisture condition” refers to adjusting the moisture content of the soil by either drying if too wet or adding water if too dry.

We define “structural areas” as any area sensitive to settlement of compacted soil. These areas include, but are not limited to building pads, pools, hardscape and sidewalks, landscape areas, pavement areas, and retaining walls.

4.1.1 General Site Clearing

Areas to be developed should be cleared of surface and subsurface deleterious materials, including buried utility and irrigation lines, pavements, debris, and designated trees, shrubs, and associated roots. Clean and backfill excavations extending below the planned finished site grades with suitable material compacted to the recommendations presented in Section 4.1.4. ENGEO should be retained to observe and test backfilling.

Following clearing, the site should be stripped to remove surface organic materials. Strip organics from the ground surface to a depth of at least 2 to 3 inches below the surface. Remove strippings from the site or, if considered suitable by the landscape architect and owner, use them in landscape fill. It may also be feasible to mulch organics in place, depending on the amount and type of vegetation present at the time of grading, as well as the proposed mulching method. If desired, ENGEO can evaluate site vegetation at the time of grading to assess the feasibility of mulching organics in place.

4.1.2 Near-Surface Loose Deposits Mitigation

We encountered loose sandy deposits and soft silt in the upper 2 to 4 feet of the subsurface, which is considered unsuitable for support of the proposed improvements. On a preliminary basis, we anticipate that overexcavation and recompaction up to 4 feet would be necessary to prepare the site for new improvements. Design-level field exploration should include further evaluation of lateral extent and depth of disturbed soil.

Excavated soil from loose alluvial removals may be reused as engineered fill, provided it meets the guidelines in Sections 4.1.3 and 4.1.4.

4.1.3 Acceptable Fill

On-site soil is suitable as fill material, provided it is processed to remove concentrations of organic material exceeding 3 percent by weight, debris, and particles greater than 6 inches in maximum dimension.

Imported fill material should meet the above requirements and generally have similar geotechnical characteristics to the soil encountered at the site and have similar corrosion potential as the on-site soil. Additional import fill criteria will be provided in the design-level geotechnical report based on laboratory testing of site material.

4.1.4 Fill Placement Specifications

For preliminary purposes, we suggest engineered fill should be placed according to the following fill placement specifications, depending upon location and material.

TABLE 4.1.4-1: Fill Placement Specifications

FILL AREA	TEST PROCEDURE	MOISTURE CONTENT	MINIMUM RELATIVE COMPACTION
General Fill and Soil Trench Backfill	ASTM D1557	At least 3 percentage point over optimum	At least 90 percent
Pavement Subgrade (Upper 6 inches)	ASTM D1557	At least 2 percentage points over optimum	At least 95 percent
Hardscape and Pavement Aggregate Base	ASTM D1557	At least optimum	At least 95 percent
Hot Mix Asphalt	CalTrans	-	At least 95 percent

* Relative compaction - in-place dry density of material expressed as a percentage of the maximum dry density (ASTM D1557).

4.1.5 Differential Fill Thickness

We recommend that the differential fill thickness under any building be maintained to no greater than 10 feet. This should be evaluated further in a design-level study and once the grading plans are available.

4.2 SITE DRAINAGE

The project civil engineer is responsible for designing surface drainage improvements. With regard to geotechnical engineering issues, finish grades should be sloped away from buildings and pavements to the maximum extent practical.

We anticipate development will include landscape areas. Proper subsurface drainage is required to prevent ponding on covered roofs or along walls. The roofs and drainage systems should be designed with an appropriate slope to expediently transfer moisture across and off the roofs.

5.0 PRELIMINARY FOUNDATION RECOMMENDATIONS

For land planning purposes, we recommend the use of a structural mat, such as a post-tensioned (PT) mat foundation, to support the proposed residential structures. Alternatively, structures could be supported on a conventionally reinforced structural mat or footings with concrete slab-on-grade. We provide preliminary recommendations for the PT mat foundations below. Final design parameters will be determined during the design-level study.

5.1 MAT FOUNDATIONS

We recommend that the proposed structures be supported on PT mat foundations bearing on a minimum of 18 inches of engineered fill.

For planning purposes, the structural engineer should consider at least a moderately expansive foundation soil condition for a uniform mat or PT thin mat, along with an estimated differential settlement of up to ¾-inch over a 50 foot distance. The final design, to determine the PT mat section, will be based on actual samples collected and tested in the future design-level report.

PT mats are typically underlain by a moisture reduction system as recommended in Section 5.3. In addition, the building pad subgrade is typically moisture conditioned such that the subgrade soil is at a moisture content at least 3 percentage points above optimum immediately prior to foundation construction. The subgrade should not be allowed to dry prior to concrete placement.

5.2 SHALLOW FOOTINGS WITH SLAB-ON-GRADE

The proposed buildings may be supported on continuous perimeter and isolated footings bearing in competent native soil or engineered fill, in conjunction with slab-on-grade floor. The preliminary foundation design should consider an estimated differential settlement of up to ¾-inch over a 50-foot distance and the following parameters in Table 5.2-1.

TABLE 5.2-1: Minimum Footing Dimensions

FOOTING TYPE	*MINIMUM DEPTH (INCHES)	MINIMUM WIDTH (INCHES)
Continuous	24	12
Isolated (connected by tie-beams)	24	12

*Minimum footing depths shown above are taken from lowest adjacent pad soil grade.

Foundation elements meeting the dimensions above may be designed using a maximum allowable dead-plus-live bearing pressure of 2,000 pounds per square foot (psf) for dead-plus-live loads with maximum localized bearing pressures of 2,500 psf at wall loads. This bearing capacity can be increased by one-third for the short-term effects of wind or seismic loading.

The maximum allowable bearing pressure is a net value; the weight of the footing may be neglected for design purposes. All footings located adjacent to utility trenches should have their bearing surfaces below an imaginary 1:1 (horizontal:vertical) plane projected upward from the bottom edge of the trench to the footing. Footing excavations should be kept moist prior to placement of concrete.

5.2.1 Concrete Floor Slab

For preliminary considerations, concrete floor slabs-on-grade should include a minimum of 5 to 6 inches thick, reinforced with No. 4 steel bars spaced at 18 inches on center each way, over a 6-inch-thick layer of compacted aggregate base, and placed on prepared 18 inches of low-expansive subgrade soil.

5.3 SLAB MOISTURE VAPOR REDUCTION

When buildings are constructed with slabs or mats, water vapor from beneath the slab or mat will migrate through the foundation and into the building. This water vapor can be reduced but not eliminated. Vapor transmission can negatively affect floor coverings and lead to increased moisture within a building. Where water vapor migrating through the slab or mat would be undesirable, we recommend the following measures to reduce water vapor transmission upward through the slab or mat.

1. A vapor retarder membrane should be placed directly beneath the slab or mat. The vapor retarder should be sealed at all seams and pipe penetrations. Vapor retarders should conform to Class A vapor retarder in accordance with ASTM E1745 “Standard Specification for Plastic Water Vapor Retarders used in Contact with Soil or Granular Fill under Concrete Slabs.”
2. Concrete should have a concrete water-cement ratio of no more than 0.5.
3. Inspection and testing should be performed during concrete placement to check that the proper concrete and water-cement ratio are used.
4. Moist curing procedures should be implemented.

5. The foundation subgrade soil should be protected from underseepage by providing impermeable plugs within utility trenches where they cross under the mat.

The structural engineer may consider use of a layer of granular clean sand or pea gravel (less than 5 percent passing the U.S. Standard No. 200 Sieve) placed below the vapor retarder membrane to assist in concrete curing. If a layer of granular material is placed above the vapor retarder membrane, the mat should incorporate a thickened edge. The thickened edge, if used, should at least extend to the bottom of the granular material so that it reduces the chance of water seeping between the mat and the vapor retarding membrane; the thickened edge should be at least 12 inches wide.

5.4 FOUNDATION LATERAL RESISTANCE

Lateral loads may be resisted by friction along the base and by passive pressure along the sides of foundations. The passive pressure is based on an equivalent fluid pressure in pounds per cubic foot (pcf). For preliminary purposes, the following allowable values are used for design for moderate expansive soil conditions.

- Passive Lateral Pressure: 300 pcf
- Coefficient of Friction: 0.35

The above allowable values include a factor of safety of 1.5. Increase the above values by one-third for the short-term effects of wind or seismic loading.

Passive lateral pressure should not be used for footings on or above slopes.

6.0 EXTERIOR FLATWORK

Exterior flatwork includes items such as concrete sidewalks, steps, and outdoor courtyards exposed to foot traffic only. Standard city sidewalks can be considered for the site. For patio and courtyard areas, we recommend a minimum section of 4 inches of concrete over 4 inches of aggregate base could also be considered. The subgrade under flatwork should be processed as engineered fill prior to receiving compacted aggregate base or concrete.

If constructed over expansive soil or to improve slab performance, consideration could be given to thicken flatwork edges to at least 8 inches to help control moisture variations in the subgrade and/or place wire mesh or rebar within the middle third of the slab to help control the width and offset of cracks. Construct control and construction joints in accordance with current Portland Cement Association Guidelines.

7.0 PRELIMINARY POOL CONSIDERATIONS

We understand that preliminary development plans include the construction of a community pool with surrounding hardscape.

7.1 POOL SHELL DESIGN

The pool shell should be well reinforced and designed by a structural engineer. The final pool plans and calculations should be submitted to ENGEO for review when they become available.

Preliminarily, we recommend pool shell walls be designed for an at-rest lateral pressure of 60 pounds per cubic foot and should be reinforced. The pool foundation should be designed to impose an average bearing pressure of, at most, 2,000 pounds per square foot (psf). These parameters are subject to change after the design-level exploration is performed.

The pool excavations should be observed and approved by our field representative. If the pool excavation extends into underlying native soil containing non-uniform or differential conditions, the upper 18 inches of pool excavation subgrade should be subexcavated and backfilled as engineered fill. The subgrade soil at the base of the pool excavations should be kept moist at all times prior to concrete placement. In addition, the subgrade soil located around the pool shell should be kept moist until construction of the pool deck. The pool structure should be provided with a hydrostatic pressure relief valve.

7.2 POOL DECK

For preliminary purposes and assuming a moderate expansive subgrade soil, we recommend the pool deck consist of 6 inches of concrete over 6 inches of compacted aggregate base. The subgrade material under the pool deck should be reworked to a depth of at least 12 inches and compacted in accordance with recommendations provided in the design-level geotechnical report. To improve slab performance, we suggest the pool deck slab is reinforced with rebar or welded wire mesh.

A collection subdrainage system should be considered beneath the pool deck to capture nuisance water and convey it into the area drain system. From a geotechnical standpoint, we recommend the pool deck subgrade be graded to slope away from the pool at a minimum slope of 2 percent to the collection subdrain system.

The finished concrete deck should have a minimum slope of at least 1 to 2 percent away from the pool edge in all directions. Frequent control joints should be incorporated into the pool deck according to ACI guidelines. Pool coping joints should be filled with elastomeric sealant and should be examined regularly to ensure that no openings have developed. Subgrade soil material should not be allowed to become dry prior to completion of landscaping. Minor cracking of concrete deck slabs is common and should be expected in the future.

8.0 PRELIMINARY PAVEMENT DESIGN

8.1 PAVEMENTS

8.1.1 Flexible Pavements

We developed the following pavement sections for streets using traffic indices of 4 to 7, based on an assumed R-value of 5 and Topic 633 of the 6th Edition of the Caltrans Highway Design Manual (including the asphalt factor of safety).

TABLE 8.1.1-1: Preliminary Flexible Pavement Design

TRAFFIC INDEX	ASPHALT CONCRETE (inches)	CLASS 2 AGGREGATE BASE (inches)
4	3	6½
5	3	10
6	3½	13
7	4	15½

Note: AB is Aggregate Base Class 2 Material with minimum R = 78

8.1.2 Rigid Pavements

We developed the following rigid pavement sections for streets or trash enclosure aprons using traffic indices of 6 and 7, based on an assumed R-value of 5 and Topic 607.2 of the Caltrans Highway Design Manual (including the asphalt factor of safety).

TABLE 8.1.2-1: Preliminary Rigid Pavement Design

TRAFFIC INDEX	JOINTED PLAIN CONCRETE PAVEMENT (inches)	CLASS 2 AGGREGATE BASE (inches)
6	6	9
7	6	10

Note: AB is Aggregate Base Class 2 Material with minimum R = 78

8.2 SUBGRADE AND AGGREGATE BASE COMPACTION

Compact finish subgrade and aggregate base in accordance with Section 4.1.4. Aggregate base should meet the requirements for ¾-inch maximum Class 2 Aggregate Base in accordance with Section 26-1.02B of the latest Caltrans Standard Specifications.

8.3 CUTOFF CURBS

Saturated pavement subgrade or aggregate base can cause premature failure or increased maintenance of asphalt concrete pavements. This condition often occurs where landscape areas directly abut and drain toward pavements. If desired to install pavement cutoff barriers, they should be considered where pavement areas lie downslope of any landscape areas that are to be sprinklered or irrigated and should extend to a depth of at least 4 inches below the baserock layer. Cutoff barriers may consist of deepened concrete curbs or deep-root moisture barriers.

If reduced pavement life and greater than normal pavement maintenance are acceptable to the owner, then the cutoff barrier may be eliminated.

9.0 DESIGN-LEVEL GEOTECHNICAL REPORT

This preliminary report presents preliminary geotechnical findings, conclusions, and recommendations intended for preliminary planning purposes only. A design-level geotechnical exploration and assessment should be performed when final development plans are available. We recommend the design-level exploration and reporting include the following scope items.

- Additional field exploration consisting of geotechnical borings
- Laboratory testing

- Design-level assessment of geologic and geotechnical hazards
- Design-level recommendations for building and retaining wall foundation design
- Design-level grading, utility, and paving recommendations

10.0 LIMITATIONS

This preliminary report presents geotechnical recommendations for design of the improvements discussed in Section 1.3 for the Corporate Center Chino project. If changes occur in the nature or design of the project, we should be allowed to review this report and provide additional recommendations, if any. It is the responsibility of the owner to transmit the information and recommendations of this report to the appropriate organizations or people involved in design of the project, including but not limited to developers, owners, buyers, architects, engineers, and designers. The conclusions and recommendations contained in this preliminary report are solely professional opinions and are valid for a period of no more than 2 years from the date of report issuance.

We strive to perform our professional services in accordance with generally accepted principles and practices currently employed in the area; there is no warranty, express or implied. There are risks of earth movement and property damages inherent in building on or with earth materials. We are unable to eliminate all risks; therefore, we are unable to guarantee or warrant the results of our services.

This preliminary report is based upon field and other conditions discovered at the time of report preparation. We developed this report with limited subsurface exploration data. We assumed that our subsurface exploration data are representative of the actual subsurface conditions across the site. Considering possible underground variability of soil and groundwater, additional costs may be required to complete the project. We recommend that the owner establish a contingency fund to cover such costs. If unexpected conditions are encountered, ENGEO must be notified immediately to review these conditions and provide additional and/or modified recommendations, as necessary.

Our services did not include excavation sloping or shoring, soil volume change factors, flood potential, or a geohazard exploration. In addition, our geotechnical exploration did not include work to determine the existence of possible hazardous materials. If any hazardous materials are encountered during construction, the proper regulatory officials must be notified immediately.

This document must not be subject to unauthorized reuse, that is, reusing without written authorization of ENGEO. Such authorization is essential because it requires ENGEO to evaluate the document’s applicability given new circumstances, not the least of which is passage of time.

Actual field or other conditions will necessitate clarifications, adjustments, modifications, or other changes to ENGEO’s documents. Therefore, ENGEO must be engaged to prepare the necessary clarifications, adjustments, modifications, or other changes before construction activities commence or further activity proceeds. If ENGEO’s scope of services does not include on-site construction observation, or if other persons or entities are retained to provide such services, ENGEO cannot be held responsible for any or all claims arising from or resulting from the performance of such services by other persons or entities, and from any or all claims arising from or resulting from clarifications, adjustments, modifications, discrepancies, or other changes necessary to reflect changed field or other conditions.

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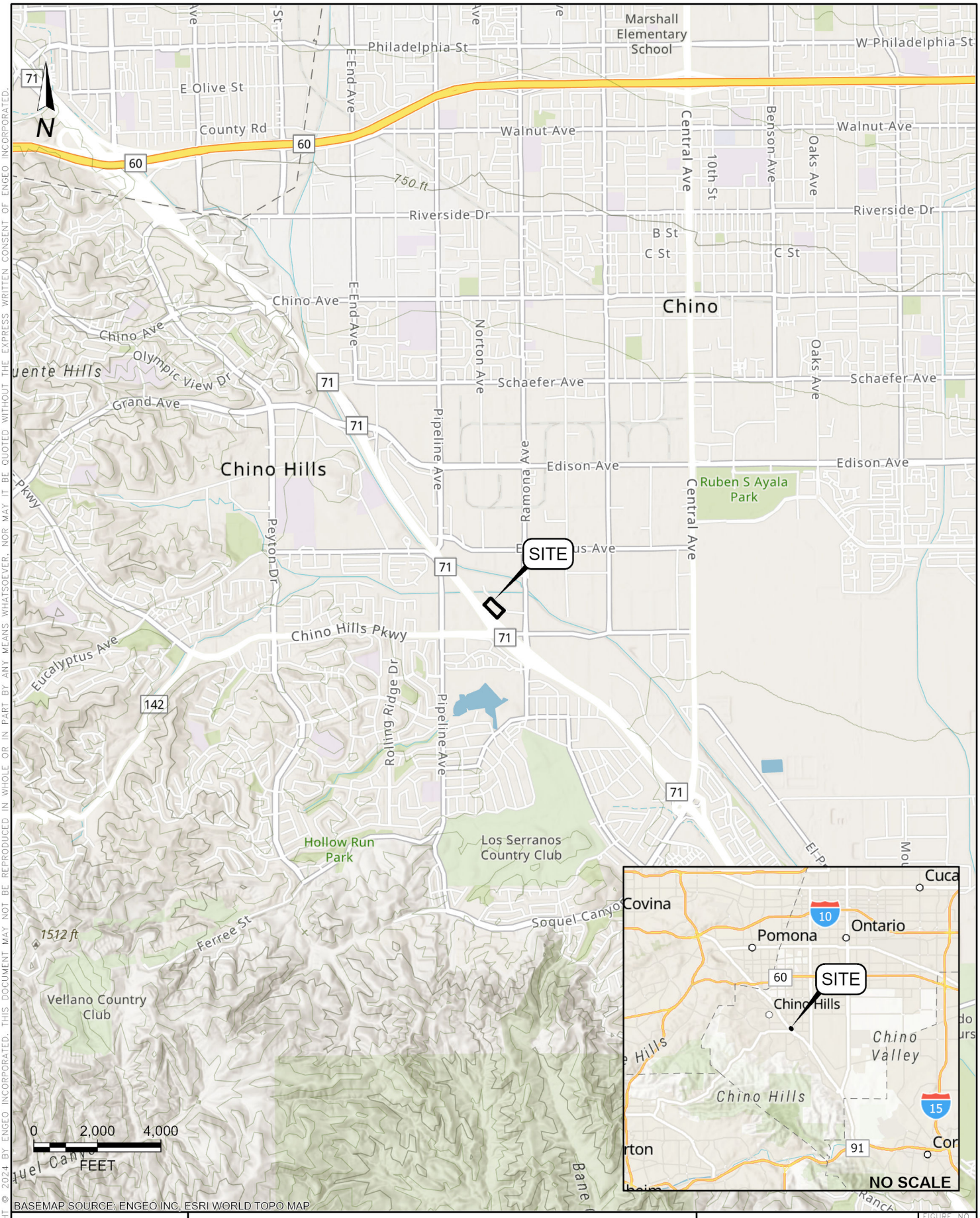
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FIGURES

FIGURE 1: Vicinity Map
FIGURE 2: Site Plan
FIGURE 3: Regional Geologic Map
FIGURE 4: Regional Faulting and Seismicity Map



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VICINITY MAP

CORPORATE CENTER CHINO

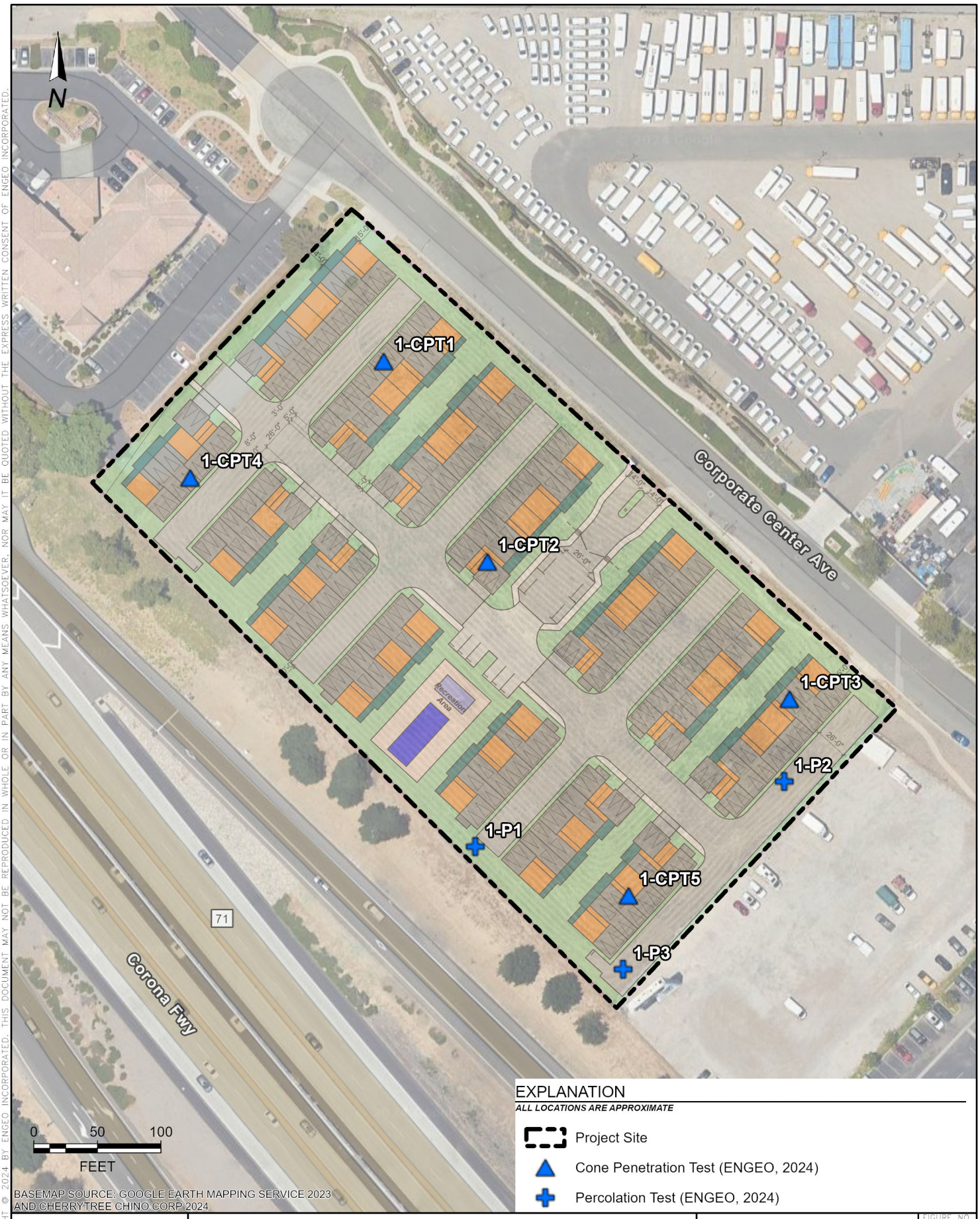
CHINO, CALIFORNIA

PROJECT NO. :	25751.000.001
SCALE:	AS SHOWN
DRAWN BY: NWC	CHECKED BY: SB

FIGURE NO. 1

ORIGINAL FIGURE PRINTED IN COLOR

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LAYOUT: 01. VICINITY 8.5 X 11 PORTRAIT USER: NCLOUGH



BASEMAP SOURCE: GOOGLE EARTH MAPPING SERVICE 2023 AND CHERRYTREE CHINO CORP 2024

EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- Project Site
- Cone Penetration Test (ENGEO, 2024)
- Percolation Test (ENGEO, 2024)

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SITE PLAN

CORPORATE CENTER CHINO

CHINO, CALIFORNIA

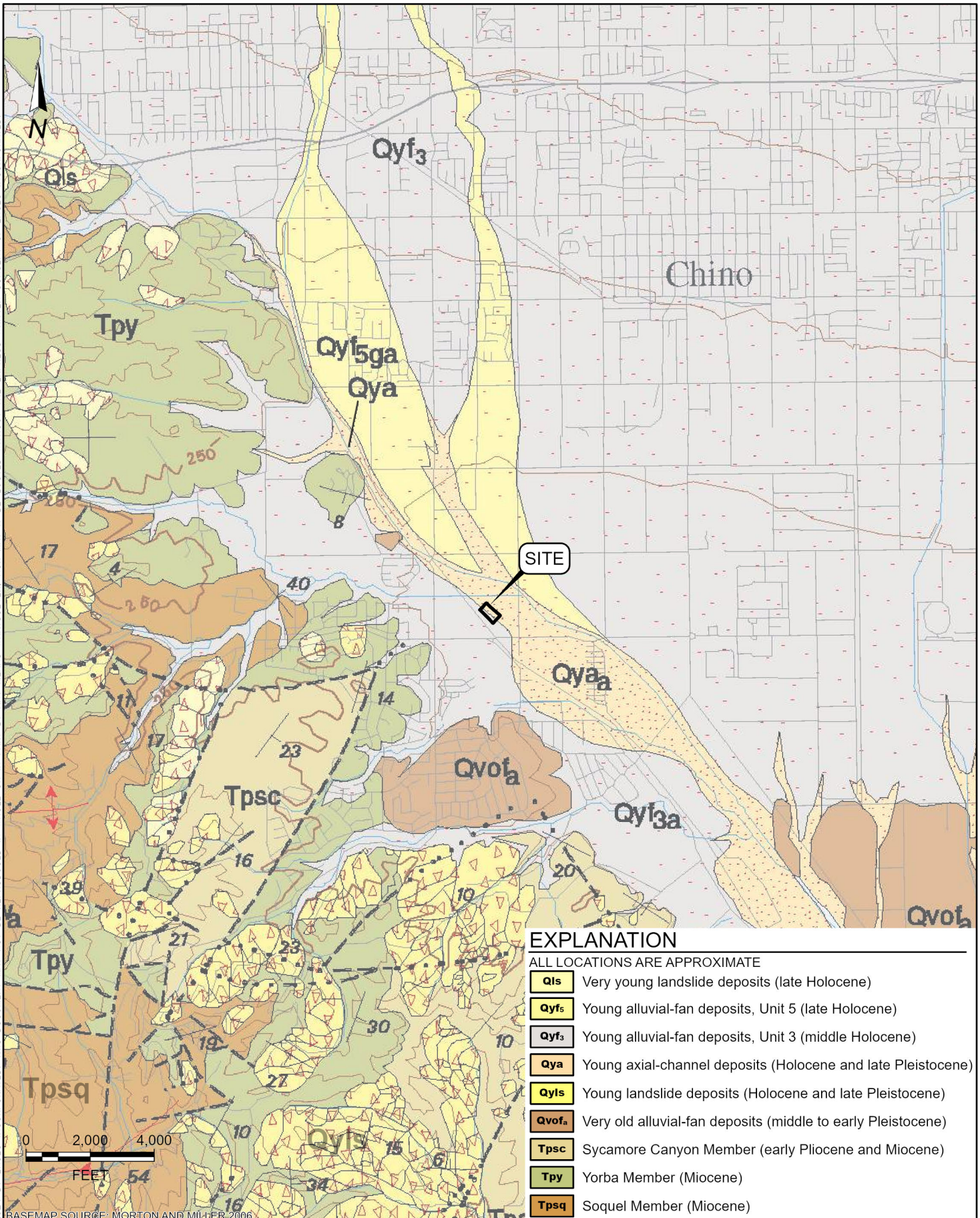
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FIGURE NO. 2

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LAYOUT: 02. SITE PLAN 8.5 X 11 PORTRAIT USER: NCLOUGH

ORIGINAL FIGURE PRINTED IN COLOR



EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

Qls	Very young landslide deposits (late Holocene)
Qyf5	Young alluvial-fan deposits, Unit 5 (late Holocene)
Qyf3	Young alluvial-fan deposits, Unit 3 (middle Holocene)
Qya	Young axial-channel deposits (Holocene and late Pleistocene)
Qyls	Young landslide deposits (Holocene and late Pleistocene)
Qvofa	Very old alluvial-fan deposits (middle to early Pleistocene)
Tpsc	Sycamore Canyon Member (early Pliocene and Miocene)
Tpy	Yorba Member (Miocene)
Tpsq	Soquel Member (Miocene)

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REGIONAL GEOLOGIC MAP

CORPORATE CENTER CHINO

CHINO, CALIFORNIA

PROJECT NO. : 25751.000.001

SCALE: AS SHOWN

DRAWN BY: NWC | CHECKED BY: SB

FIGURE NO. 3

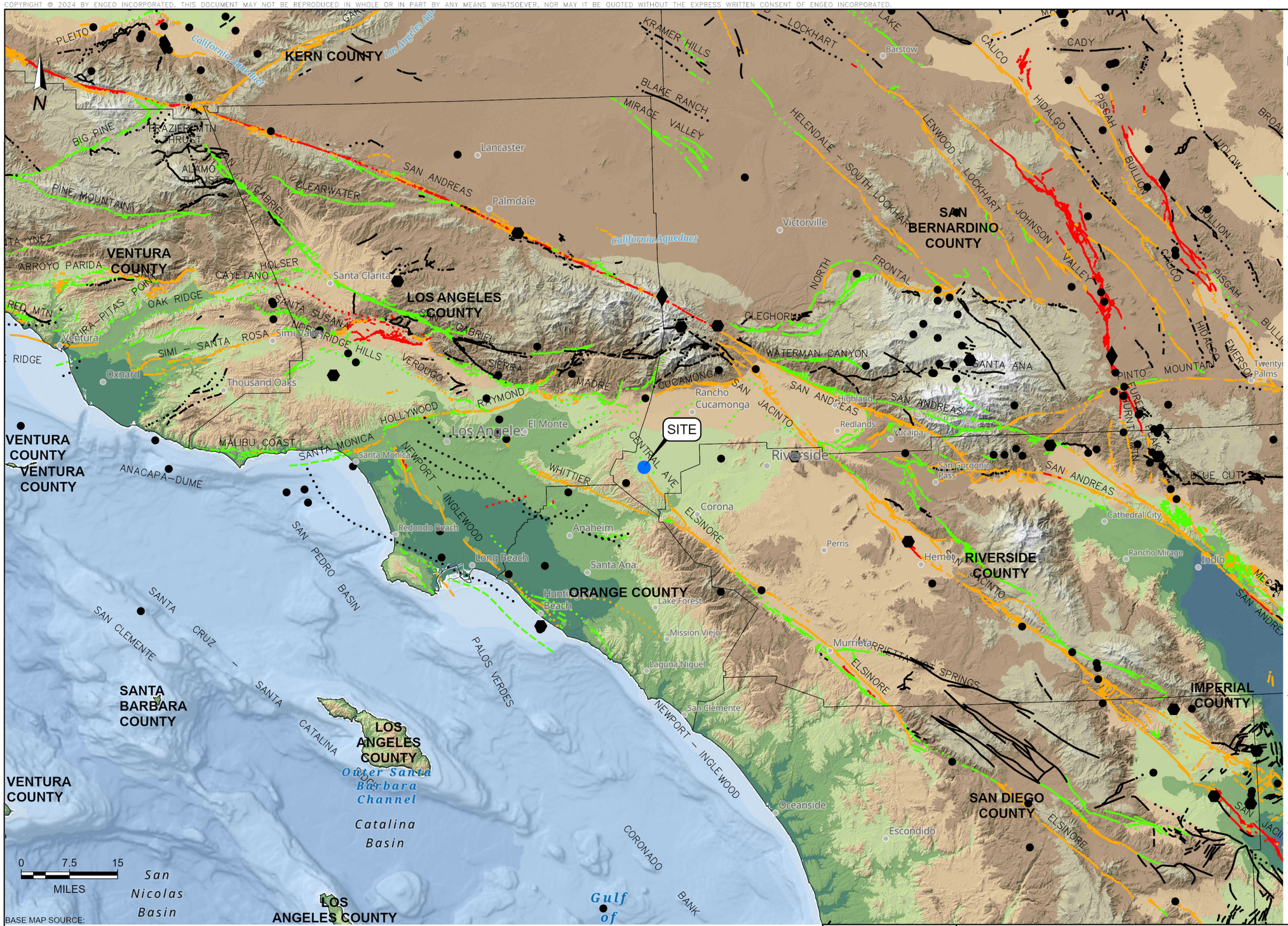
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PATH: G:\DRAFTING\PROJECTS_24000 TO 25999\25751\25751000001\GEOTECHNICAL\PGEX\25751000001_CORPORATECENTERCHINO – GEX.APRX

LAYOUT: 03. GEOLOGIC 8.5 X 11 PORTRAIT USER: NCLOUGH

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EXPLANATION

- Project Site

HISTORIC EARTHQUAKE EPICENTERS

- Magnitude 5-6
- Magnitude 6-7
- Magnitude 7+
- Historic Blind Thrust Fault Zone

QUATERNARY FAULTS 2020

Based on time of most recent surface deformation

- Historical (<150 Years), Well Constrained Location
- Historical (<150 Years), Moderately Constrained Location
- Historical (<150 Years), Inferred Location
- Latest Quaternary (<15,000 Years), Well Constrained Location
- Latest Quaternary (<15,000 Years), Moderately Constrained Location
- Latest Quaternary (<15,000 Years), Inferred Location
- Late Quaternary (<130,000 Years), Moderately Constrained Location
- Late Quaternary (<130,000 Years), Inferred Location
- Middle And Late Quaternary (<750,000 Years), Well Constrained Location
- Middle And Late Quaternary (<750,000 Years), Moderately Constrained Location
- Middle And Late Quaternary (<750,000 Years), Inferred Location
- Undifferentiated Quaternary(<1.6 Million Years), Well Constrained Location
- Undifferentiated Quaternary(<1.6 Million Years), Moderately Constrained Location
- Undifferentiated Quaternary(<1.6 Million Years), Inferred Location
- Class B (Various Age), Well Constrained Location
- Class B (Various Age), Moderately Constrained Location
- Class B (Various Age), Inferred Location

BASE MAP SOURCE:
CSUMB, ESRI, GARMIN, NATURALVUE, ESRI, GEBCO, GARMIN, NATURALVUE, COUNTY OF LOS ANGELES, CALIFORNIA STATE PARKS, ESRI, TOMTOM, GARMIN, SAFEGRAPH, GEOTECHNOLOGIES, INC, METI/NASA, USGS, BUREAU OF LAND MANAGEMENT, EPA, NPS, USDA, USFWS, COUNTY OF LOS ANGELES, CALIFORNIA STATE PARKS, ESRI, TOMTOM, GARMIN, SAFEGRAPH, FAO, METI/NASA, USGS, BUREAU OF LAND MANAGEMENT, EPA, NPS, USFWS
COLOR HILLSHADE IMAGE BASED ON THE NATIONAL ELEVATION DATA SET (NED) AT 30 METER RESOLUTION
U.S.G.S. QUATERNARY FAULT DATABASE, 2020
C.G.S. HISTORIC EARTHQUAKE DATABASE

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REGIONAL FAULTING AND SEISMICITY MAP

CORPORATE CENTER CHINO
CHINO, CALIFORNIA

PROJECT NO. :	25751.000.001
SCALE:	AS SHOWN
DRAWN BY: NWC	CHECKED BY: SB

FIGURE NO. 4

PATH: G:\DRAFTING\MANAGEMENT\GIS\GEX\GEX UPDATE\GIS FIGURE TEMPLATE.APRX
LAYOUT: 04. FAULT&SEISMICITY 11 X 17 LANDSCAPE USER: NCLOUGH

ORIGINAL FIGURE PRINTED IN COLOR



APPENDIX A

BORING LOG KEY
BORING LOGS

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Corporate Center Chino

Soil Boring: 1-P1

Project Address:	Corporate Center Avenue	Date Drilled:	07/11/2024	Logged By:	Jennifer Knipper
Project No:	25751.000.001	Hole Depth:	20'	Reviewed By:	Seema Barua
Lat Lng:	33.984420, -117.709742	Boring Diameter:	8"	Drilling Co.:	2R Drilling
Surface Elevation:	630.5'	Method:	Hollow-Stem Auger	Hammer Type:	Auto 140-lb
Elevation Datum:	WGS84				

Depth (ft)	Elevation (ft)	Sample Graphic	Visual Classification and Remarks	Graphic Log	Water Levels	Uncorrected N-Value	Lab: Atterberg Limits (LL-PL-PI)	Lab: Fines (%)	Lab: Moisture Content (%)	Lab: Dry Density (pcf)	Lab: Shear Strength (psf)	Lab: Compressive Strength (psf)	Lab: Pocket Penetrometer (tsf)	Lab: Torvane (PSF)
0	630		**SILT** (**ML**), yellowish brown, dry to moist, fine-grained sand											
5	625		**SANDY SILT** (**ML**), yellowish brown, stiff, moist			12								
10	620		**SILT WITH SAND** (**ML**), yellowish brown, stiff, moist			14								
15	615		Medium stiff			7								
20	610		**SILTY SAND** (**SM**), light yellowish brown, medium dense, moist, fine- to coarse-grained sand			14								
			End of Boring at 20 feet below ground surface. Groundwater not encountered at the time of drilling.											

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Corporate Center Chino

Soil Boring: 1-P2

Project Address:	Corporate Center Avenue	Date Drilled:	07/11/2024	Logged By:	Jennifer Knipper
Project No:	25751.000.001	Hole Depth:	20'	Reviewed By:	Seema Barua
Lat Lng:	33.984532, -117.708933	Boring Diameter:	8"	Drilling Co.:	2R Drilling
Surface Elevation:	631.3'	Method:	Hollow-Stem Auger	Hammer Type:	Auto 140-lb
Elevation Datum:	WGS84				

Depth (ft)	Elevation (ft)	Sample Graphic	Visual Classification and Remarks	Graphic Log	Water Levels	Uncorrected N-Value	Lab: Atterberg Limits (LL-PL-PI)	Lab: Fines (%)	Lab: Moisture Content (%)	Lab: Dry Density (pcf)	Lab: Shear Strength (psf)	Lab: Compressive Strength (psf)	Lab: Pocket Penetrometer (tsf)	Lab: Torvane (PSF)
0	630		**SILT** (**ML**), yellowish brown, dry to moist, fine grained sand											
			Stiff											
5	625					14								
			SILTY SAND (**SM**), yellowish brown, medium dense, moist, fine-grained sand											
10	620					10								
			SILT WITH SAND (**ML**), yellowish brown, stiff, moist, fine-grained sand											
15	615					10								
			SILTY SAND (**SM**), yellowish brown, medium dense, moist, fine-grained sand											
20						12								

End of Boring at 20 feet below ground surface. Groundwater not encountered at the time of drilling.

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Corporate Center Chino

Soil Boring: 1-P3

Project Address:	Corporate Center Avenue	Date Drilled:	07/11/2024	Logged By:	Jennifer Knipper
Project No:	25751.000.001	Hole Depth:	20'	Reviewed By:	Seema Barua
Lat Lng:	33.984116, -117.709359	Boring Diameter:	8"	Drilling Co.:	2R Drilling
Surface Elevation:	630.8'	Method:	Hollow-Stem Auger	Hammer Type:	Auto 140-lb
Elevation Datum:	WGS84				

Depth (ft)	Elevation (ft)	Sample Graphic	Visual Classification and Remarks	Graphic Log	Water Levels	Uncorrected N-Value	Lab: Atterberg Limits (LL-PL-PI)	Lab: Fines (%)	Lab: Moisture Content (%)	Lab: Dry Density (pcf)	Lab: Shear Strength (psf)	Lab: Compressive Strength (psf)	Lab: Pocket Penetrometer (tsf)	Lab: Torvane (PSF)
0	630		**SILT** (**ML**), yellowish brown, dry to moist											
5	625		**SILTY SAND** (**SM**), yellowish brown, loose, moist, fine-grained sand			9								
			SANDY SILT (**ML**), yellowish brown, medium stiff, moist, fine-grained sand											
10	620					7								
			SILTY SAND (**SM**), yellowish brown, medium dense, moist, fine- to coarse-grained sand											
15	615					16								
			POORLY GRADED SAND (**SP**), light yellowish brown, medium dense, moist, fine- to coarse-grained sand											
20						12								

End of Boring at 20 feet below ground surface. Groundwater not encountered at the time of drilling.



APPENDIX B

CPT DATA (KTE, 2024)

SUMMARY

OF

CONE PENETRATION TEST DATA

Project:

Chino Corporate Center
Corporate Center Avenue & Ramona Avenue
Chino, CA
July 12, 2024

Prepared for:

Ms. Tania Zakaria
ENGEO Incorporated
27742 Hancock Parkway
Valencia, CA 91355
Office (661) 257-4004 / Fax (888) 279-2698

Prepared by:

KEHOE TESTING & ENGINEERING
5415 Industrial Drive
Huntington Beach, CA 92649-1518
Office (714) 901-7270 / Fax (714) 901-7289
www.kehoetesting.com

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1. **INTRODUCTION**
2. **SUMMARY OF FIELD WORK**
3. **FIELD EQUIPMENT & PROCEDURES**
4. **CONE PENETRATION TEST DATA & INTERPRETATION**

APPENDIX

- CPT Plots
- CPT Classification/Soil Behavior Chart
- Summary of Shear Wave Velocities
- CPT Data Files (sent via email)

SUMMARY
OF
CONE PENETRATION TEST DATA

1. INTRODUCTION

This report presents the results of a Cone Penetration Test (CPT) program carried out for the Chino Corporate Center project located at Coporate Center Avenue & Ramona Avenue in Chino, California. The work was performed by Kehoe Testing & Engineering (KTE) on July 12, 2024. The scope of work was performed as directed by ENGEO Incorporated personnel.

2. SUMMARY OF FIELD WORK

The fieldwork consisted of performing CPT soundings at six locations to determine the soil lithology. A summary is provided in **TABLE 2.1**.

LOCATION	DEPTH OF CPT (ft)	COMMENTS/NOTES:
CPT-1	50	
CPT-2	56	Refusal
CPT-2A	91	Refusal
CPT-3	50	
CPT-4	50	
CPT-5	50	

TABLE 2.1 - Summary of CPT Soundings

3. FIELD EQUIPMENT & PROCEDURES

The CPT soundings were carried out by **KTE** using an integrated electronic cone system manufactured by Vertek. The CPT soundings were performed in accordance with ASTM standards (D5778). The cone penetrometers were pushed using a 30-ton CPT rig. The cone used during the program was a 15 cm^2 cone with a cone net area ratio of 0.83. The following parameters were recorded at approximately 2.5 cm depth intervals:

- Cone Resistance (qc)
- Sleeve Friction (fs)
- Dynamic Pore Pressure (u)
- Inclination
- Penetration Speed

At locations CPT-2 & CPT-2A, shear wave measurements were obtained at various depths. The shear wave is generated using an air-actuated hammer, which is located inside the front jack of the CPT rig. The cone has a triaxial geophone, which recorded the shear wave signal generated by the air hammer.

The above parameters were recorded and viewed in real time using a laptop computer. Data is stored at the KTE office for up to 2 years for future analysis and reference. A complete set of baseline readings was taken prior to each sounding to determine temperature shifts and any zero load offsets. Monitoring base line readings ensures that the cone electronics are operating properly.

4. CONE PENETRATION TEST DATA & INTERPRETATION

The Cone Penetration Test data is presented in graphical form in the attached Appendix. These plots were generated using the CPeT-IT program. Penetration depths are referenced to ground surface. The soil behavior type on the CPT plots is derived from the attached CPT SBT plot (Robertson, "Interpretation of Cone Penetration Test…", 2009) and presents major soil lithologic changes. The stratigraphic interpretation is based on relationships between cone resistance (qc), sleeve friction (fs), and penetration pore pressure (u). The friction ratio (Rf), which is sleeve friction divided by cone resistance, is a calculated parameter that is used along with cone resistance to infer soil behavior type. Generally, cohesive soils (clays) have high friction ratios, low cone resistance and generate excess pore water pressures. Cohesionless soils (sands) have lower friction ratios, high cone bearing and generate little (or negative) excess pore water pressures.

The CPT data files have also been provided. These files can be imported in CPeT-IT (software by GeoLogismiki) and other programs to calculate various geotechnical parameters.

It should be noted that it is not always possible to clearly identify a soil type based on qc, fs and u. In these situations, experience, judgement and an assessment of the pore pressure data should be used to infer the soil behavior type.

If you have any questions regarding this information, please do not hesitate to call our office at (714) 901-7270.

Sincerely,

KEHOE TESTING & ENGINEERING



Steven P. Kehoe
President

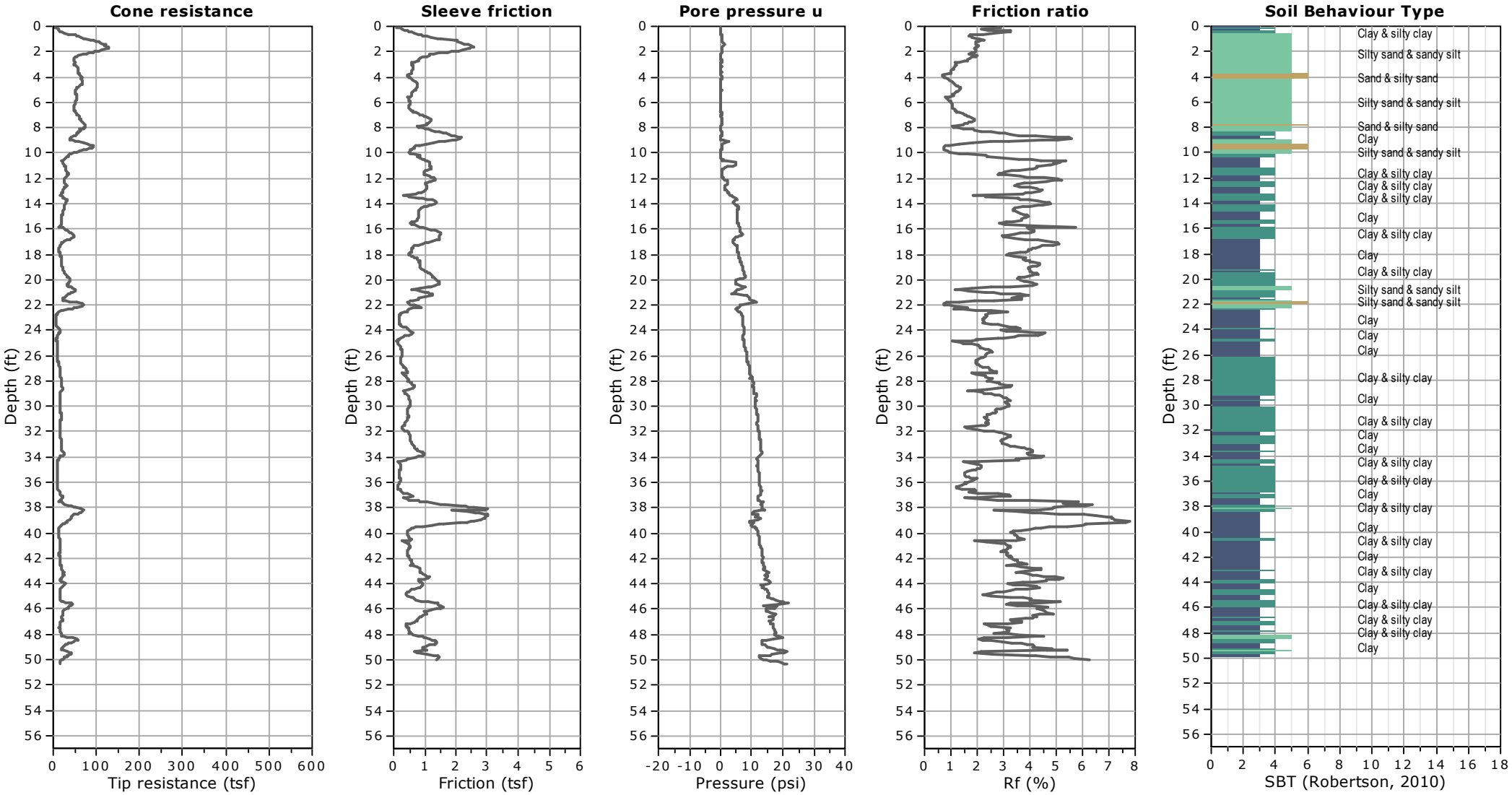
07/17/24-eb-6655

APPENDIX

Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: **ENGEO / Chino Corporate Center**
Location: **Corporate Center Ave & Ramona Ave, Chino, CA**

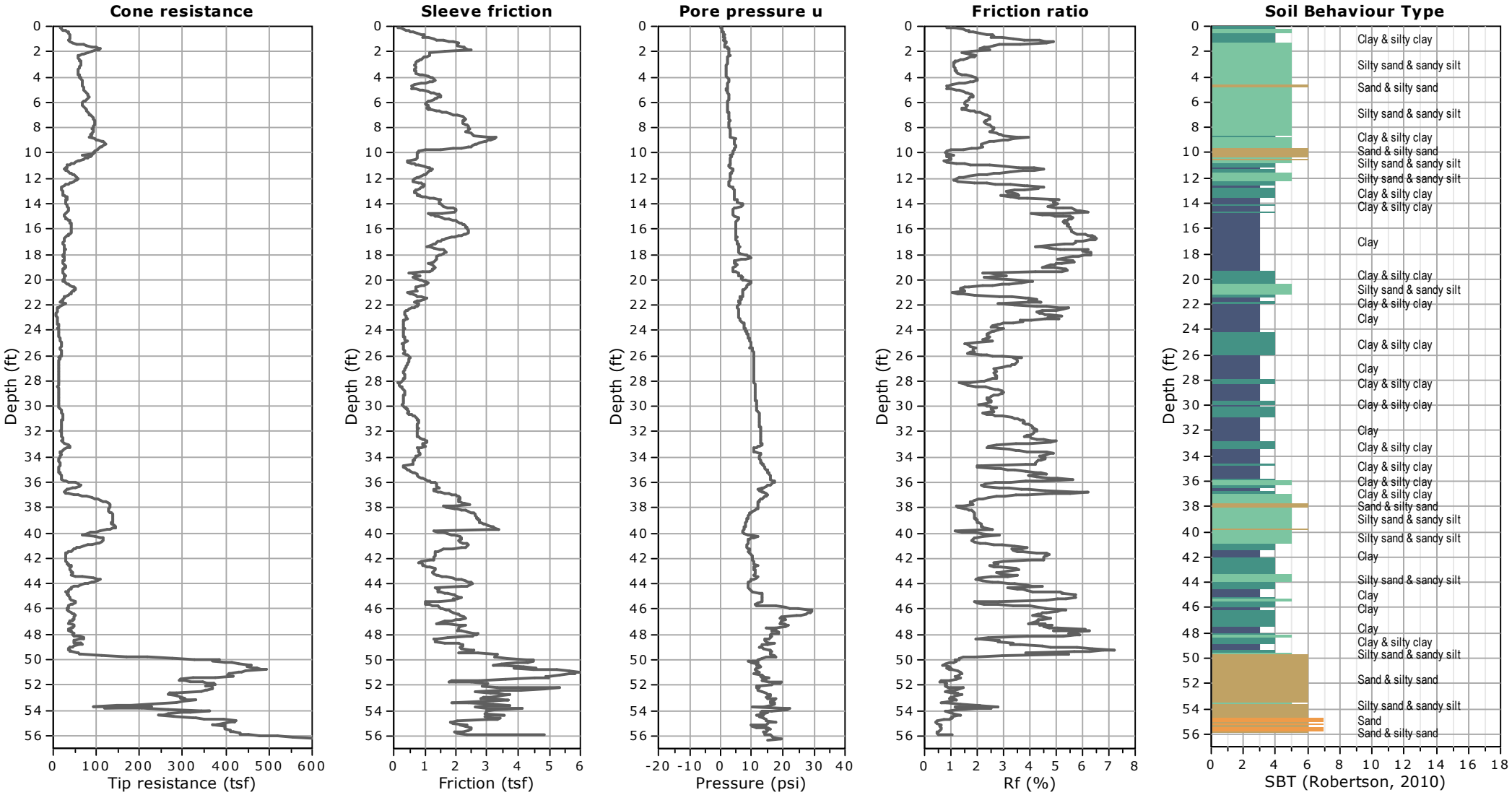
CPT-1
Total depth: 50.37 ft, Date: 7/12/2024



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steve@kehoetesting.com
www.kehoetesting.com

Project: **ENGEO / Chino Corporate Center**
Location: **Corporate Center Ave & Ramona Ave, Chino, CA**

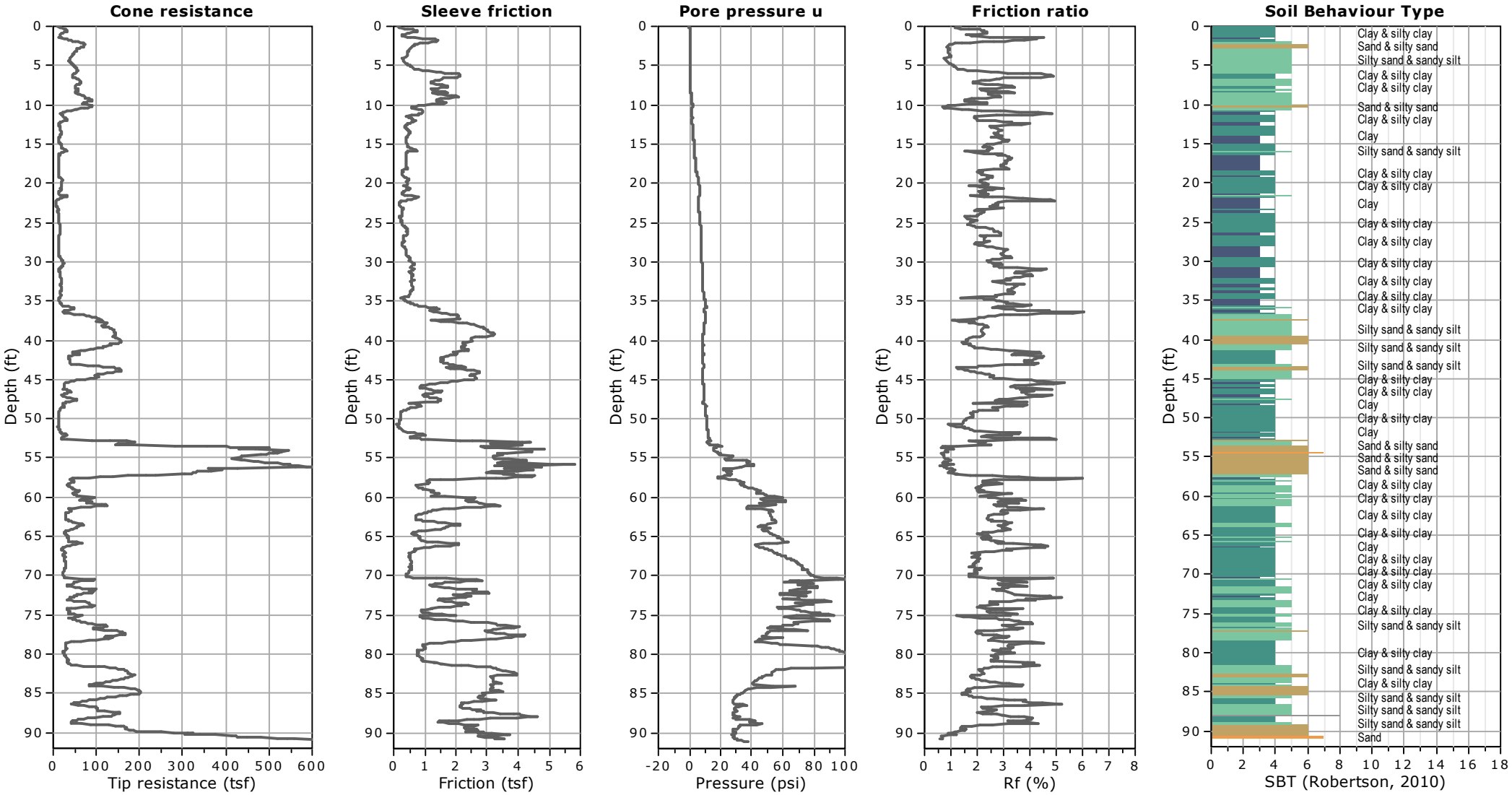
CPT-2
Total depth: 56.32 ft, Date: 7/12/2024



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Project: **ENGEO / Chino Corporate Center**
Location: **Corporate Center Ave & Ramona Ave, Chino, CA**

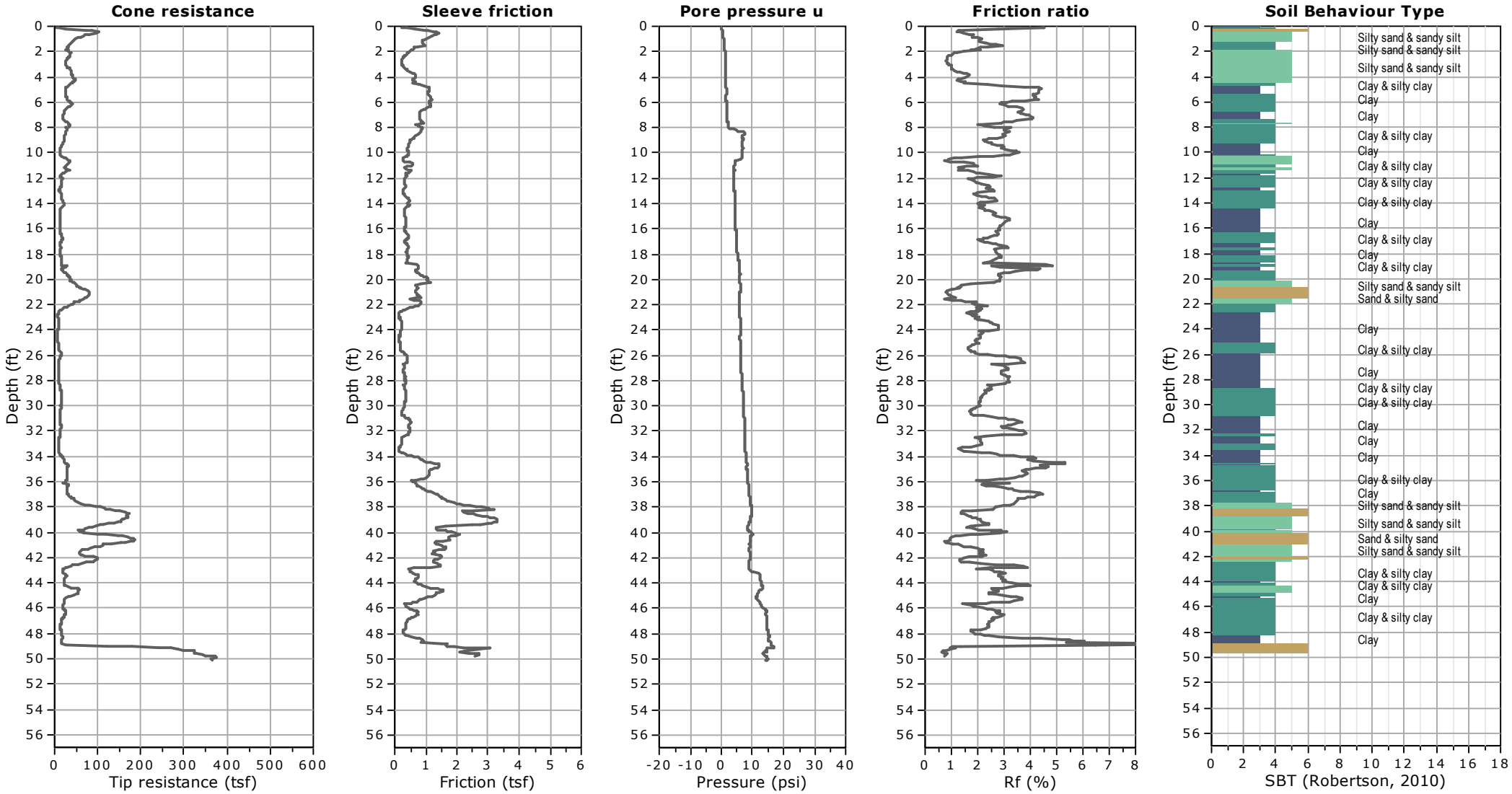
CPT-2A
Total depth: 91.18 ft, Date: 7/12/2024



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Project: **ENGEO / Chino Corporate Center**
Location: **Corporate Center Ave & Ramona Ave, Chino, CA**

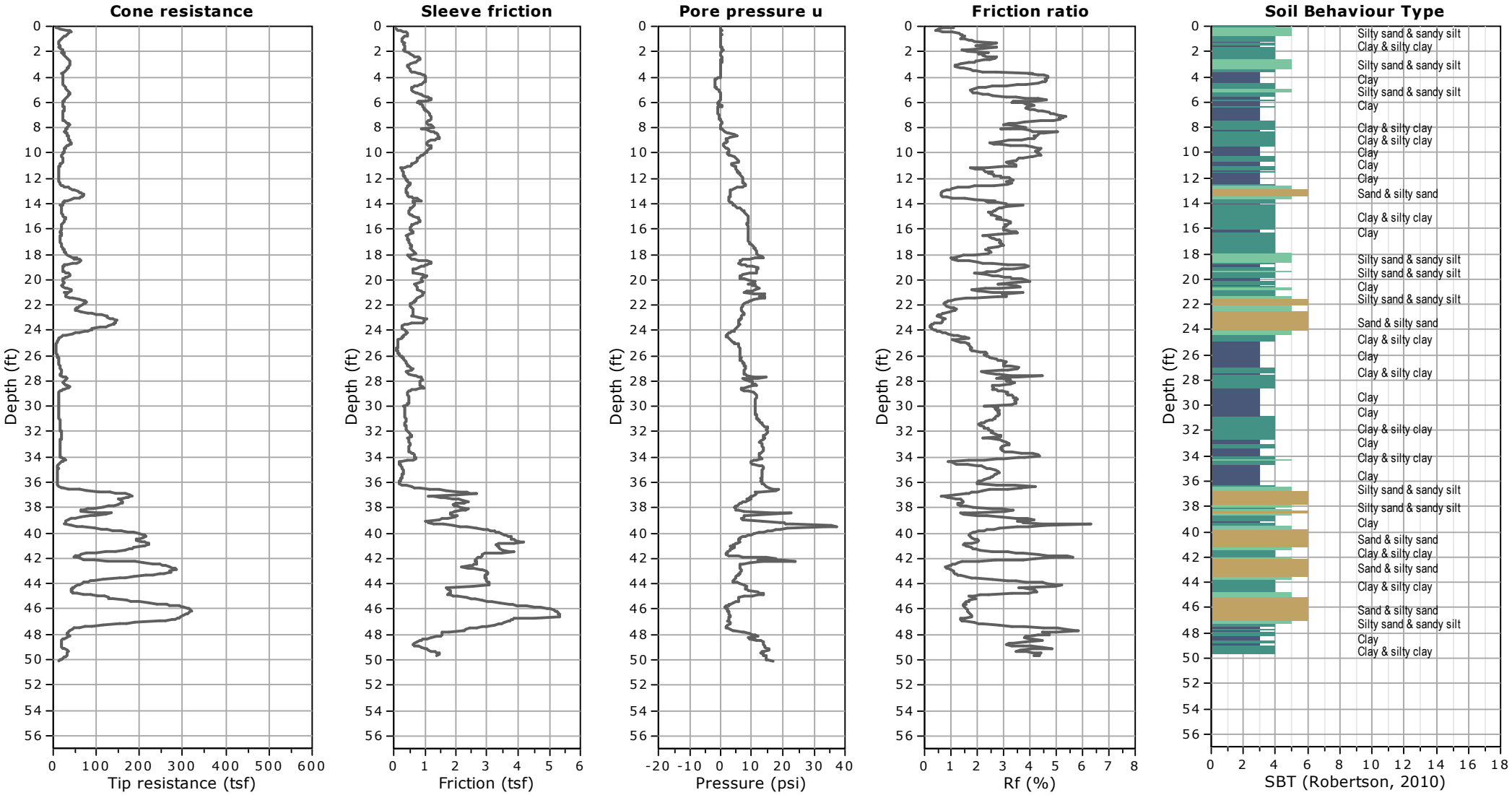
CPT-3
Total depth: 50.15 ft, Date: 7/12/2024



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steve@kehoetesting.com
www.kehoetesting.com

Project: **ENGEO / Chino Corporate Center**
Location: **Corporate Center Ave & Ramona Ave, Chino, CA**

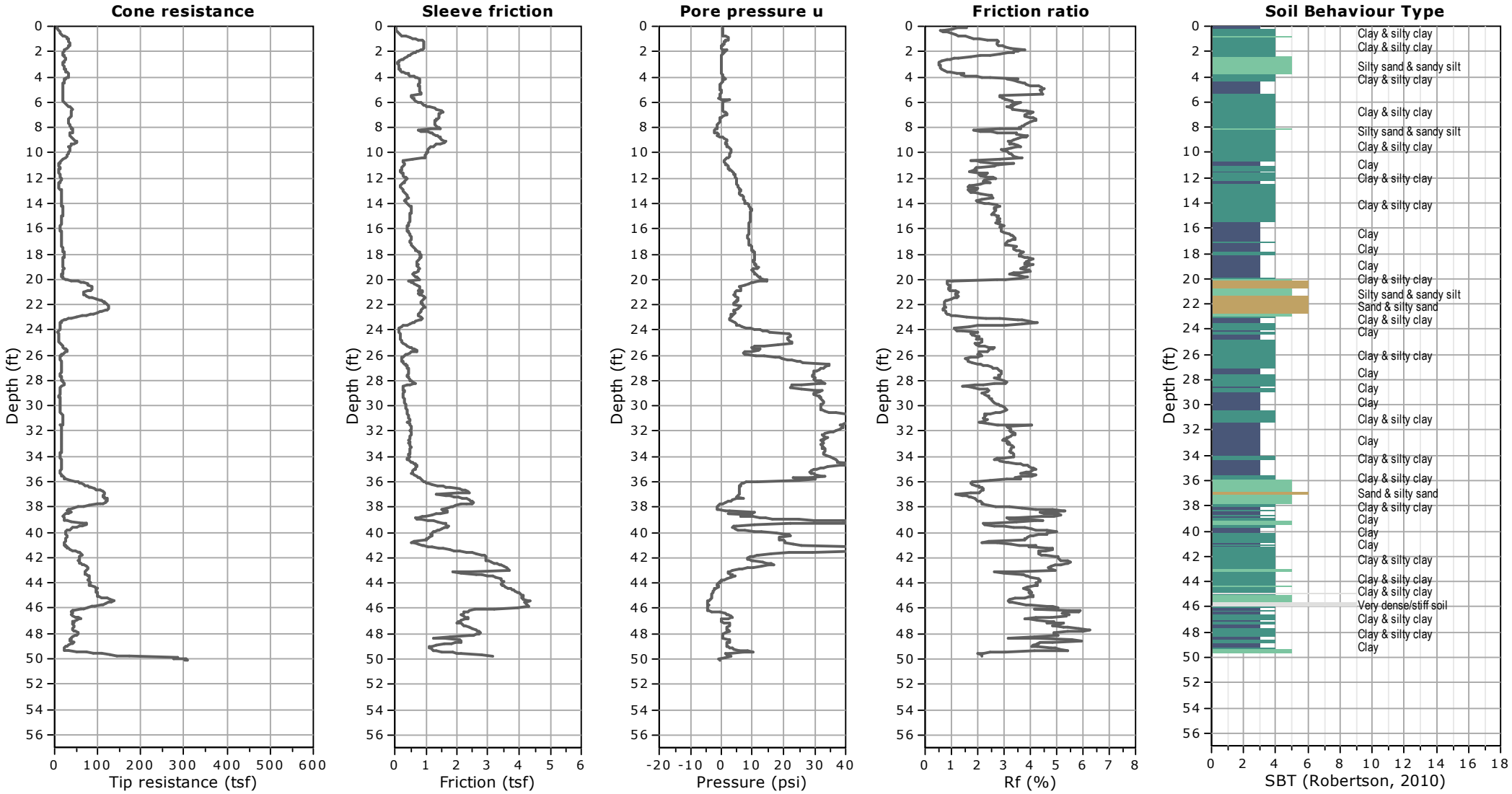
CPT-4
Total depth: 50.10 ft, Date: 7/12/2024



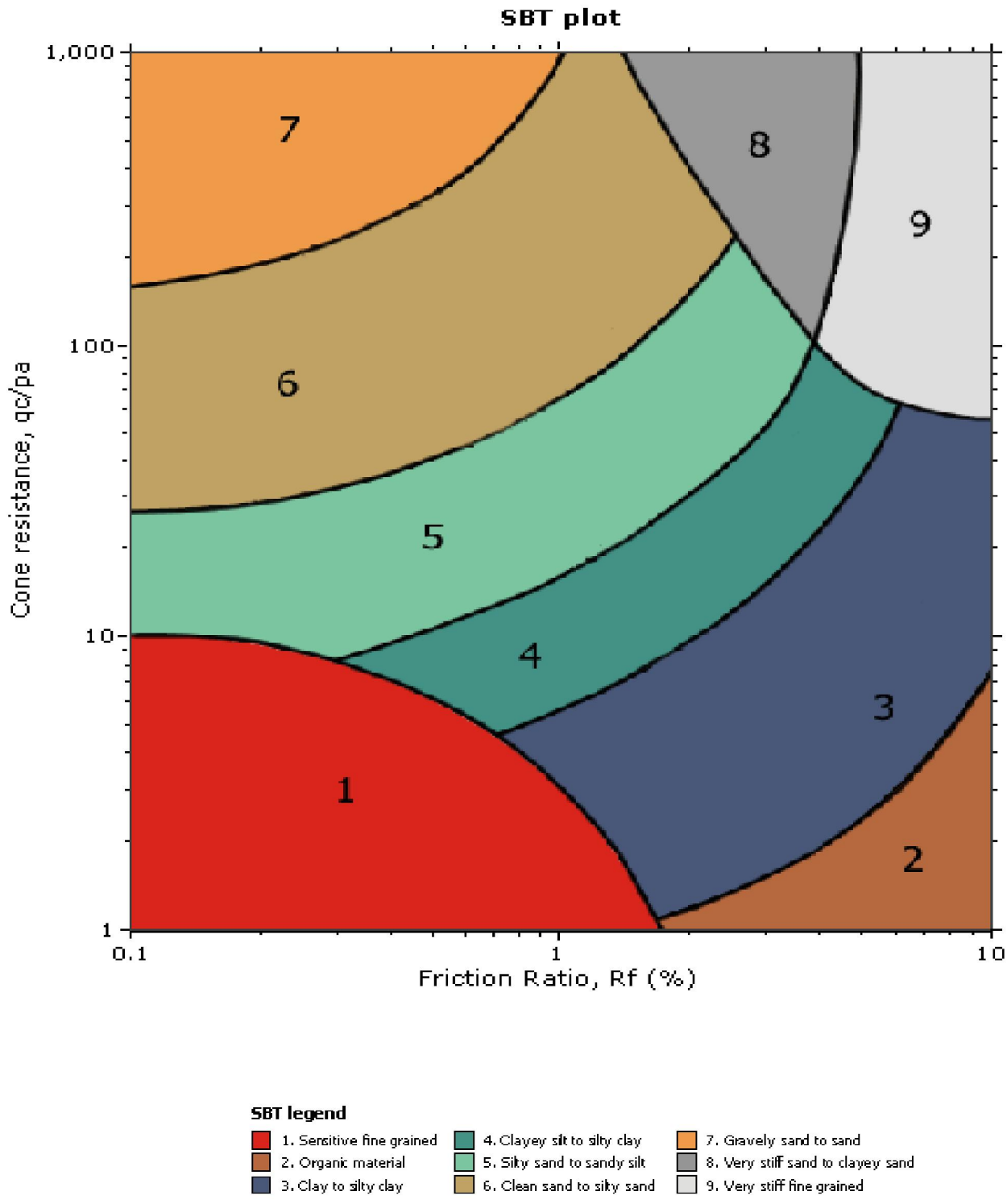
Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: **ENGEO / Chino Corporate Center**
Location: **Corporate Center Ave & Ramona Ave, Chino, CA**

CPT-5
Total depth: 50.15 ft, Date: 7/12/2024



Kehoe Testing and Engineering
714-901-7270
rich@kehoetesting.com
www.kehoetesting.com



ENGEO
Chino Corporate Center
Chino, CA

CPT Shear Wave Measurements

Location	Tip Depth (ft)	Geophone Depth (ft)	Travel Distance (ft)	S-Wave Arrival (msec)	S-Wave Velocity from Surface (ft/sec)	Interval S-Wave Velocity (ft/sec)
CPT-2	4.99	3.99	4.46	5.76	775	
	10.07	9.07	9.29	12.52	742	714
	15.06	14.06	14.20	19.50	728	704
	20.05	19.05	19.15	27.28	702	637
	25.00	24.00	24.08	36.16	666	555
	30.09	29.09	29.16	42.40	688	813
	35.04	34.04	34.10	49.36	691	710
	40.06	39.06	39.11	56.30	695	722
	45.05	44.05	44.10	61.76	714	913
	50.03	49.03	49.07	67.24	730	908
	55.05	54.05	54.09	72.26	749	999
	56.23	55.23	55.27	73.12	756	1371
CPT-2A	60.10	59.10	59.13	76.54	773	
	65.06	64.06	64.09	81.36	788	1029
	70.11	69.11	69.14	86.72	797	942
	75.03	74.03	74.06	90.56	818	1281
	80.09	79.09	79.12	94.84	834	1182
	85.07	84.07	84.09	99.02	849	1191
	90.09	89.09	89.11	103.84	858	1041
	91.08	90.08	90.10	104.68	861	1178

Shear Wave Source Offset - 2 ft

S-Wave Velocity from Surface = Travel Distance/S-Wave Arrival
Interval S-Wave Velocity = (Travel Dist2-Travel Dist1)/(Time2-Time1)



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Appendix D. Phase I Environmental Assessment



CORPORATE CENTER, CHINO
CHINO, CALIFORNIA

PRELIMINARY MODIFIED PHASE I ENVIRONMENTAL SITE ASSESSMENT

DRAFT

SUBMITTED TO
Mr. Clarke Campion
BCT Dev Acquisition Co, LLC
130 Newport Center Dr, Suite 210
Newport Beach, CA 92660

PREPARED BY
ENGEO Incorporated

June 12, 2024

PROJECT NO.
25751.000.001

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ENGEO
Expect Excellence

Project No.
25751.000.001

June 12, 2024

Mr. Clarke Campion
BCT Dev Acquisition Co, LLC
130 Newport Center Dr, Suite 210
Newport Beach, CA 92660

Subject: Corporate Center, Chino
4401 and 4345 Corporate Center Avenue
Chino, California

PRELIMINARY MODIFIED PHASE I ENVIRONMENTAL SITE ASSESSMENT

Dear Mr. Campion:

ENGEO is pleased to present our preliminary modified phase I environmental site assessment of the subject property (Property) located in Chino, California. The attached report includes a description of the site assessment activities, along with ENGEO's findings, opinions, and conclusions regarding the Property.

ENGEO has the specific qualifications based on education, training, and experience to assess the nature, history, and setting of the Property, and has developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312 and the American Society for Testing and Materials (ASTM) Practice E1527-21. We declare that, to the best of our professional knowledge and belief, the responsible charge for this study meets the definition of Environmental Professional as defined in Section 312.10 of 40 CFR Part 312 and ASTM E1527-21.

We are pleased to be of service to you on this project. If you have any questions concerning the contents of our report, please contact us.

Sincerely,

ENGEO Incorporated

Allie Eggert

Nadine Periat, PG

ae/np/ar

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APPENDIX H – Qualifications of Environmental Professional

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EXECUTIVE SUMMARY

ENGEO conducted a preliminary modified phase I environmental site assessment for the subject property located at 4401 and 4345 Corporate Center Avenue in Chino, California (Property). The Property is approximately 4.1 acres in area and is identified by Assessor's Parcel Number (APN) 102-521-129.

The Property consists of vacant, undeveloped land. Review of historical records indicates that the Property has remained undeveloped land since the 1930s and was used for agriculture between the 1930s and 1970s.

This assessment included a review of local, state, tribal, and federal environmental record sources, standard historical sources, aerial photographs, fire insurance maps, and physical setting sources. A reconnaissance of the Property was completed to review site use and current conditions to check for the storage, use, production, or disposal of hazardous or potentially hazardous materials and to conduct written/oral interviews with persons knowledgeable about current and past site use.

The site reconnaissance and records review did not find documentation or physical evidence of soil, soil gas, or groundwater impairments associated with the use or past use of the Property. A review of regulatory databases maintained by county, state, tribal, and federal agencies found no documentation of hazardous materials violations or discharge on the Property and did not identify contaminated facilities within the appropriate ASTM search distances that would reasonably be expected to impact the Property.

Review of historical records indicates that the Property had been used as agricultural land since at least 1939. Since the Property was historically used for agricultural activities, an agrichemical assessment of the surface soil was conducted to evaluate the potential for residual concentrations of organochlorine pesticides (OCPs), arsenic, and lead. In general conformance with Department of Toxic Substances Control (DTSC) guidance[1], a total of eight shallow soil samples were recovered across the Property, which were analyzed for OCPs, lead, and arsenic.

Based on the findings of this assessment, no Recognized Environmental Conditions (RECs), no historical RECs, and no controlled RECs were identified for the Property.

We have performed a preliminary modified phase I environmental site assessment in general conformance with the scope and limitations of ASTM E1527-21 and the standards and practices of the All Appropriate Inquiry – Final Rule (40 Code of Federal Regulations Part 312). Any exception to, or deletions from this practice are described in Sections 7.0 and 8.0 of this report.

It is our opinion that the findings of this study are based on a sufficient level of information obtained during our contracted scope of services to render a conclusion as to whether additional appropriate investigation is required to identify the presence or likely presence of a REC. The following data gaps were identified.

- At the time of report publication, we had not received a response from the San Bernardino County Fire Department.

[1] Department of Toxic Substances Control's (DTSC) Interim Guidance for Sampling Agricultural Properties (Third Revision) dated August 7, 2009

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- At the time of report publication, we had not received environmental site questionnaires pertaining to user-related applicable environmental information regarding the Property.

The data gaps identified during this process do not affect the conclusions as to the presence or lack of presence of RECs at the Property.

This assessment has revealed no evidence of RECs in connection with the Property. We recommend no further environmental studies at this time.

Please note, the findings from this report are valid until May 17, 2025, and updates of portions of the assessment may be necessary after November 17, 2024.

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1.0 INTRODUCTION

1.1 PURPOSE OF PHASE I ENVIRONMENTAL SITE ASSESSMENT

This assessment was performed at the request of BCT Dev Acquisition Co, LLC for the purpose of environmental due diligence during property acquisition. The objective of this preliminary modified phase I environmental site assessment is to identify RECs associated with the Property. As defined in the ASTM Standard Practice E1527-21, an REC is "(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment."

1.2 DETAILED SCOPE OF SERVICES

The scope of services performed included the following.

- A review of previous environmental reports prepared for the Property.
- A review of publicly available and practicably reviewable standard local, state, tribal, and federal environmental record sources.
- A review of publicly available and practicably reviewable standard historical sources, aerial photographs, fire insurance maps and physical setting sources.
- A reconnaissance of the Property to review site use and current conditions. The reconnaissance was conducted to check for the storage, use, production, or disposal of hazardous or potentially hazardous materials.
- Written/oral interviews with owners/occupants and public sector officials.
- An agrichemical impact assessment of soil at the Property.
- Preparation of this report with our findings, opinions, and conclusions.

1.3 SITE LOCATION AND DESCRIPTION

The Property is located at 4401 and 4345 Corporate Center Avenue in Chino, California (Figures 1 and 2). The approximately 4.1-acre Property is identified as APN 102-521-129 (Figure 3) and is currently vacant, undeveloped land. We understand that the proposed development will be a residential development consisting of three-story, multi-family townhome buildings, a community recreation area with a pool, and associated streets, parking areas, and landscaping.

1.4 CURRENT USE OF PROPERTY AND ADJOINING PROPERTIES

The Property is currently zoned within the Auto Mall (AM) category of the Eucalyptus Business Park Specific Plan within the City of Chino.

Based on a review of current records and our site reconnaissance, the adjoining site uses are summarized below.

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TABLE 1.4-1: Adjoining Site Uses

DIRECTION	SITE USE
North	Commercial / Industrial
South	Commercial / Industrial
East	Commercial / Industrial
West	Commercial / Industrial

1.5 SITE AND VICINITY CHARACTERISTICS

According to published topographic maps, site grades at the Property range from approximately Elevation 640 feet (NAVD88) in the northwest to approximately Elevation 635 feet to the southeast. Review of the Geologic Map of the San Bernardino and Santa Ana 30' x 60' (Morton, 2006) found that the Property is underlain by Quaternary young alluvium.

Geocheck – Physical Setting Source Summary of the Environmental Data Resources, Inc. (EDR) report (Appendix A) indicated four Federal United States Geological Survey (USGS) and 42 state wells located within 1 mile of the Property. State Well Number T0607174333-MW-2 is mapped approximately ¼ mile southwest of the Property and 15 groundwater level measurements are reported for this well. Groundwater in the vicinity of the Property was observed between 10.11 and 49.21 feet below the ground surface (bgs).

We reviewed the Department of Water Resources Online Water Data Library for depth to water in the vicinity of the Property. The website identified 15 wells within 1 mile of the Property.

We reviewed EnviroStor, a website maintained by the State of California Department of Toxic Substances Control, and GeoTracker, a website maintained by the State of California Water Resources Control Board, for nearby facilities with records that include depth-to-groundwater measurements. The following information was obtained regarding local groundwater conditions.

TABLE 1.5-1: Local Groundwater Conditions

PROXIMITY TO PROPERTY	REPORTED DEPTH TO GROUNDWATER	REPORTED GROUNDWATER FLOW DIRECTION
0 to ¼ mile southwest	10.11 to 13.73 feet bgs	Southeast
0 to ¼ mile northwest	19.72 to 21.97 feet bgs	East-northeast
¼ to ½ mile southwest	13.05 to 17.06 feet bgs	Not reported
½ to 1 mile northwest	41.19 to 49.21 feet bgs	Not reported

The site-specific depth to groundwater and direction of groundwater flow were not determined as part of this assessment. Fluctuations in groundwater levels may occur seasonally and over a period of years due to variations in precipitation, temperature, irrigation, and other factors.

We reviewed the Department of Conservation, Geologic Energy Management (CalGEM), website and map database to determine if any historic oil and gas wells were located within the Property. One idle oil and gas well, two dry holes, and one core hole were mapped within 1 mile of the Property, over 2,000 feet from the Property boundary.

We reviewed the National Pipeline Mapping System (NPMS) public viewer website for information about petroleum, natural gas, or hazardous liquid storage, processing, or transmission facilities in the vicinity of the Property. No facilities or pipelines were mapped within ¼ mile of the Property.

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1.6 INDOOR AIR QUALITY

An evaluation of indoor air quality, mold, or radon was not included as part of the contracted scope of services. The California Department of Public Health has conducted studies of radon risks throughout the state, sorted by zip code. Results of the studies indicate that 18 tests were conducted within the Property zip code, with none of the tests exceeding the current EPA action level of 4 picocuries per liter (pCi/L)[2].

In accordance with ASTM E2600-15 (Tier 1) (*Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*); there are no potential petroleum hydrocarbon sources for vapor intrusion within ⅒ mile of the Property and two potential volatile organic compound (VOCs) sources within ⅓ mile of the Property:

Eco Cleaners: This site has a documented enviornmental case and is further discussed in Section 3 below. Investigations have been performed on this site, which have generally delineated the extent of tetrachloroethene (PCE) downgradient. Therefore, we do not believe this site poses a vapor encroachment concern to the Property.

J&J Cleaners: This site is approximately 0.23 miles southwest of the site and has no documentation of a release. The site is listed as a small quantity generator, but no chemicals are listed in the available records reviewed. Due to the distance from the site and no reported release, we do not believe this site poses a vapor encroachment concern to the Property.

2.0 PREVIOUS ENVIRONMENTAL REPORTS

Centec Engineering, Inc. Phase I Environmental Site Assessment, 4401 and 4345 Corporate Center Avenue, Chino, California. July 10, 2007.

Centec Engineering, Inc. (Centec) prepared a phase I environmental site assessment for the Property in 2007. The report noted the history of agricultural land use on the Property and determined that no surrounding properties posed a potential environmental concern to the Property. No RECs were identified for the Property in this assessment.

3.0 RECORDS REVIEW

3.1 PROPERTY RECORDS

3.1.1 Title Report/Ownership

The Title Report lists recorded land title detail, ownership fees, leases, land contracts, easements, liens, deficiencies, and other encumbrances attached to or recorded against a subject property. Laws and regulations pertaining to land trusts vary from state to state and the detail of information presented in a Title Report can vary greatly by jurisdiction. As a result, ENGEO utilizes a Title Report, when provided to us, as a supplement to other historical record sources. ENGEO assumes that any environmental lien, activity use limitations (AUL), and/or institutional controls for the Property are noted in the Preliminary Title Report.

[2] California Department of Public Health – Radon Program– (https://www.cdph.ca.gov/Programs/CEH/DRSEM/CDPH%20Document%20Library/EMB/Radon/Radon%20Test%20Results.pdf).

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A Preliminary Title Report for the Property, prepared by First American Title Company and dated April 30, 2024, was provided for our review. The Property title is vested in *Is What Is LLC, a California limited liability company*.

Two easements for pipelines and incidental purposes were listed.

No references to environmental liens, deed restrictions, or other potential environmental issues were noted. This report is included in Appendix B.

3.1.2 Environmental Liens and Activity Use Limitations

The Preliminary Title Report included an environmental lien and activity use limitations (AUL) search. In addition, a questionnaire completed by the Client or authorized representative indicated that they are not aware of any environmental cleanup liens recorded against the Property.

We reviewed two engineering control (EC) and institutional control (IC) registries: EnviroStor, a website maintained by the State of California Department of Toxic Substances Control, and GeoTracker, a website maintained by the State of California Water Resources Control Board, for environmental liens or AULs associated with the Property. No records of environmental liens or AULs were noted.

3.2 HISTORICAL RECORD SOURCES

The purpose of the historical record review is to develop a history of the previous uses or occupancies of the Property and surrounding areas to identify those uses or occupancies that are likely to have led to recognized environmental conditions on the Property.

3.2.1 Historical Topographic Maps/Aerial Photographs/Sanborn Maps

Historical USGS topographic maps and aerial photographs were reviewed to determine if discernible changes pertaining to the Property had been recorded. EDR provided the following maps and photographs, presented in Appendices C and D. A Sanborn fire insurance map search did not identify maps for the Property; the search report is presented in Appendix E.

TABLE 3.2.1-1: Historical Review Summary

HISTORICAL MAP/PHOTOGRAPH	YEARS
Topographic Maps	1902, 1933, 1941, 1942, 1944, 1947, 1949, 1950, 1954, 1967, 1973, 1981, 2012, 2015, 2018, 2021, 2022
Aerial Photographs	1938, 1946, 1953, 1959, 1963, 1966, 1970, 1975, 1985, 1989, 1994, 2002, 2006, 2009, 2012, 2016, 2020
Sanborn Maps	N/A

Beginning in 1902, the Property is depicted in topographic maps southwest of Chino Creek. In the 1933 topographic map, Pipeline Avenue is mapped west of the Property extending north-south, Eucalyptus Avenue is mapped north of the Property extending east-west, Ramona Avenue is mapped east of the Property extending north-south, and a road south of the Property is labeled Carbon Canyon Road to the west and Merrill Avenue to the east. A dam is mapped south of the Property near an unlabeled lake, and the Property is mapped outside the City of Chino, with the City boundary ending approximately 1 mile northeast of the Property.

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The Property appears to be used for agriculture in aerial photographs from 1938 to 1975. Residential and agricultural use is shown in aerial photographs beginning in 1938 and in topographic maps beginning in 1942, with the Los Serranos residential development expanding southwest of the Property in 1966.

The 71 Freeway is labeled in topographic maps beginning in 1942.

In the 1963 aerial photograph, an oval-shaped clearing is visible northeast of the Property, which appears to be a racing track. This area is labeled “Gaging Station” in topographic maps between 1967 and 1981. The 1967 topographic map also depicts a fire station northwest of the Property, a trailer park and Chino Sewage Disposal east of the Property, and a well northeast of the Property.

In 1981, Merrill Avenue is also labeled as the 142 Highway (Chino Hills Parkway) in topographic maps.

New commercial developments appear north, west, and east of the Property in the 1985 aerial photograph, and commercial developments continue to expand between the 1980s and 2000s. Additional residential development is also visible south of the Property beginning in 1989.

The Property appears largely unchanged between 1985 and 2022. The City of Chino Hills is newly labeled northeast of the Property in the 2012 topographic map.

3.2.2 City Directory

City Directories, published since the 18th century for major towns and cities, list the name of the resident or business associated with each address. A city directory search conducted by EDR is located in Appendix F. Listings pertaining to the Property were not found in the city directory search. Other listings in the vicinity of the Property are associated with commercial uses including the adjacent Extended Stay America hotel.

3.3 ENVIRONMENTAL RECORD SOURCES

EDR performed a search of federal, tribal, state, and local databases regarding the Property and nearby properties. Details regarding the databases searched by EDR are provided in Appendix A. A list of the facilities documented by EDR within the approximate minimum search distance of the Property is provided below.

3.3.1 Environmental Records

3.3.1.1 Property

The Property is not listed on Environmental Record source databases.

3.3.1.2 Other Properties

The following databases include facilities listed within the appropriate ASTM search distances of the Property on Environmental Records sources.

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TABLE 3.3.1.2-1: Environmental Database Listings for Nearby Properties

FACILITY	STREET	DATABASES
HHW CHINO HILLS TEMPORARY	14575 PIPELINE AVE	SAN BERN. CO. PERMIT
SB CO. CHINO HILLS YARD	14575 PIPELINE AVENUE	LUST, CPS-SLIC, BROWNFIELDS, SWEEPS UST, CA FID UST, CORTESE, HIST CORTESE, CERS, SAN BERN. CO. PERMIT
CALIBER COLLISION CENTER	14622 RAMONA AVE	RCRA NONGEN / NLR, CERS HAZ WASTE, HWTS, SAN BERN. CO. PERMIT, CERS, RCRA-SQG
VERIZON WIRELESS: LASSEN SB RELO PERM	14664 RAMONA AVE	SAN BERN. CO. PERMIT
CHINO HILLS AUTO CARE, INC.	14688 PIPELINE AVE STE B	CERS HAZ WASTE, SAN BERN. CO. PERMIT, CERS
CHINO HILLS ECONO LUBE N' BRAKES	14688 PIPELINE AVE UNIT A	SAN BERN. CO. PERMIT
CHINO HILLS CAR WASH	14694 PIPELINE AVE	LUST, UST, CORTESE, SAN BERN. CO. PERMIT, CERS, UST FINDER RELEASE, UST FINDER RELEASE
AT&T MOBILITY - CHINO SOUTH (USID12349)	14726 RAMONA AVE STE 101	SAN BERN. CO. PERMIT, CERS
FLATIRON WEST, INC.	14726 RAMONA AVE, SUITE 300	RCRA NONGEN / NLR
CHINO VALLEY FEATHERLITE, CREATIVE BUS SALES INC, SATURN OF CHINO VALLEY	14740 RAMONA AVE	AST, SAN BERN. CO. PERMIT, RCRA NONGEN / NLR, RCRA-SQG, FINDS, ECHO
CBS INTERIM PARKING FACILITY	14740 RAMONA AVENUE	CERS HAZ WASTE, NPDES, SAN BERN. CO. PERMIT, CIWQS, CERS
ROLLING RIDGE RANCH	15111 PIPELINE AVE	LUST, NOTIFY 65
THE HOME DEPOT STORE #2304	3500 MARKET PL	CERS HAZ WASTE, CERS
CHINO DISTRICT FIRE STATION #2	4040 EUCALYPTUS AVE	UST FINDER RELEASE, LUST, HIST CORTESE, NOTIFY 65, CERS, CORTESE
ARCO #1923, G PAT HATTON	4080 CARBON CANYON RD	LUST, CORTESE, UST FINDER RELEASE, LUST, HIST UST, CERS
ARCO #5656	4123 CHINO HILLS PARKWAY	LUST, CHMIRS, CORTESE, HWTS, HAZNET, CERS, UST FINDER RELEASE
J & J CLEANERS	4183 CHINO HILLS PKWY STE E	RCRA-SQG, FINDS
WEINGARTEN REAL ESTATE	4200 CHINO HILLS PARKWAY - BLDG. G	RCRA NONGEN / NLR
CIRCLE K #5728	4200 CHINO HILLS PARKWAY #205	UST FINDER RELEASE, RCRA NONGEN / NLR, UST, UST FINDER

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FACILITY	STREET	DATABASES
VONS STORE NO 2597	4200 CHINO HILLS PKWY	RCRA NONGEN / NLR
POUNDS OFF MEDICAL CENTER	4200 CHINO HILLS PKWY #635	RCRA NONGEN / NLR
MARKETPLACE CLEANERS	4200 CHINO HILLS PKWY 168	RCRA-SQG, FINDS, ECHO, DRYCLEANERS
GOODWILL INDUSTRIES OF SOUTHERN CALIFORNIA, CHINO	4200 CHINO HILLS PKWY 710	RCRA NONGEN / NLR
ECO CLEANERS	4200 CHINO HILLS PKWY STE 168	ENVIROSTOR, LUST, VCP, HAULERS, CERS HAZ WASTE, CERS TANKS, CORTESE, DRYCLEANERS, HWTS, SAN BERN. CO. PERMIT, CERS, DRYCLEANERS, HWTS, HAZNET, RCRA NONGEN / NLR
SMART & FINAL #924	4200 CHINO HILLS PKWY STE 400	RCRA NONGEN / NLR
RITE AID #5578	4200 CHINO HILLS PKWY STE 500	RCRA-SQG, RCRA-LQG, SWRCY, CERS HAZ WASTE, SAN BERN. CO. PERMIT, CERS
DOLLAR TREE #03134	4200 CHINO HILLS PKWY STE 760	RCRA NONGEN / NLR, CERS HAZ WASTE, HWTS, HAZNET, CERS, SAN BERN. CO. PERMIT
GOODWILL STORE #77 CHINO HILLS	4200 CHINO HILLS PKWY STE. 710	RCRA NONGEN / NLR
WINSTON TIRE NO 191	4200 CHINO HILLS PKWY UNIT G	RCRA-SQG, FINDS, ECHO, HWTS, HAZNET
TACO BELL STORE #4342	4200 CHINO HILLS PKWY	SAN BERN. CO. PERMIT
MARKET PLACE CLEANERS	4200 CHINO HILLS PKWY #168	DRYCLEANERS
CARL'S JR #603	4200 CHINO HILLS PKWY 220	SAN BERN. CO. PERMIT
JUST TIRES #4841	4200 CHINO HILLS PKWY STE 280	CERS HAZ WASTE, SAN BERN. CO. PERMIT, CERS, RCRA NONGEN / NLR
FOTOTECH	4200 CHINO HILLS PKWY STE 375	SAN BERN. CO. PERMIT
COSMOPROF BEAUTY #8789	4200 CHINO PKWY STE 835	CERS HAZ WASTE, HWTS, HAZNET, SAN BERN. CO. PERMIT
TECH SYSTEMS GROUP INC	4451 EUCALYPTUS AVE	RCRA NONGEN / NLR, HWTS, HAZNET
CHINO HILLS FORD SALES INC, DEALER DIRECT DETAIL CHINO HILLS FORD, DYNAMIC AUTO IMAGES @ CHINO HILLS FORD	4480 CHINO HILLS PKWY	RCRA-SQG, AST, CERS HAZ WASTE, CERS TANKS, FINDS, ECHO, HWTS, HAZNET, SAN BERN. CO. PERMIT, CERS, RCRA NONGEN / NLR
CORNER BAKERY CAFE	4517 CHINO HILLS PKWY 205	SAN BERN. CO. PERMIT
BIRD FARM ELEMENTARY SCHOOL	POMONA RINCON ROAD/FAIRWAY BOULEVARD	ENVIROSTOR, SCH

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Eco Cleaners (EnviroStor Case ID #60002826) – Eco Cleaners is a drycleaner located approximately 0.15 miles southwest of the Property, which is listed as an open voluntary agreement case on EnviroStor and on multiple other environmental databases. Soil, groundwater, soil gas, indoor and outdoor air sampling have been performed during multiple investigations for this site between 2019 and 2023. VOCs, including PCE, benzene, and 1,3-butadiene were detected in indoor air, outdoor air, and soil gas samples collected within the specific building unit of the drycleaner suite and in the vicinity of the drycleaner suite within the larger Chino Hills Marketplace site. VOC concentrations generally decreased in soil gas samples collected downgradient from the drycleaner suite unit. A removal action work plan for soil vapor extraction was issued for the site in 2023, and work was scheduled to begin in March 2024. PCE was detected in one groundwater sample collected in the immediate vicinity of the drycleaner suite. Because PCE was not detected in downgradient groundwater samples, previous reports concluded that there does not appear to be a groundwater VOC plume originating from the drycleaner and further assessment is not warranted.

S.B. Co. Chino Hills Yard (GeoTracker Case ID #T10000005917) – The former San Bernardino County Chino Hills Yard, currently in use as the Southern California Edison Eastern Transition Station, is located approximately ¼ mile northwest of the Property and is listed on multiple environmental databases. Three underground storage tanks (USTs) were removed from the site in December 1998, and initial site investigations identified impacts of total petroleum hydrocarbon (TPH) and VOCs in soil and groundwater around the former locations of two of the USTs. Initial site investigations also identified VOCs in soil, soil gas, and groundwater in the former location of a parking lot in the western portion of the site. Further site investigations between 2013 and 2018 indicated that VOC concentrations were decreasing with time, and PCE in soil, soil gas, and groundwater appeared to be localized in the northwestern portion of the site. Because PCE was not detected in downgradient groundwater samples, previous investigations concluded that there does not appear to be a groundwater VOC plume originating from the site. A work plan for additional soil and groundwater sampling to further delineate subsurface conditions upgradient (northwest) from the site was prepared in January 2024, and quarterly monitoring of groundwater and soil gas at the site is ongoing.

Circle K #5728 (GeoTracker Case ID #T0607174333) – Circle K has a closed leaking underground storage tank (LUST) case located approximately 0.15 miles southwest of the Property. A leak from a UST of unleaded gasoline was reported in 2004 and site investigations of soil, groundwater, and soil gas were conducted between 2004 and 2010. Soil vapor extraction was performed in 2009 to remediate TPH impacts in soil, and confirmation soil samples were collected in 2010 following remediation activities. Quarterly monitoring of five groundwater monitoring wells on site was conducted between 2006 and 2010. The Santa Ana Regional Water Quality Control Board closed the case with no further action recommended on October 13, 2010, and the groundwater monitoring wells on site were destroyed in January 2011.

Based on the distances to the identified database sites, regional topographic gradient, and the EDR findings, it is unlikely that the above-stated database sites pose an environmental risk to the Property. Properties that are on the “Orphan Summary” list appear to be located beyond the ASTM recommended radius search criteria.

3.4 REGULATORY AGENCY FILES AND RECORDS

The following agencies were contacted pertaining to possible past development and/or activity at the Property.

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TABLE 3.4-1: Regulatory Agency Records

NAME OF AGENCY	RECORDS REVIEWED
City of Chino Building and Planning Departments	We contacted the City of Chino Building and Planning Departments on May 20, 2024, regarding environmental records for the Property. The Building and Planning Departments indicated they have no files pertaining to the Property.
Chino Valley Fire District	We contacted the Chino Valley Fire District on May 20, 2024, regarding environmental records for the Property. The Chino Valley Fire District indicated they have no files pertaining to the Property.
San Bernardino County Department of Environmental Health	We contacted the San Bernardino County Department of Environmental Health on May 20, 2024, regarding environmental records for the Property. The San Bernardino County Department of Environmental Health indicated they have no files pertaining to the Property.
San Bernardino County Fire Department	We contacted the San Bernardino County Fire Department on May 20, 2024, regarding environmental records for the Property. At the time of report publication, we had not received a response from the San Bernardino County Fire Department.
San Bernardino County Assessor's Office	We reviewed online parcel maps provided by the San Bernardino County Assessor's Office. The property boundary and APNs provided in the EDR radius map report are consistent with the online parcel maps.
California State Water Resources Control Board	We reviewed GeoTracker, the website maintained by the State Water Resources Control Board, for files pertaining to the Property. No listings were found for the Property.
Department of Toxic Substances Control (DTSC)	We reviewed EnviroStor, the website maintained by DTSC, for files pertaining to the Property. No listings were found for the Property.

4.0 SITE RECONNAISSANCE

4.1 METHODOLOGY

We conducted a reconnaissance of the Property on May 30, 2024. The reconnaissance was performed by Miles Hawkins, a Staff Engineer of ENGEO. The Property was viewed for hazardous materials storage, superficial staining or discoloration, debris, stressed vegetation, or other conditions that may be indicative of potential sources of soil or groundwater contamination. The Property was also checked for evidence of fill/ventilation pipes, ground subsidence, or other evidence of existing or pre-existing underground storage tanks. Photographs taken during the site reconnaissance are presented in Figure 4.

4.2 GENERAL SITE SETTING

The Property is a vacant plot of land containing vegetation. A portion of a sidewalk is present along the northeastern boundary of the Property. Multiple temporary signs were noted within the Property; no other structures of any kind were noted. An access road is located within the northwestern boundary of the Property, connecting to the larger public road adjacent to the northeastern boundary of the Property.

The Property is bounded by a hotel to the northwest, a highway to the southwest, and auto dealerships to the northeast and southeast.

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4.3 SITE OBSERVATIONS

The following table summarizes our observations during the reconnaissance.

TABLE 4.3-1: Site Observations

FEATURE TYPE	OBSERVATIONS
Structures	No structures were observed during the site reconnaissance.
Hazardous Substances and Petroleum Products in Connection with Identified Uses	No hazardous substances or petroleum products were observed within the Property during the site reconnaissance.
Storage Tanks (underground and above-ground)	No above-ground storage tanks or evidence of existing underground storage tanks were observed during the site reconnaissance.
Roads	A small access road is located along the northwestern boundary of the Property. A larger road is located adjacent to the northeastern boundary of the Property. A sidewalk is also located within the northeastern boundary of the Property.
Strong, Pungent, or Noxious Odors and Their Sources	No odors indicative of hazardous materials or petroleum material impacts were noted at the time of the reconnaissance.
Standing Surface Water and Pools or Sumps Containing Liquids Likely to be Hazardous Substances or Petroleum Products	No pools of potentially hazardous liquid were observed within the Property at the time of our reconnaissance.
Drums, Totes, and Intermediate Bulk Containers	No drums were observed on the Property at the time of the reconnaissance.
Polychlorinated Biphenyls (PCBs) Containing Equipment	No potential PCB-containing equipment, including transformers, were observed within the Property during our site reconnaissance.
Hazardous Substances and Petroleum Product Containers	No hazardous substance or petroleum product containers were observed on the Property at the time of our reconnaissance.
Drains and Sumps	No drains or sumps were observed within the Property at the time of our reconnaissance.
Pits, Ponds, and Lagoons	No pits, ponds, or lagoons were observed within the Property at the time of our reconnaissance.
Stained Soil/Pavement	No stained soil or pavement was observed within the Property at the time of our reconnaissance.
Stressed Vegetation	No signs of stressed vegetation were observed on the Property at the time of our reconnaissance.
Solid Waste/Debris	No disposal of solid waste was observed at the Property. Small amounts of litter were noted throughout the site.
Stockpiles/Fill Material	No stockpiles or fill material was observed on the Property during the reconnaissance.
Wastewater	No wastewater conveyance systems were observed at the Property during the reconnaissance. The Property is located adjacent to a road that appears to contain standard utilities, including a stormwater line.
Wells	No wells were found within the Property during our site reconnaissance. The Property is located adjacent to a road that appears to contain standard utilities, including a water line.
Septic Systems	No septic systems were found within the Property during our site reconnaissance. The Property is located adjacent to a road that appears to contain standard utilities, including a sewer line.

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4.4 ASBESTOS, LEAD, AND PCB-CONTAINING MATERIALS

An asbestos, lead, and PCB-containing building material survey was not conducted as part of this assessment. No structures are currently located on the Property.

5.0 INTERVIEWS

At the time of report publication, we had not received environmental site questionnaires pertaining to user-related applicable environmental information regarding the Property.

6.0 AGRICHEMICAL SOIL ASSESSMENT

Review of historical records indicates that the Property has been used as agricultural land since at least the 1930s. Due to historical agricultural activities, an assessment of the surface soil was conducted to evaluate the potential for residual concentrations of OCPs, arsenic, and lead.

6.1 SOIL SAMPLING

Soil samples were collected on May 30, 2024, from eight locations across the Property (Figure 2). Soil samples were collected from approximately 0 to 6 inches below the ground surface. The soil samples were collected using 4-ounce, pre-cleaned glass jars provided by the laboratory. Upon collection of samples, a label was placed on the sample, including a unique identification, location, and time/date collected. The soil samples were submitted under documented chain-of-custody to Enthalpy Analytical.

Laboratory analysis of the agrichemical soil samples included the following target analytes.

- OCPs by United States Environmental Protection Agency (US EPA) Test Method 8081 – Two 4-point composite samples analyzed
- Arsenic by US EPA Test Method 6020 – Eight discrete samples analyzed
- Lead by US EPA Test Method 6020 – Eight discrete samples analyzed

6.1 ANALYTICAL RESULTS

We compared laboratory results to current DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3 Screening Levels (DTSC-SLs, June 2020, revised May 2022) considering a residential land use scenario. Though screening levels are tools for screening purposes and are not a statutory, regulatory agencies can choose to apply screening levels as action levels for a site.

Arsenic was detected in each sample analyzed, with results ranging from 4.1 mg/kg to 5.5 mg/kg. All samples exceeded the residential screening levels for arsenic; however, the results were generally within background concentrations of arsenic in Southern California, indicating acceptable estimated risk, as discussed in HHRA Note Number 11.

Lead was detected in each sample analyzed, with results ranging from 6.7 mg/kg to 54 mg/kg. No detections exceeded residential screening criteria.

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Two OCPs, 4,4'-DDE and 4,4'-DDT, were detected in one of two composite samples analyzed. No detections exceeded residential screening criteria.

A copy of the laboratory report is presented in Appendix G.

7.0 FINDINGS AND OPINIONS

This assessment included a review of local, state, tribal, and federal environmental record sources, standard historical sources, aerial photographs, fire insurance maps and physical setting sources. A reconnaissance of the Property was completed to review site use and current conditions to check for the storage, use, production, or disposal of hazardous or potentially hazardous materials and to conduct written/oral interviews with persons knowledgeable about current and past site use.

The site reconnaissance and records review did not find documentation or physical evidence of soil, soil gas, or groundwater impairments associated with the use or past use of the Property. A review of regulatory databases maintained by county, state, tribal, and federal agencies found no documentation of hazardous materials violations or discharge on the Property and did not identify contaminated facilities within the appropriate ASTM search distances that would reasonably be expected to impact the Property.

Based on the findings of this assessment, no RECs, no historical RECs, and no controlled RECs were identified for the Property.

7.1 SIGNIFICANT DATA GAPS

It is our opinion that the findings of this study are based on a sufficient level of information obtained during our contracted scope of services to render a conclusion as to whether additional appropriate investigation is required to identify the presence or likely presence of a REC. The following data gaps were identified.

- At the time of report publication, we had not received a response from the San Bernardino County Fire Department.
- At the time of report publication, we had not received environmental site questionnaires pertaining to user-related applicable environmental information regarding the Property.

The data gaps identified during this process do not affect the conclusions as to the presence or lack of presence of RECs at the Property.

7.2 SIGNIFICANT ASSUMPTIONS OR DEVIATIONS FROM ASTM STANDARD PRACTICE

There were no significant deviations from ASTM Standard Practice E1527-21 in the preparation of this report.

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8.0 CONCLUSIONS

It is our opinion that the findings of this study are based on a sufficient level of information obtained during our contracted scope of services to render a conclusion as to whether additional appropriate investigation is required to identify the presence or likely presence of a REC.
We have performed a preliminary modified phase I environmental site assessment in general conformance with the scope and limitations of ASTM E1527-21 and the standards and practices of the All Appropriate Inquiry – Final Rule (40 Code of Federal Regulations Part 312) of the Property. Any exception to, or deletions from this practice are described in Section 9.1 of the report.

This assessment has revealed no evidence of RECs in connection with the Property. We recommend no further environmental studies at this time.

9.0 LIMITATIONS

9.1 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT

The professional staff at ENGEO strives to perform its services in a proper and professional manner with reasonable care and competence but is not infallible. The recommendations and conclusions presented in this report were based on the findings of our study, which were developed solely from the contracted services. The findings of the report are based in part on contracted database research, out-of-house reports, and personal communications. The opinions formed by ENGEO are based on the assumed accuracy of the relied upon data in conjunction with our relevant professional experience related to such data interpretation. We assume no liability for the validity of the materials relied upon in the preparation of this report.

This document must not be subject to unauthorized reuse; that is, reuse without written authorization of ENGEO. Such authorization is essential because it requires ENGEO to evaluate the document's applicability given new circumstances, not the least of which is passage of time. The findings from a phase I environmental site assessment are valid for 1 year after from the earliest date of the following components: records review, site reconnaissance, interviews, declaration by environmental professional. Updates of portions of the assessment may be necessary after a period of 180 days of the earliest date of the four components.

A more extensive assessment that would include a subsurface exploration with laboratory testing of soil, soil gas, and groundwater samples could provide more definitive information concerning site-specific conditions. If additional assessment activities are considered for the Property and if other entities are retained to provide such services, ENGEO cannot be held responsible for any and all claims arising from or resulting from the performance of such services by other persons or entities. ENGEO can also not be held responsible from any and all claims arising or resulting from clarifications, adjustments, modifications, discrepancies, or other changes necessary to reflect changed field or other conditions.

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9.2 SPECIAL TERMS AND CONDITIONS

We have prepared this report for the exclusive use of our client, BCT Dev Acquisition Co, LLC. It is recognized and agreed that ENGEO has assumed responsibility only for undertaking the study for the Client. The responsibility for disclosures or reports to a third party and for remedial or mitigative action shall be solely that of the Client.

This preliminary modified phase I environmental site assessment is not intended to represent a complete soil, soil gas, or groundwater characterization, nor define the depth or extent of soil, soil gas, or groundwater contamination. It is intended to provide an evaluation of potential environmental concerns associated with the use of the Property. Laboratory testing of soil gas or groundwater samples was not within the scope of the contracted services. The assessment did not include an asbestos survey, an evaluation of lead-based paint, an inspection of light ballasts for PCBs, or a mold survey. A radon evaluation was not performed.

This report is based upon field and other conditions discovered at the time of preparation of ENGEO's assessment. Visual observations referenced in this report are intended only to represent conditions at the time of the reconnaissance. We would not be aware of site contamination, such as dumping and/or accidental spillage, that occurred subsequent to the reconnaissance conducted by ENGEO personnel.

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SELECTED REFERENCES

California Department of Water Resources (http://www.water.ca.gov/waterdatalibrary/)

California Department of Public Health – Radon Program– (https://www.cdph.ca.gov/Programs/CEH/DRSEM/CDPH%20Document%20Library/EMB/Radon/Radon%20Test%20Results.pdf).

California Geologic Energy Management Division (CalGEM) (https://www.conservation.ca.gov/calgem)

CalGEM Well Finder (https://maps.conservation.ca.gov/doggr/wellfinder/#openModal/-118.94276/37.12009/6)

Centec Engineering, Inc., 2007. Phase I Environmental Site Assessment, 4401 and 4345 Corporate Center Avenue, Chino, California. July 10, 2007.

Morton, D.M., and Miller, F.K., 2006. Geologic map of the San Bernardino and Santa Ana 30' x 60' quadrangles, California. U.S. Geological Survey. 2006.

Google Maps (http://maps.google.com)

National Pipeline Mapping System (NPMS) public viewer website https://pvnpms.phmsa.dot.gov/PublicViewer/

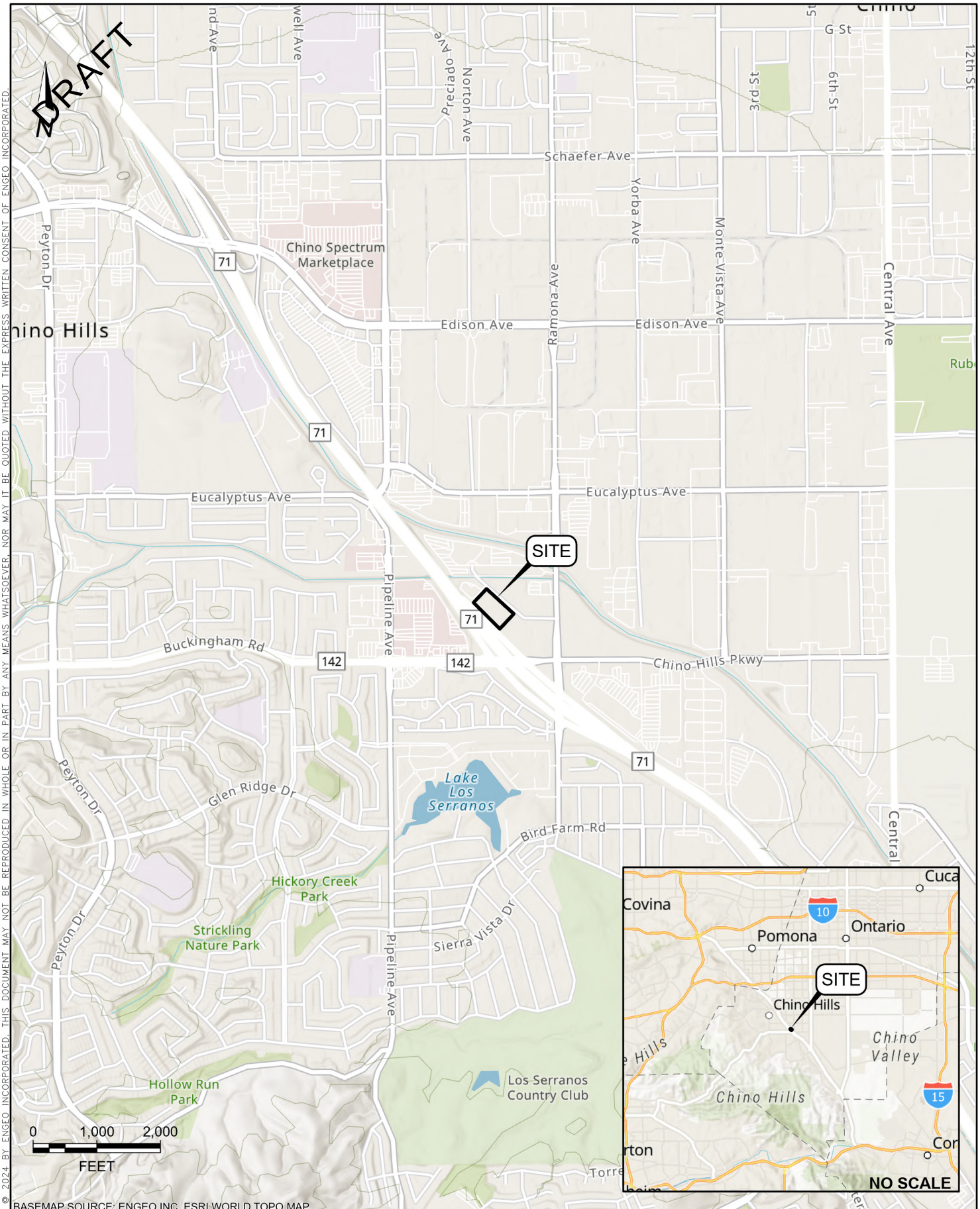
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FIGURES

FIGURE 1: Vicinity Map
FIGURE 2: Site Plan
FIGURE 3: Assessor's Parcel Map
FIGURE 4: Site Photographs



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BASEMAP SOURCE: ENGEO INC, ESRI WORLD TOPO MAP

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VICINITY MAP

CORPORATE CENTER CHINO

CHINO, CALIFORNIA

PROJECT NO. :	25751.000.001
SCALE:	AS SHOWN
DRAWN BY: MMH	CHECKED BY: SPM

FIGURE NO. 1

ORIGINAL FIGURE PRINTED IN COLOR

PATH: G:\DRAFTING\PROJECTS_24000 TO 25999\25751\25751000001\ENVIRONMENTAL\ESA\CORPORATE CENTER CHINO ESA.APRX
LAYOUT: 01. VICINITY 8.5 X 11 PORTRAIT USER: MHAWKINS



BASEMAP SOURCE: GOOGLE EARTH MAPPING SERVICE 2023

EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

Project Site

Surface Soil Sample (ENGEO, 2024)

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SITE PLAN

CORPORATE CENTER CHINO

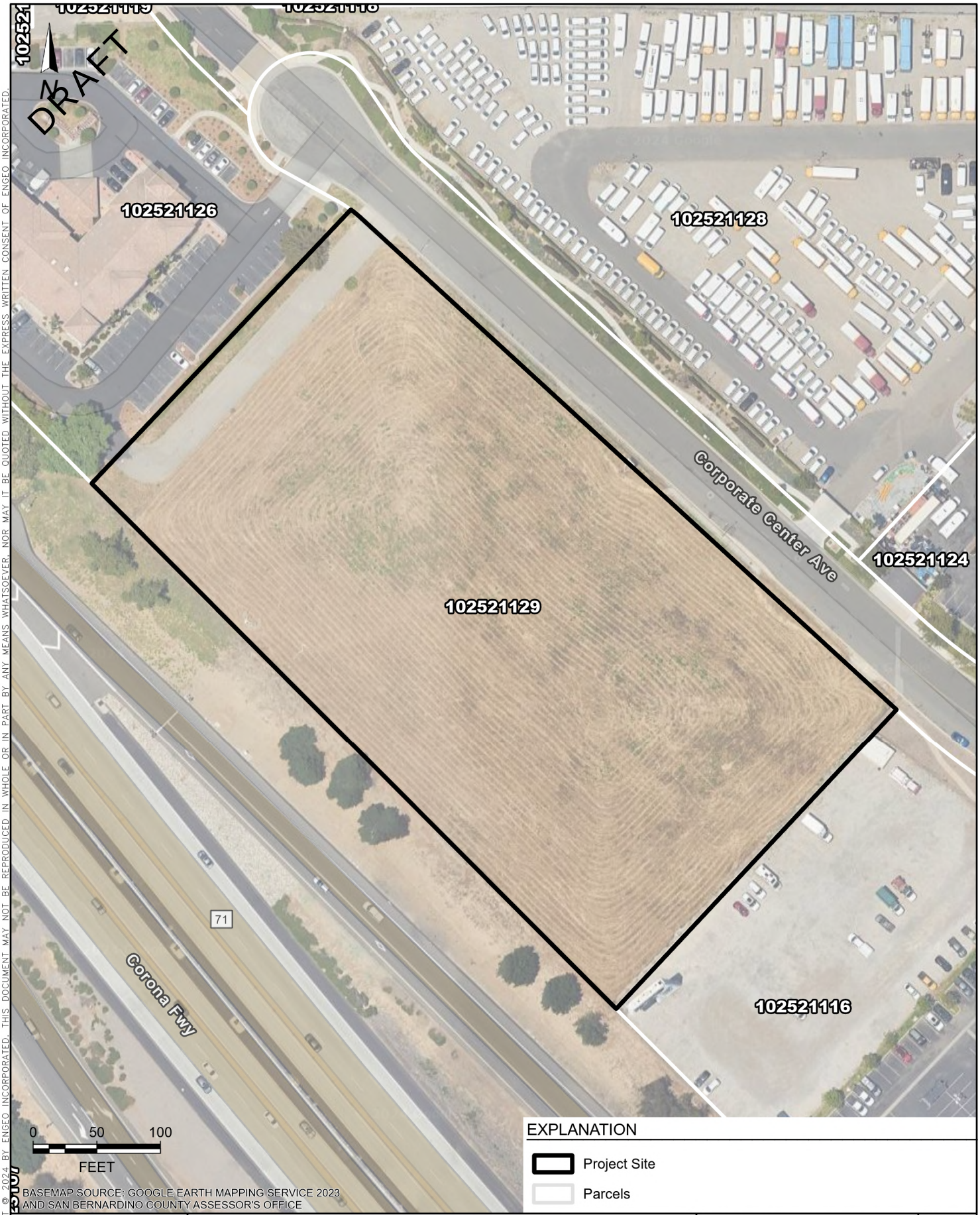
CHINO, CALIFORNIA

PROJECT NO. :	25751.000.001
SCALE:	AS SHOWN
DRAWN BY: MMH	CHECKED BY: SPM

FIGURE NO. 2

ORIGINAL FIGURE PRINTED IN COLOR

PATH: G:\DRAFTING\PROJECTS_24000 TO 25999\25751\25751000001\ENVIRONMENTAL\ESA\CORPORATE CENTER CHINO ESA.APRX
LAYOUT: 02. SITE PLAN 8.5 X 11 PORTRAIT USER: MHAWKINS



BASEMAP SOURCE: GOOGLE EARTH MAPPING SERVICE 2023
AND SAN BERNARDINO COUNTY ASSESSOR'S OFFICE

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ASSESSOR'S PARCEL MAP

CORPORATE CENTER CHINO

CHINO, CALIFORNIA

PROJECT NO. :	25751.000.001
SCALE:	AS SHOWN
DRAWN BY: MMH	CHECKED BY: SPM

FIGURE NO. 3

ORIGINAL FIGURE PRINTED IN COLOR

PATH: G:\DRAFTING\PROJECTS_24000 TO 25999\25751\25751000001\ENVIRONMENTAL\ESA\CORPORATE CENTER CHINO ESA.APRX
LAYOUT: 03. PARCEL 8.5 X 11 PORTRAIT USER: MHAWKINS

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VIEW OF THE PROPERTY FROM THE EAST CORNER



VIEW OF THE PROPERTY FROM THE NORTH CORNER



VIEW OF THE PROPERTY FROM THE WEST CORNER



VIEW OF THE PROPERTY FROM THE SOUTH CORNER



SIGNS IN THE SOUTHERN PORTION OF THE PROPERTY

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SITE PHOTOGRAPHS
CORPORATE CENTER CHINO
CHINO, CALIFORNIA

PROJECT NUMBER: **25751.000.001**	FIGURE NO. **4**
SCALE: **NO SCALE**	
DRAWN BY: **MMH**	CHECKED BY: **SPM**

Path: \\usazurefiles.file.core.windows.net\usfiles\Active Projects_24000 to 25999\25751\25751000001 - Corporate Center Chino\Phase I ESA\Site Recon

ORIGINAL FIGURE PRINTED IN COLOR



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APPENDIX A

ENVIRONMENTAL DATA RESOURCES, INC.

Radius Map Report

Corporate Center
Not Reported
CHINO, CA 91710

Inquiry Number: 07655324.2r
May 17, 2024

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

NOT REPORTED
CHINO, CA 91710

COORDINATES

Latitude (North):	33.9849080 - 33° 59' 5.66''
Longitude (West):	117.7096880 - 117° 42' 34.87''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	434448.2
UTM Y (Meters):	3760515.2
Elevation:	637 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	50006194 PRADO DAM, CA
Version Date:	2022
North Map:	50005381 ONTARIO, CA
Version Date:	2021

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20200424
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
NOT REPORTED
CHINO, CA 91710

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	DEALER DIRECT DETAIL	4480 CHINO HILLS PKW	RCRA NonGen / NLR	Lower	578, 0.109, SE
A2	CHINO HILLS FORD	4480 CHINO HILLS PKW	RCRA NonGen / NLR	Lower	578, 0.109, SE
A3	DYNAMIC AUTO IMAGES	4480 CHINO HILLS PKW	RCRA NonGen / NLR	Lower	578, 0.109, SE
A4	CHINO HILLS FORD SAL	4480 CHINO HILLS PKW	RCRA-SQG, AST, CERS HAZ WASTE, CERS TANKS, FINDS,..	Lower	578, 0.109, SE
A5	CHINO HIILLS FORD SA	4480 CHINO HILLS PKW	AST	Lower	578, 0.109, SE
A6	DEALER DIRECT DETAIL	4480 CHINO HILLS PKY	San Bern. Co. Permit	Lower	578, 0.109, SE
B7	CBS INTERIM PARKING	14740 RAMONA AVENUE	CERS HAZ WASTE, NPDES, San Bern. Co. Permit,...	Lower	613, 0.116, East
B8	CREATIVE BUS SALES I	14740 RAMONA AVE	RCRA NonGen / NLR	Lower	613, 0.116, East
B9	SATURN OF CHINO VALL	14740 RAMONA AVE	RCRA-SQG, FINDS, ECHO	Lower	613, 0.116, East
B10	CHINO VALLEY FEATHER	14740 RAMONA AVE	AST, San Bern. Co. Permit	Lower	613, 0.116, East
B11	FLATIRON WEST, INC.	14726 RAMONA AVE, SU	RCRA NonGen / NLR	Lower	721, 0.137, ENE
B12	AT&T MOBILITY - CHIN	14726 RAMONA AVE STE	San Bern. Co. Permit, CERS	Lower	721, 0.137, ENE
C13	ECO CLEANERS	4200 CHINO HILLS PKW	RCRA NonGen / NLR	Higher	802, 0.152, WSW
C14	ECO CLEANERS	4200 CHINO HILLS PAR	ENVIROSTOR, LUST, VCP, HAULERS, CERS HAZ WASTE,...	Higher	802, 0.152, WSW
C15	WEINGARTEN REAL ESTA	4200 CHINO HILLS PAR	RCRA NonGen / NLR	Higher	802, 0.152, WSW
C16	TACO BELL STORE #434	4200 CHINO HILLS PKY	San Bern. Co. Permit	Higher	802, 0.152, WSW
C17	JUST TIRES #4841	4200 CHINO HILLS PKW	RCRA NonGen / NLR	Higher	802, 0.152, WSW
C18	RITE AID #5578	4200 CHINO HILLS PKW	RCRA-SQG	Higher	802, 0.152, WSW
C19	CIRCLE K SS # 5728	4200 CHINO HILLS PKW	UST	Higher	802, 0.152, WSW
C20	GOODWILL STORE #77 C	4200 CHINO HILLS PKW	RCRA NonGen / NLR	Higher	802, 0.152, WSW
C21	WINSTON TIRE NO 191	4200 CHINO HILLS PKW	RCRA-SQG, FINDS, ECHO, HWTS, HAZNET	Higher	802, 0.152, WSW
C22	CIRCLE K STORE #2705	4200 CHINO HILLS PKW	UST	Higher	802, 0.152, WSW
C23	DOLLAR TREE #03134	4200 CHINO HILLS PKW	RCRA NonGen / NLR	Higher	802, 0.152, WSW
C24	GOODWILL INDUSTRIES	4200 CHINO HILLS PKW	RCRA NonGen / NLR	Higher	802, 0.152, WSW
C25	ECO CLEANERS	4200 CHINO HILLS PKY	DRYCLEANERS	Higher	802, 0.152, WSW
C26	SMART & FINAL #924	4200 CHINO HILLS PKW	RCRA NonGen / NLR	Higher	802, 0.152, WSW
C27	COSMOPROF BEAUTY #87	4200 CHINO PKWY STE	CERS HAZ WASTE, HWTS, HAZNET, San Bern. Co. Permit	Higher	802, 0.152, WSW
C28	VONS STORE NO 2597	4200 CHINO HILLS PKW	RCRA NonGen / NLR	Higher	802, 0.152, WSW
C29	POUNDS OFF MEDICAL C	4200 CHINO HILLS PKW	RCRA NonGen / NLR	Higher	802, 0.152, WSW
C30	MARKET PLACE CLEANER	4200 CHINO HILLS PKY	DRYCLEANERS	Higher	802, 0.152, WSW
C31	ECO CLEANERS	4200 CHINO HILLS PKY	CERS HAZ WASTE, San Bern. Co. Permit, CERS	Higher	802, 0.152, WSW
C32	MARKETPLACE CLEANERS	4200 CHINO HILLS PKW	RCRA-SQG, FINDS, ECHO, DRYCLEANERS	Higher	802, 0.152, WSW
C33	RITE AID #5578	4200 CHINO HILLS PKY	SWRCY, CERS HAZ WASTE, San Bern. Co. Permit, CERS	Higher	802, 0.152, WSW
C34	JUST TIRES #4841	4200 CHINO HILLS PKY	CERS HAZ WASTE, San Bern. Co. Permit, CERS	Higher	802, 0.152, WSW
C35	FOTOTECH	4200 CHINO HILLS PKY	San Bern. Co. Permit	Higher	802, 0.152, WSW
C36	DOLLAR TREE #03134	4200 CHINO HILLS PKY	San Bern. Co. Permit	Higher	802, 0.152, WSW
C37	ECO CLEANERS	4200 CHINO HILLS PKY	DRYCLEANERS	Higher	802, 0.152, WSW
C38	DOLLAR TREE #03134	4200 CHINO HILLS PKW	CERS HAZ WASTE, HWTS, HAZNET, CERS	Higher	802, 0.152, WSW
C39	RITE AID #5578	4200 CHINO HILLS PKW	RCRA-LQG	Higher	802, 0.152, WSW

MAPPED SITES SUMMARY

Target Property Address:
NOT REPORTED
CHINO, CA 91710

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
C40	CARL'S JR #603	4200 CHINO HILLS PKY	San Bern. Co. Permit	Higher	802, 0.152, WSW
C41	ECO CLEANERS	4200 CHINO HILLS PKW	DRYCLEANERS, HWTS, HAZNET	Higher	802, 0.152, WSW
C42	CIRCLE K STORES INC	4200 CHINO HILLS PKW	RCRA NonGen / NLR	Higher	802, 0.152, WSW
C43	CIRCLE K STORE #2705	4200 CHINO HILLS PKW	UST FINDER	Higher	802, 0.152, WSW
C44	CIRCLE K #5728	4200 CHINO HILLS PAR	UST FINDER RELEASE	Higher	802, 0.152, WSW
D45	VERIZON WIRELESS: LA	14664 RAMONA AVE	San Bern. Co. Permit	Lower	1076, 0.204, NE
46	CORNER BAKERY CAFE	4517 CHINO HILLS PKY	San Bern. Co. Permit	Lower	1077, 0.204, SE
D47	CALIBER COLLISION CE	14622 RAMONA AVE	RCRA NonGen / NLR	Lower	1185, 0.224, NE
D48	CALIBER COLLISION CE	14622 RAMONA AVENUE	RCRA-SQG	Lower	1185, 0.224, NE
D49	CALIBER COLLISION CE	14622 RAMONA AVE	CERS HAZ WASTE, HWTS, San Bern. Co. Permit, CERS	Lower	1185, 0.224, NE
50	TECH SYSTEMS GROUP I	4451 EUCALYPTUS AVE	RCRA NonGen / NLR, HWTS, HAZNET	Higher	1188, 0.225, NNE
E51	SB CO. CHINO HILLS Y	14575 PIPELINE AVENU	LUST, CPS-SLIC, BROWNFIELDS, SWEEPS UST, CA FID...	Higher	1215, 0.230, WNW
F52	CHINO HILLS AUTO CAR	14688 PIPELINE AVE S	CERS HAZ WASTE, San Bern. Co. Permit, CERS	Higher	1224, 0.232, WSW
F53	CHINO HILLS ECONO LU	14688 PIPELINE AVE U	San Bern. Co. Permit	Higher	1224, 0.232, WSW
G54	J & J CLEANERS	4183 CHINO HILLS PKW	RCRA-SQG, FINDS	Higher	1236, 0.234, SW
G55	THE HOME DEPOT STORE	3500 MARKET PL	CERS HAZ WASTE, CERS	Higher	1260, 0.239, SW
E56	HHW CHINO HILLS TEMP	14575 PIPELINE AVE	San Bern. Co. Permit	Higher	1290, 0.244, WNW
E57	CHINO HILLS CITY YAR	14575 PIPELINE AVE	San Bern. Co. Permit	Higher	1290, 0.244, WNW
H58	ARCO #5656	4123 CHINO HILLS PAR	UST FINDER RELEASE	Higher	1567, 0.297, WSW
H59	ARCO #5656	4123 CHINO HILLS PAR	LUST, CHMIRS, Cortese, HWTS, HAZNET, CERS	Higher	1567, 0.297, WSW
60	G PAT HATTON	4080 CARBON CANYON R	LUST, HIST UST, CERS	Higher	1654, 0.313, WSW
H61	ARCO #1923	4080 CHINO HILLS PKW	UST FINDER RELEASE	Higher	1710, 0.324, WSW
H62	ARCO #1923	4080 CARBON CANYON R	LUST, Cortese	Higher	1741, 0.330, SW
I63	CHINO HILLS CAR WASH	14694 PIPELINE AVE	LUST, UST, Cortese, San Bern. Co. Permit, CERS	Higher	1759, 0.333, WNW
I64	CHINO HILLS CAR WASH	14694 PIPELINE AVE	UST FINDER RELEASE	Higher	1759, 0.333, WNW
J65	CHINO DISTRICT FIRE	4040 EUCALYPTUS	LUST, HIST CORTESE, Notify 65, CERS	Higher	2347, 0.445, NW
J66	CHINO DISTRICT FIRE	4040 EUCALYPTUS AVE	UST FINDER RELEASE	Higher	2347, 0.445, NW
J67	CHINO DISTRICT FIRE	4040 EUCALYPTUS AVE	LUST, Cortese	Higher	2347, 0.445, NW
68	ROLLING RIDGE RANCH	15111 PIPELINE AVE	LUST, Notify 65	Higher	2863, 0.542, SSW
69	BIRD FARM ELEMENTARY	POMONA RINCON ROAD/F	ENVIROSTOR, SCH	Lower	5199, 0.985, SE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---------- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ---------- Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROLS ---------- Institutional Controls Sites List

EXECUTIVE SUMMARY

Federal ERNS list

ERNS ---------- Emergency Response Notification System

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE ---------- State Response Sites

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF ---------- Solid Waste Information System

Lists of state and tribal leaking storage tanks

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

Lists of state and tribal registered storage tanks

FEMA UST ---------- Underground Storage Tank Listing
INDIAN UST ---------- Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---------- Waste Management Unit Database
HAULERS ---------- Registered Waste Tire Haulers Listing
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
ODI ---------- Open Dump Inventory
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---------- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---------- Historical Calsites Database
SCH ---------- School Property Evaluation Program
CDL ---------- Clandestine Drug Labs
Toxic Pits ---------- Toxic Pits Cleanup Act Sites
US CDL ---------- National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

HIST UST ---------- Hazardous Substance Storage Container Database

Local Land Records

LIENS ---------- Environmental Liens Listing

LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
MINES MRDS	Mineral Resources Data System
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
ECHO	Enforcement & Compliance History Information
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
FUELS PROGRAM	EPA Fuels Program Registered Listing
PFAS NPL	Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES	Federal Sites PFAS Information
PFAS TSCA	PFAS Manufacture and Imports Information
PFAS TRIS	List of PFAS Added to the TRI

PFAS RCRA MANIFEST PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR PFAS Contamination Site Location Listing
PFAS WQP Ambient Environmental Sampling for PFAS
PFAS NPDES Clean Water Act Discharge Monitoring Information
PFAS ECHO Facilities in Industries that May Be Handling PFAS Listing
PFAS ECHO FIRE TRAINING Facilities in Industries that May Be Handling PFAS Listing
PFAS PART 139 AIRPORT All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC Aqueous Foam Related Incidents Listing
BIOSOLIDS ICIS-NPDES Biosolids Facility Data
PFAS PFAS Investigation Site Location Listing
AQUEOUS FOAM Former Fire Training Facility Assessments Listing
CA BOND EXP. PLAN Bond Expenditure Plan
CHROME PLATING Chrome Plating Facilities Listing
CUPA Listings CUPA Resources List
EMI Emissions Inventory Data
ENF Enforcement Action Listing
Financial Assurance Financial Assurance Information Listing
ICE Inspection, Compliance and Enforcement
HWP EnviroStor Permitted Facilities Listing
HWT Registered Hazardous Waste Transporter Database
HWTS Hazardous Waste Tracking System
HAZNET Facility and Manifest Data
MINES Mines Site Location Listing
MWMP Medical Waste Management Program Listing
NPDES NPDES Permits Listing
PEST LIC Pesticide Regulation Licenses Listing
PROC Certified Processors Database
HAZMAT Hazardous Material Facilities
UIC UIC Listing
UIC GEO UIC GEO (GEOTRACKER)
WASTEWATER PITS Oil Wastewater Pits Listing
WDS Waste Discharge System
WIP Well Investigation Program Case List
MILITARY PRIV SITES MILITARY PRIV SITES (GEOTRACKER)
PROJECT PROJECT (GEOTRACKER)
WDR Waste Discharge Requirements Listing
CIWQS California Integrated Water Quality System
CERS CERS
NON-CASE INFO NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ Well Stimulation Project (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants
EDR Hist Auto EDR Exclusive Historical Auto Stations
EDR Hist Cleaner EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF Recovered Government Archive Solid Waste Facilities List

EXECUTIVE SUMMARY

RGA LUST ---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal RCRA generators

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 12/04/2023 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RITE AID #5578 EPA ID:: CAL000379780	4200 CHINO HILLS PKW	WSW 1/8 - 1/4 (0.152 mi.)	C39	260

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/04/2023 has revealed that there are 7 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RITE AID #5578 EPA ID:: CAR000209601	4200 CHINO HILLS PKW	WSW 1/8 - 1/4 (0.152 mi.)	C18	118
WINSTON TIRE NO 191 EPA ID:: CAR000081992	***4200 CHINO HILLS PKW***	***WSW 1/8 - 1/4 (0.152 mi.)***	***C21***	***132***
MARKETPLACE CLEANERS EPA ID:: CAD983609769	***4200 CHINO HILLS PKW***	***WSW 1/8 - 1/4 (0.152 mi.)***	***C32***	***187***
J & J CLEANERS	***4183 CHINO HILLS PKW***	***SW 1/8 - 1/4 (0.234 mi.)***	***G54***	***321***

EPA ID:: CAD983598145

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHINO HILLS FORD SAL EPA ID:: CAD983658873	***4480 CHINO HILLS PKW***	***SE 0 - 1/8 (0.109 mi.)***	***A4***	***15***
SATURN OF CHINO VALL EPA ID:: CAR000059410	***14740 RAMONA AVE***	***E 0 - 1/8 (0.116 mi.)***	***B9***	***76***
CALIBER COLLISION CE EPA ID:: CAR000356907	14622 RAMONA AVENUE	NE 1/8 - 1/4 (0.224 mi.)	D48	288

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 01/22/2024 has revealed that there are 2 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ECO CLEANERS Facility Id: 60002826 Status: Active	***4200 CHINO HILLS PAR***	***WSW 1/8 - 1/4 (0.152 mi.)***	***C14***	***87***

Lower Elevation	Address	Direction / Distance	Map ID	Page
BIRD FARM ELEMENTARY Facility Id: 36020001 Status: No Further Action	***POMONA RINCON ROAD/F***	***SE 1/2 - 1 (0.985 mi.)***	***69***	***356***

Lists of state and tribal leaking storage tanks

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 8 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ECO CLEANERS Database: LUST, Date of Government Version: 12/04/2023 Database: LUST REG 8, Date of Government Version: 02/14/2005	***4200 CHINO HILLS PAR***	***WSW 1/8 - 1/4 (0.152 mi.)***	***C14***	***87***

Status: Completed - Case Closed
Facility Status: Leak being confirmed
Global Id: T0607174333
Global ID: T0607174333

SB CO. CHINO HILLS Y ***14575 PIPELINE AVENU*** ***WNW 1/8 - 1/4 (0.230 mi.)*** ***E51*** ***309***
Database: LUST, Date of Government Version: 12/04/2023
Database: LUST REG 8, Date of Government Version: 02/14/2005
Status: Completed - Case Closed
Facility Status: Leak being confirmed
Global Id: T0607100540
Global ID: T0607100540

ARCO #5656 ***4123 CHINO HILLS PAR*** ***WSW 1/4 - 1/2 (0.297 mi.)*** ***H59*** ***329***
Database: LUST, Date of Government Version: 12/04/2023
Database: LUST REG 8, Date of Government Version: 02/14/2005
Status: Completed - Case Closed
Facility Status: Case Closed
Global Id: T060712922
Global ID: T060712922

G PAT HATTON ***4080 CARBON CANYON R*** ***WSW 1/4 - 1/2 (0.313 mi.)*** ***60*** ***336***
Database: LUST, Date of Government Version: 12/04/2023
Status: Completed - Case Closed
Global Id: T0607100009

ARCO #1923 ***4080 CARBON CANYON R*** ***SW 1/4 - 1/2 (0.330 mi.)*** ***H62*** ***341***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Facility Status: Case Closed
Global ID: T0607100009

CHINO HILLS CAR WASH ***14694 PIPELINE AVE*** ***WNW 1/4 - 1/2 (0.333 mi.)*** ***I63*** ***342***
Database: LUST, Date of Government Version: 12/04/2023
Status: Completed - Case Closed
Global Id: T0607199003
Global Id: T0607199281

CHINO DISTRICT FIRE ***4040 EUCALYPTUS*** ***NW 1/4 - 1/2 (0.445 mi.)*** ***J65*** ***349***
Database: LUST, Date of Government Version: 12/04/2023
Status: Completed - Case Closed
Global Id: T0607100135

CHINO DISTRICT FIRE ***4040 EUCALYPTUS AVE*** ***NW 1/4 - 1/2 (0.445 mi.)*** ***J67*** ***352***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Facility Status: Case Closed
Global ID: T0607100135

CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there is 1 CPS-SLIC site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SB CO. CHINO HILLS Y	***14575 PIPELINE AVENU***	***WNW 1/8 - 1/4 (0.230 mi.)***	***E51***	***309***

Database: CPS-SLIC, Date of Government Version: 12/04/2023

Facility Status: Open - Verification Monitoring
Global Id: T10000005917

Lists of state and tribal registered storage tanks

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CIRCLE K SS # 5728 Database: UST, Date of Government Version: 12/04/2023 Facility Id: 90022497	4200 CHINO HILLS PKW	WSW 1/8 - 1/4 (0.152 mi.)	C19	129
CIRCLE K STORE #2705 Database: UST, Date of Government Version: 12/04/2023 Facility Id: FA0002189	4200 CHINO HILLS PKW	WSW 1/8 - 1/4 (0.152 mi.)	C22	139

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there are 3 AST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHINO HILLS FORD SAL Database: AST, Date of Government Version: 07/06/2016	***4480 CHINO HILLS PKW***	***SE 0 - 1/8 (0.109 mi.)***	***A4***	***15***
CHINO HIILLS FORD SA Database: AST, Date of Government Version: 07/06/2016	4480 CHINO HILLS PKW	SE 0 - 1/8 (0.109 mi.)	A5	58
CHINO VALLEY FEATHER Database: AST, Date of Government Version: 07/06/2016	***14740 RAMONA AVE***	***E 0 - 1/8 (0.116 mi.)***	***B10***	***78***

Lists of state and tribal voluntary cleanup sites

VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the VCP list, as provided by EDR, and dated 01/22/2024 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ECO CLEANERS Status: Active Facility Id: 60002826	***4200 CHINO HILLS PAR***	***WSW 1/8 - 1/4 (0.152 mi.)***	***C14***	***87***

Lists of state and tribal brownfield sites

BROWNFIELDS: A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

A review of the BROWNFIELDS list, as provided by EDR, and dated 12/13/2023 has revealed that there is 1 BROWNFIELDS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SB CO. CHINO HILLS Y	*14575 PIPELINE AVENU*	*WNW 1/8 - 1/4 (0.230 mi.)*	*E51*	*309*

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: A listing of recycling facilities in California.

A review of the SWRCY list, as provided by EDR, and dated 11/29/2023 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RITE AID #5578 Cert Id: RC12885	*4200 CHINO HILLS PKY*	*WSW 1/8 - 1/4 (0.152 mi.)*	*C33*	*190*

Local Lists of Hazardous waste / Contaminated Sites

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 01/16/2024 has revealed that there are 11 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ECO CLEANERS	*4200 CHINO HILLS PAR*	*WSW 1/8 - 1/4 (0.152 mi.)*	*C14*	*87*
COSMOPROF BEAUTY #87	*4200 CHINO PKWY STE*	*WSW 1/8 - 1/4 (0.152 mi.)*	*C27*	*148*
ECO CLEANERS	*4200 CHINO HILLS PKY*	*WSW 1/8 - 1/4 (0.152 mi.)*	*C31*	*180*
RITE AID #5578	*4200 CHINO HILLS PKY*	*WSW 1/8 - 1/4 (0.152 mi.)*	*C33*	*190*
JUST TIRES #4841	*4200 CHINO HILLS PKY*	*WSW 1/8 - 1/4 (0.152 mi.)*	*C34*	*195*
DOLLAR TREE #03134	*4200 CHINO HILLS PKW*	*WSW 1/8 - 1/4 (0.152 mi.)*	*C38*	*204*
CHINO HILLS AUTO CAR	*14688 PIPELINE AVE S*	*WSW 1/8 - 1/4 (0.232 mi.)*	*F52*	*316*
THE HOME DEPOT STORE	*3500 MARKET PL*	*SW 1/8 - 1/4 (0.239 mi.)*	*G55*	*324*

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHINO HILLS FORD SAL	*4480 CHINO HILLS PKW*	*SE 0 - 1/8 (0.109 mi.)*	*A4*	*15*
CBS INTERIM PARKING	*14740 RAMONA AVENUE*	*E 0 - 1/8 (0.116 mi.)*	*B7*	*59*
CALIBER COLLISION CE	*14622 RAMONA AVE*	*NE 1/8 - 1/4 (0.224 mi.)*	*D49*	*291*

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there is 1 SWEEPS UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SB CO. CHINO HILLS Y	***14575 PIPELINE AVENU***	***WNW 1/8 - 1/4 (0.230 mi.)***	***E51***	***309***
Status: A Tank Status: A Comp Number: 8727				

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 01/16/2024 has revealed that there are 2 CERS TANKS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ECO CLEANERS	***4200 CHINO HILLS PAR***	***WSW 1/8 - 1/4 (0.152 mi.)***	***C14***	***87***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
CHINO HILLS FORD SAL	***4480 CHINO HILLS PKW***	***SE 0 - 1/8 (0.109 mi.)***	***A4***	***15***

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there is 1 CA FID UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SB CO. CHINO HILLS Y	***14575 PIPELINE AVENU***	***WNW 1/8 - 1/4 (0.230 mi.)***	***E51***	***309***
Facility Id: 36001985 Status: A				

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/04/2023 has revealed that

there are 17 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ECO CLEANERS EPA ID:: CAL000425809	4200 CHINO HILLS PKW	WSW 1/8 - 1/4 (0.152 mi.)	C13	84
WEINGARTEN REAL ESTA EPA ID:: CAC003079704	4200 CHINO HILLS PAR	WSW 1/8 - 1/4 (0.152 mi.)	C15	114
JUST TIRES #4841 EPA ID:: CAL000266030	4200 CHINO HILLS PKW	WSW 1/8 - 1/4 (0.152 mi.)	C17	116
GOODWILL STORE #77 C EPA ID:: CAC003260414	4200 CHINO HILLS PKW	WSW 1/8 - 1/4 (0.152 mi.)	C20	130
DOLLAR TREE #03134 EPA ID:: CAL000390986	4200 CHINO HILLS PKW	WSW 1/8 - 1/4 (0.152 mi.)	C23	141
GOODWILL INDUSTRIES EPA ID:: CAC003079885	4200 CHINO HILLS PKW	WSW 1/8 - 1/4 (0.152 mi.)	C24	143
SMART & FINAL #924 EPA ID:: CAL000415814	4200 CHINO HILLS PKW	WSW 1/8 - 1/4 (0.152 mi.)	C26	146
VONS STORE NO 2597 EPA ID:: CAR000227389	4200 CHINO HILLS PKW	WSW 1/8 - 1/4 (0.152 mi.)	C28	172
POUNDS OFF MEDICAL C EPA ID:: CAL000457622	4200 CHINO HILLS PKW	WSW 1/8 - 1/4 (0.152 mi.)	C29	177
CIRCLE K STORES INC EPA ID:: CAL000278574	4200 CHINO HILLS PKW	WSW 1/8 - 1/4 (0.152 mi.)	C42	279
TECH SYSTEMS GROUP I EPA ID:: CAR000012070	***4451 EUCALYPTUS AVE***	***NNE 1/8 - 1/4 (0.225 mi.)***	***50***	***296***

Lower Elevation	Address	Direction / Distance	Map ID	Page
DEALER DIRECT DETAIL EPA ID:: CAL000477778	4480 CHINO HILLS PKW	SE 0 - 1/8 (0.109 mi.)	A1	9
CHINO HILLS FORD EPA ID:: CAL000356970	4480 CHINO HILLS PKW	SE 0 - 1/8 (0.109 mi.)	A2	11
DYNAMIC AUTO IMAGES EPA ID:: CAL000457659	4480 CHINO HILLS PKW	SE 0 - 1/8 (0.109 mi.)	A3	13
CREATIVE BUS SALES I EPA ID:: CAL000408763	14740 RAMONA AVE	E 0 - 1/8 (0.116 mi.)	B8	73
FLATIRON WEST, INC. EPA ID:: CAC003166120	14726 RAMONA AVE, SU	ENE 1/8 - 1/4 (0.137 mi.)	B11	79
CALIBER COLLISION CE EPA ID:: CAL000301199	14622 RAMONA AVE	NE 1/8 - 1/4 (0.224 mi.)	D47	284

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 12/13/2023 has revealed that there are 6 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ECO CLEANERS	***4200 CHINO HILLS PAR***	***WSW 1/8 - 1/4 (0.152 mi.)***	***C14***	***87***

Cleanup Status: COMPLETED - CASE CLOSED

SB CO. CHINO HILLS Y	***14575 PIPELINE AVENU***	***WNW 1/8 - 1/4 (0.230 mi.)***	***E51***	***309***
Cleanup Status: COMPLETED - CASE CLOSED				
ARCO #5656	***4123 CHINO HILLS PAR***	***WSW 1/4 - 1/2 (0.297 mi.)***	***H59***	***329***
Cleanup Status: COMPLETED - CASE CLOSED				
ARCO #1923	***4080 CARBON CANYON R***	***SW 1/4 - 1/2 (0.330 mi.)***	***H62***	***341***
Cleanup Status: COMPLETED - CASE CLOSED				
CHINO HILLS CAR WASH	***14694 PIPELINE AVE***	***WNW 1/4 - 1/2 (0.333 mi.)***	***I63***	***342***
Cleanup Status: COMPLETED - CASE CLOSED				
CHINO DISTRICT FIRE	***4040 EUCALYPTUS AVE***	***NW 1/4 - 1/2 (0.445 mi.)***	***J67***	***352***
Cleanup Status: COMPLETED - CASE CLOSED				

DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, has revealed that there are 6 DRYCLEANERS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ECO CLEANERS	***4200 CHINO HILLS PAR***	***WSW 1/8 - 1/4 (0.152 mi.)***	***C14***	***87***
Database: DRYCLEANERS, Date of Government Version: 04/02/2024 EPA Id: CAL000425809				
ECO CLEANERS	4200 CHINO HILLS PKY	WSW 1/8 - 1/4 (0.152 mi.)	C25	145
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 02/20/2024				
MARKET PLACE CLEANER	4200 CHINO HILLS PKY	WSW 1/8 - 1/4 (0.152 mi.)	C30	179
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 02/20/2024				
MARKETPLACE CLEANERS	***4200 CHINO HILLS PKW***	***WSW 1/8 - 1/4 (0.152 mi.)***	***C32***	***187***
Database: DRYCLEANERS, Date of Government Version: 04/02/2024 EPA Id: CAD983609769				
ECO CLEANERS	4200 CHINO HILLS PKY	WSW 1/8 - 1/4 (0.152 mi.)	C37	203
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 02/20/2024				
ECO CLEANERS	***4200 CHINO HILLS PKW***	***WSW 1/8 - 1/4 (0.152 mi.)***	***C41***	***264***
Database: DRYCLEANERS, Date of Government Version: 04/02/2024 EPA Id: CAL000399272				

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 2 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SB CO. CHINO HILLS Y	***14575 PIPELINE AVENU***	***WNW 1/8 - 1/4 (0.230 mi.)***	***E51***	***309***
Reg Id: 083603369T				
CHINO DISTRICT FIRE	***4040 EUCALYPTUS***	***NW 1/4 - 1/2 (0.445 mi.)***	***J65***	***349***

EXECUTIVE SUMMARY

Reg Id: 083601178T

San Bern. Co. Permit: San Bernardino County Fire Department Hazardous Materials Division.

A review of the San Bern. Co. Permit list, as provided by EDR, and dated 02/13/2024 has revealed that there are 21 San Bern. Co. Permit sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ECO CLEANERS Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0017549 Facility Id: FA0007874	***4200 CHINO HILLS PAR***	***WSW 1/8 - 1/4 (0.152 mi.)***	***C14***	***87***
TACO BELL STORE #434 Facility Status: INACTIVE Facility Id: FA0014838	4200 CHINO HILLS PKY	WSW 1/8 - 1/4 (0.152 mi.)	C16	116
COSMOPROF BEAUTY #87 Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0017492 Facility Id: FA0002189	***4200 CHINO PKWY STE***	***WSW 1/8 - 1/4 (0.152 mi.)***	***C27***	***148***
ECO CLEANERS Facility Status: ACTIVE Facility Id: FA0004589	***4200 CHINO HILLS PKY***	***WSW 1/8 - 1/4 (0.152 mi.)***	***C31***	***180***
RITE AID #5578 Facility Status: INACTIVE Facility Id: FA0008007 Facility Id: FA0004598 Facility Id: FA0007325	***4200 CHINO HILLS PKY***	***WSW 1/8 - 1/4 (0.152 mi.)***	***C33***	***190***
JUST TIRES #4841 Facility Status: ACTIVE Facility Id: FA0011658	***4200 CHINO HILLS PKY***	***WSW 1/8 - 1/4 (0.152 mi.)***	***C34***	***195***
FOTOTECH Facility Status: INACTIVE Facility Id: FA0003320	4200 CHINO HILLS PKY	WSW 1/8 - 1/4 (0.152 mi.)	C35	202
DOLLAR TREE #03134 Facility Status: ACTIVE Facility Id: FA0015897	4200 CHINO HILLS PKY	WSW 1/8 - 1/4 (0.152 mi.)	C36	203
CARL'S JR #603 Facility Status: INACTIVE Facility Id: FA0012447	4200 CHINO HILLS PKY	WSW 1/8 - 1/4 (0.152 mi.)	C40	263
CHINO HILLS AUTO CAR Facility Status: ACTIVE Facility Id: FA0001923	***14688 PIPELINE AVE S***	***WSW 1/8 - 1/4 (0.232 mi.)***	***F52***	***316***
CHINO HILLS ECONO LU Facility Status: INACTIVE Facility Id: FA0002863	14688 PIPELINE AVE U	WSW 1/8 - 1/4 (0.232 mi.)	F53	321
HHW CHINO HILLS TEMP Facility Status: INACTIVE	14575 PIPELINE AVE	WNW 1/8 - 1/4 (0.244 mi.)	E56	327

Facility Id: FA0012073

CHINO HILLS CITY YAR Facility Status: INACTIVE Facility Id: FA0001990	14575 PIPELINE AVE	WNW 1/8 - 1/4 (0.244 mi.)	E57	328

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHINO HILLS FORD SAL Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0013701 Facility Id: FA0001925	***4480 CHINO HILLS PKW***	***SE 0 - 1/8 (0.109 mi.)***	***A4***	***15***
DEALER DIRECT DETAIL Facility Status: ACTIVE Facility Id: FA0019300	4480 CHINO HILLS PKY	SE 0 - 1/8 (0.109 mi.)	A6	59
CBS INTERIM PARKING Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0016587	***14740 RAMONA AVENUE***	***E 0 - 1/8 (0.116 mi.)***	***B7***	***59***
CHINO VALLEY FEATHER Facility Status: INACTIVE Facility Id: FA0011662	***14740 RAMONA AVE***	***E 0 - 1/8 (0.116 mi.)***	***B10***	***78***
AT&T MOBILITY - CHIN Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0008982 Facility Id: FA0001926	***14726 RAMONA AVE STE***	***ENE 1/8 - 1/4 (0.137 mi.)***	***B12***	***82***
VERIZON WIRELESS: LA Facility Status: INACTIVE Facility Id: FA0017896	14664 RAMONA AVE	NE 1/8 - 1/4 (0.204 mi.)	D45	283
CORNER BAKERY CAFE Facility Status: INACTIVE Facility Id: FA0012387	4517 CHINO HILLS PKY	SE 1/8 - 1/4 (0.204 mi.)	46	284
CALIBER COLLISION CE Facility Status: ACTIVE Facility Id: FA0001694	***14622 RAMONA AVE***	***NE 1/8 - 1/4 (0.224 mi.)***	***D49***	***291***

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 12/06/2023 has revealed that there are 2 Notify 65 sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHINO DISTRICT FIRE	***4040 EUCALYPTUS***	***NW 1/4 - 1/2 (0.445 mi.)***	***J65***	***349***
ROLLING RIDGE RANCH	***15111 PIPELINE AVE***	***SSW 1/2 - 1 (0.542 mi.)***	***68***	***354***

EXECUTIVE SUMMARY

UST FINDER: EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

A review of the UST FINDER list, as provided by EDR, and dated 06/08/2023 has revealed that there is 1 UST FINDER site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CIRCLE K STORE #2705	4200 CHINO HILLS PKW	WSW 1/8 - 1/4 (0.152 mi.)	C43	281

UST FINDER RELEASE: US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

A review of the UST FINDER RELEASE list, as provided by EDR, and dated 06/08/2023 has revealed that there are 5 UST FINDER RELEASE sites within approximately 0.5 miles of the target property.

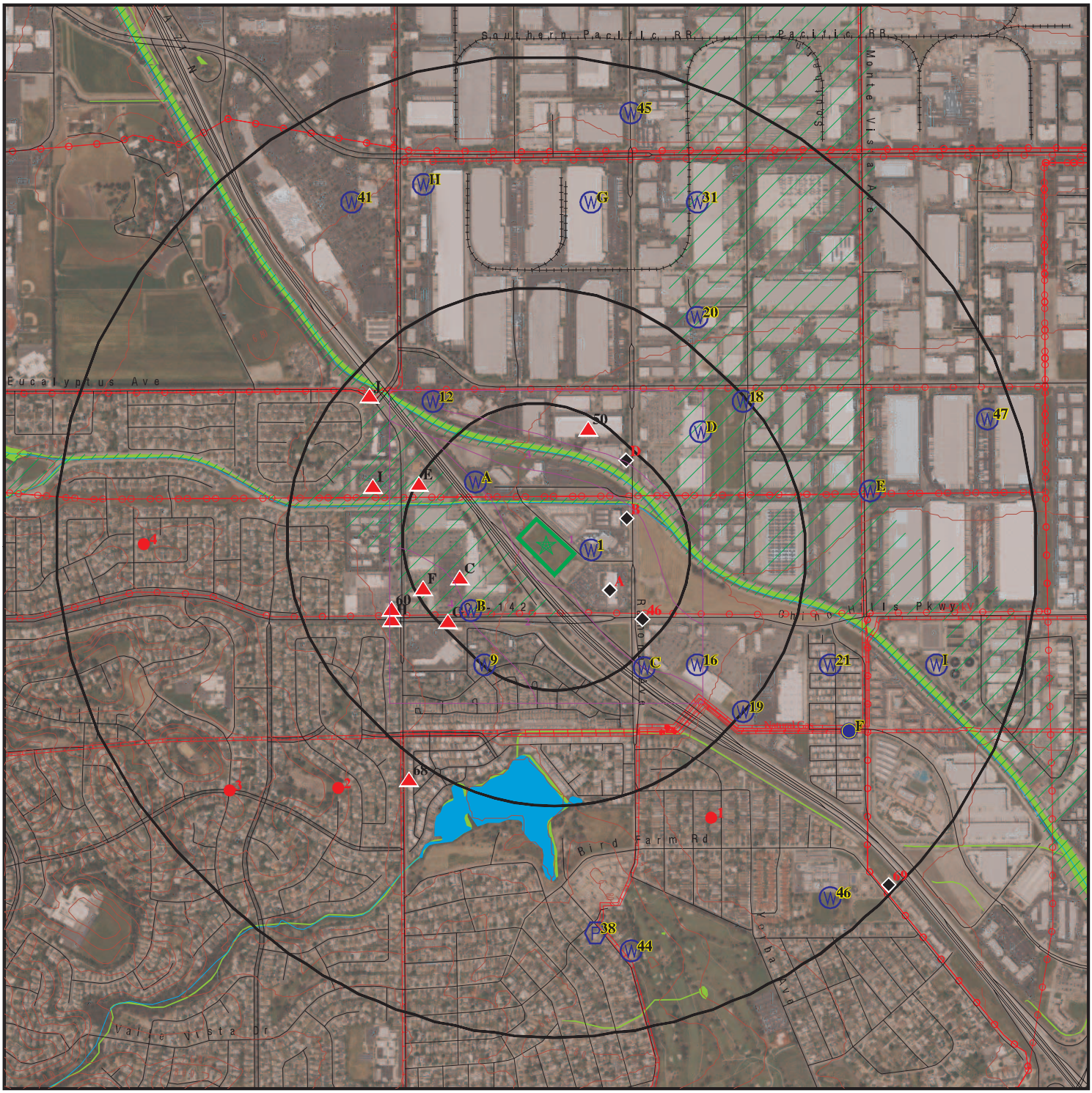
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CIRCLE K #5728	4200 CHINO HILLS PAR	WSW 1/8 - 1/4 (0.152 mi.)	C44	282
ARCO #5656	4123 CHINO HILLS PAR	WSW 1/4 - 1/2 (0.297 mi.)	H58	328
ARCO #1923	4080 CHINO HILLS PKW	WSW 1/4 - 1/2 (0.324 mi.)	H61	340
CHINO HILLS CAR WASH	14694 PIPELINE AVE	WNW 1/4 - 1/2 (0.333 mi.)	I64	348
CHINO DISTRICT FIRE	4040 EUCALYPTUS AVE	NW 1/4 - 1/2 (0.445 mi.)	J66	351

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

Site Name	Database(s)
CHINO HILLS CAR WASH	LUST, Cortese
CHINO HILLS CAR WASH	LUST
SHADY VIEW REDEVELOPMENT	ENVIROSTOR, VCP

OVERVIEW MAP - 07655324.2R



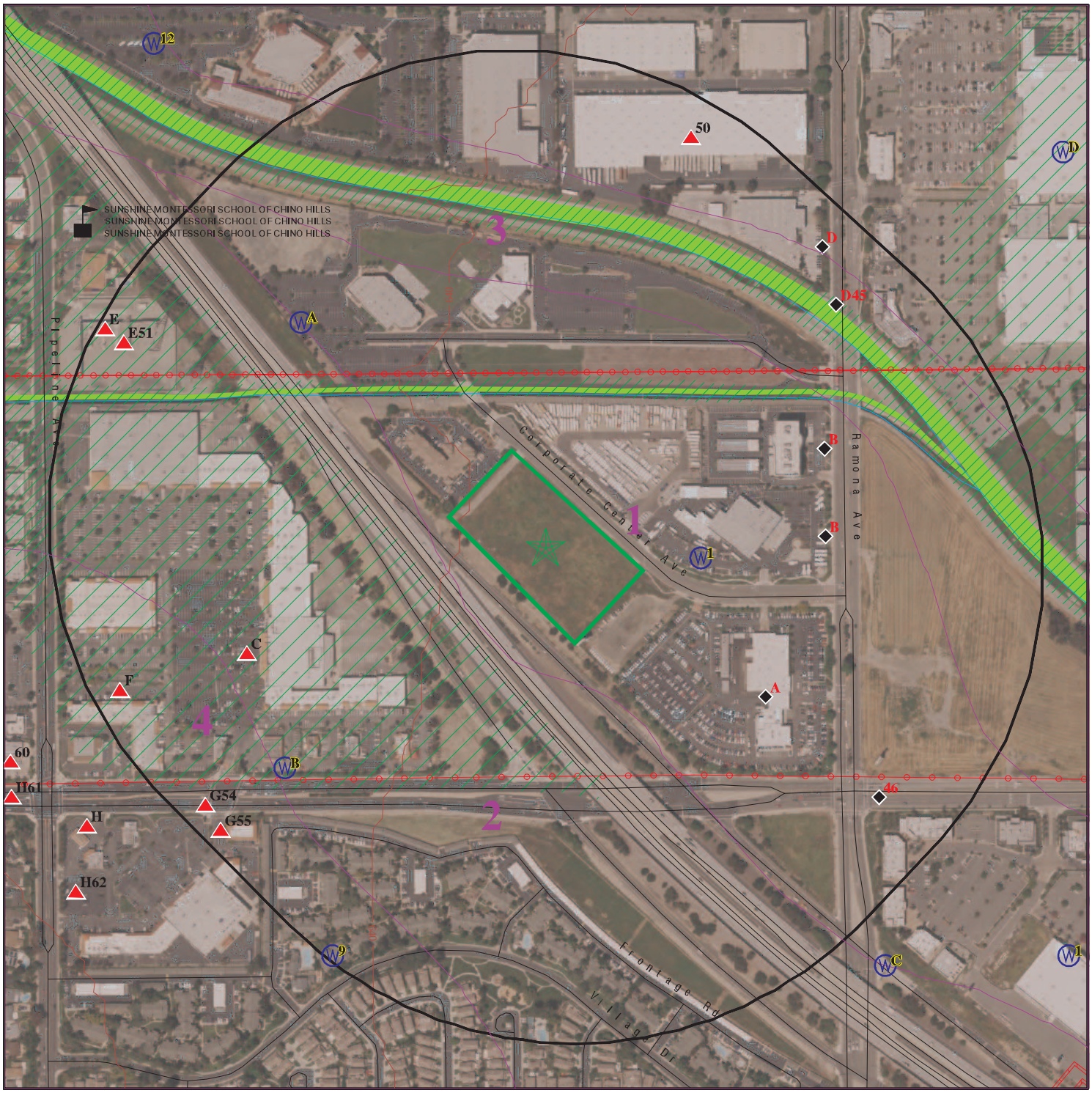
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Corporate Center	CLIENT:	Engeo Inc.
ADDRESS:	Not Reported	CONTACT:	Allie Eggert
	CHINO CA 91710	INQUIRY #:	07655324.2r
LAT/LONG:	33.984908 / 117.709688	DATE:	May 17, 2024 1:11 pm

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DETAIL MAP - 07655324.2R



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Power transmission lines

Pipelines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Corporate Center	CLIENT: Engeo Inc.
ADDRESS: Not Reported	CONTACT: Allie Eggert
CHINO CA 91710	INQUIRY #: 07655324.2r
LAT/LONG: 33.984908 / 117.709688	DATE: May 17, 2024 1:13 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250		2	5	NR	NR	NR	7
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
RESPONSE	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
ENVIROSTOR	1.000		0	1	0	1	NR	2
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal leaking storage tanks								
LUST	0.500		0	2	6	NR	NR	8
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	1	0	NR	NR	1
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	2	NR	NR	NR	2
AST	0.250		3	0	NR	NR	NR	3
INDIAN UST	0.250		0	0	NR	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	1	0	NR	NR	1
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	1	0	NR	NR	1
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	1	0	NR	NR	1
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		2	9	NR	NR	NR	11
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	1	NR	NR	NR	1
HIST UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		1	1	NR	NR	NR	2
CA FID UST	0.250		0	1	NR	NR	NR	1
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		4	13	NR	NR	NR	17
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAINING	0.250		0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	0.001		0	NR	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CHROME PLATING	0.500		0	0	0	NR	NR	0
Cortese	0.500		0	2	4	NR	NR	6
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	6	NR	NR	NR	6
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	1	1	NR	NR	2
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
HWTS	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
San Bern. Co. Permit	0.250		4	17	NR	NR	NR	21
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	1	1	NR	2
HAZMAT	0.250		0	0	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
UST FINDER	0.250		0	1	NR	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST FINDER RELEASE	0.500		0	1	4	NR	NR	5
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	16	68	16	2	0	102

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
SE
< 1/8
0.109 mi.
578 ft.

DEALER DIRECT DETAIL CHINO HILLS FORD
4480 CHINO HILLS PKWY
CHINO, CA 91710

Site 1 of 6 in cluster A

RCRA NonGen / NLR **1027701187** **CAL000477778**

Relative:
Lower

Actual:
632 ft.

RCRA Listings:

Date Form Received by Agency:	20230428
Handler Name:	Dealer Direct Detail Chino Hills Ford
Handler Address:	4480 Chino Hills Pkwy
Handler City,State,Zip:	CHINO, CA 91710
EPA ID:	CAL000477778
Contact Name:	COREY MILLER
Contact Address:	1240 N VAN BUREN ST STE 103
Contact City,State,Zip:	ANAHEIM, CA 92807
Contact Telephone:	714-981-4367
Contact Fax:	Not reported
Contact Email:	YMILLER@DEALERDIRECTDETAIL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	1240 N VAN BUREN ST STE 103
Mailing City,State,Zip:	ANAHEIM, CA 92807
Owner Name:	Dealer Direct Detail Llc
Owner Type:	Other
Operator Name:	Corey Miller
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

DEALER DIRECT DETAIL CHINO HILLS FORD (Continued) **1027701187**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20230428
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	DEALER DIRECT DETAIL LLC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1240 N VAN BUREN ST STE 103
Owner/Operator City,State,Zip:	ANAHEIM, CA 92807
Owner/Operator Telephone:	714-981-4367
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	COREY MILLER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1240 N VAN BUREN ST STE 103
Owner/Operator City,State,Zip:	ANAHEIM, CA 92807
Owner/Operator Telephone:	714-981-4367
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20230428
Handler Name:	DEALER DIRECT DETAIL CHINO HILLS FORD
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

DEALER DIRECT DETAIL CHINO HILLS FORD (Continued) **1027701187**

List of NAICS Codes and Descriptions:
NAICS Code: 811192
NAICS Description: CAR WASHES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A2 **CHINO HILLS FORD** **RCRA NonGen / NLR** **1024827411**
SE **4480 CHINO HILLS PKWY** **CAL000356970**
< 1/8 **CHINO, CA 91710**
0.109 mi.
578 ft. **Site 2 of 6 in cluster A**

Relative:
Lower

Actual:
632 ft.

RCRA Listings:

Date Form Received by Agency:	20100916
Handler Name:	Chino Hills Ford
Handler Address:	4480 Chino Hills Pkwy
Handler City,State,Zip:	CHINO, CA 91710-5602
EPA ID:	CAL000356970
Contact Name:	GORDON COOK
Contact Address:	4480 CHINO HILLS PKWY
Contact City,State,Zip:	CHINO, CA 91710
Contact Telephone:	909-203-5700
Contact Fax:	909-203-5708
Contact Email:	GCOOK@CHINOHILLSFORD.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	4480 CHINO HILLS PKWY
Mailing City,State,Zip:	CHINO, CA 91710-5602
Owner Name:	Wb Chino Hills Fd Llc
Owner Type:	Other
Operator Name:	Gordon Cook
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes

CHINO HILLS FORD (Continued) **1024827411**

Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: WB CHINO HILLS FD LLC	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4480 CHINO HILLS PKWY
Owner/Operator City,State,Zip:	CHINO, CA 91710-5602
Owner/Operator Telephone:	909-203-5700
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: GORDON COOK	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4480 CHINO HILLS PKWY
Owner/Operator City,State,Zip:	CHINO, CA 91710
Owner/Operator Telephone:	909-203-5700
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

CHINO HILLS FORD (Continued) **1024827411**

Historic Generators:
- Receive Date: 20100916
- Handler Name: CHINO HILLS FORD
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 44111
- NAICS Description: NEW CAR DEALERS

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

A3 **DYNAMIC AUTO IMAGES @ CHINO HILLS FORD** **RCRA NonGen / NLR** **1026492861**
SE **4480 CHINO HILLS PKWY** **CAL000457659**
< 1/8 **CHINO, CA 91710**
0.109 mi.
578 ft. **Site 3 of 6 in cluster A**

Relative: **Lower**

Actual: **632 ft.**

RCRA Listings:
- Date Form Received by Agency: 20201022
- Handler Name: Dynamic Auto Images @ Chino Hills Ford
- Handler Address: 4480 Chino Hills Pkwy
- Handler City,State,Zip: CHINO, CA 91710
- EPA ID: CAL000457659
- Contact Name: ELISA REYES
- Contact Address: 2680 MICHELLE DR. STE 140
- Contact City,State,Zip: IRVINE, CA 92606-1007
- Contact Telephone: 714-719-7079
- Contact Fax: 714-464-5458
- Contact Email: ELISA@DYNAMICAUTOIMAGES.COM
- Contact Title: Not reported
- EPA Region: 09
- Land Type: Not reported
- Federal Waste Generator Description: Not a generator, verified
- Non-Notifier: Not reported
- Biennial Report Cycle: Not reported
- Accessibility: Not reported
- Active Site Indicator: Not reported
- State District Owner: Not reported
- State District: Not reported
- Mailing Address: 2680 MICHELLE DR. STE 140
- Mailing City,State,Zip: IRVINE, CA 92606-1007
- Owner Name: Elisa Reyes

DYNAMIC AUTO IMAGES @ CHINO HILLS FORD (Continued) **1026492861**

Owner Type:	Other
Operator Name:	Elisa Reyes
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20201026
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: ELISA REYES	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2680 MICHELLE DR. STE 140
Owner/Operator City,State,Zip:	IRVINE, CA 92606-1007
Owner/Operator Telephone:	714-719-7079
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

DYNAMIC AUTO IMAGES @ CHINO HILLS FORD (Continued) **1026492861**

Owner/Operator Indicator: Owner
Owner/Operator Name: ELISA REYES
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 2680 MICHELLE DR. STE 140
Owner/Operator City,State,Zip: IRVINE, CA 92606-1007
Owner/Operator Telephone: 714-719-7079
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20201022
Handler Name: DYNAMIC AUTO IMAGES @ CHINO HILLS FORD
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 811192
NAICS Description: CAR WASHES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A4 **CHINO HILLS FORD SALES INC** **RCRA-SQG** **1000819874**
SE **4480 CHINO HILLS PKWY** **AST** **CAD983658873**
< 1/8 **CHINO, CA 91710** **CERS HAZ WASTE**
0.109 mi. **CERS TANKS**
578 ft. **Site 4 of 6 in cluster A** **FINDS**
ECHO
Relative: **HWTS**
Lower **HAZNET**
Actual: **San Bern. Co. Permit**
632 ft. **CERS**

RCRA Listings:
Date Form Received by Agency: 19930201
Handler Name: Chino Hills Ford Sales Inc
Handler Address: 4480 Chino Hills Pkwy
Handler City,State,Zip: CHINO, CA 91710
EPA ID: CAD983658873
Contact Name: TIMOTHY WOODS
Contact Address: 4480 CHINO HILLS PKWY

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Contact City,State,Zip:	CHINO, CA 91710
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	4480 CHINO HILLS PKWY
Mailing City,State,Zip:	CHINO, CA 91710
Owner Name:	Chino Hills Ford Sales Inc
Owner Type:	Private
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Recycler Activity Without Storage: Not reported
Manifest Broker: Not reported
Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: CHINO HILLS FORD SALES INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4480 CHINO HILLS PKWY
Owner/Operator City,State,Zip: CHINO, CA 91710
Owner/Operator Telephone: 714-393-9331
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19930201
Handler Name: CHINO HILLS FORD SALES INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 44111
NAICS Description: NEW CAR DEALERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

AST:
Name: CHINO HILLS FORD
Address: 4480 CHINO HILLS PKY
City/Zip: CHINO,91710
Certified Unified Program Agencies: Not reported
Owner: WB Chino Hills Fd, LLC.
Total Gallons: Not reported
CERSID: 10311958
Facility ID: FA0013701
Business Name: CHINO HILLS FORD
Phone: (909) 203-5700

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Fax:	(909) 203-5708
Mailing Address:	4480 CHINO HILLS PKY
Mailing Address City:	CHINO
Mailing Address State:	CA
Mailing Address Zip Code:	91710
Operator Name:	Jamey Watson
Operator Phone:	(909) 203-5700
Owner Phone:	(909) 203-5700
Owner Mail Address:	4480 CHINO HILLS PKY
Owner State:	CA
Owner Zip Code:	91710
Owner Country:	United States
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	CAL000356970

CERS HAZ WASTE:

Name:	CHINO HILLS FORD
Address:	4480 CHINO HILLS PKY
City,State,Zip:	CHINO, CA 91710
Site ID:	18636
CERS ID:	10311958
CERS Description:	Hazardous Waste Generator

CERS TANKS:

Name:	CHINO HILLS FORD
Address:	4480 CHINO HILLS PKY
City,State,Zip:	CHINO, CA 91710
Site ID:	18636
CERS ID:	10311958
CERS Description:	Aboveground Petroleum Storage

FINDS:

Registry ID: 110070900934

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Registry ID: 110071422616

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Registry ID: 110002892255

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.
The California Environmental Protection Agency (CalEPA) has recently implemented a new data warehouse system (nSite). This data warehouse combines and merges facility and site information from five different systems managed within CalEPA. The five systems are: California Environmental Reporting System (CERS),EnviroStor, GeoTracker, California Integrated Water Quality System (CIWQS), andToxic Release Inventory (TRI).
California's Hazardous Waste Tracking System Data Mart (HWTS-DATAMART) provides information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000819874
Registry ID:	110002892255
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002892255
Name:	CHINO HILLS FORD SALES INC
Address:	4480 CHINO HILLS PKWY
City,State,Zip:	CHINO, CA 91710

HWTS:

Name:	CHINO HILLS FORD SALES INC
Address:	4480 CHINO HILLS PKWY
Address 2:	Not reported
City,State,Zip:	CHINO, CA 91710
EPA ID:	CAD983658873
Inactive Date:	06/30/2012
Create Date:	02/01/1993
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	4480 CHINO HILLS PKWY
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CHINO, CA 917105602
Owner Name:	CHINO HILLS FORD SALES INC/T.WOODS
Owner Address:	4480 CHINO HILLS PKWY
Owner Address 2:	Not reported
Owner City,State,Zip:	CHINO, CA 917105602
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	WILLIE MARSHALL
Contact Address:	4480 CHINO HILLS PKWY
Contact Address 2:	Not reported

CHINO HILLS FORD SALES INC (Continued) **1000819874**

City,State,Zip: CHINO, CA 917100000
Contact Phone: Not reported
Contact Fax: Not reported
Facility Status: Inactive
Facility Type: PERMANENT
Category: FEDERAL
Latitude: 33.982789
Longitude: -117.706809

NAICS:
EPA ID: CAD983658873
Create Date: 2003-08-29 09:21:34.557
NAICS Code: 44111
NAICS Description: New Car Dealers
Issued EPA ID Date: 1993-02-01 00:00:00
Inactive Date: 2012-06-30 00:00:00
Facility Name: CHINO HILLS FORD SALES INC
Facility Address: 4480 CHINO HILLS PKWY
Facility Address 2: Not reported
Facility City: CHINO
Facility County: Not reported
Facility State: CA
Facility Zip: 917100000

HAZNET:
Name: CHINO HILLS FORD SALES INC
Address: 4480 CHINO HILLS PKWY
Address 2: Not reported
City,State,Zip: CHINO, CA 917100000
Contact: WILLIE MARSHALL
Telephone: 9092622604
Mailing Name: Not reported
Mailing Address: 4480 CHINO HILLS PKWY

Year: 2011
Gepaid: CAD983658873
TSD EPA ID: CAD097030993
CA Waste Code: 491 - Unspecified sludge waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.2085

Year: 2011
Gepaid: CAD983658873
TSD EPA ID: CAD097030993
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.1

Year: 2009
Gepaid: CAD983658873
TSD EPA ID: CAT000613893
CA Waste Code: 252 - Other still bottom waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Tons: 0.1

Year: 2009
Gepaid: CAD983658873
TSD EPA ID: NVT330010000
CA Waste Code: 491 - Unspecified sludge waste
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.1

Year: 2009
Gepaid: CAD983658873
TSD EPA ID: CAT080013352
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.561

Year: 2008
Gepaid: CAD983658873
TSD EPA ID: CAD097030993
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.2

Year: 2007
Gepaid: CAD983658873
TSD EPA ID: CAD097030993
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.1

Year: 2007
Gepaid: CAD983658873
TSD EPA ID: CAT080013352
CA Waste Code: 222 - Oil/water separation sludge
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 5.6295

Year: 2007
Gepaid: CAD983658873
TSD EPA ID: CAT080013352
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.901

Year: 2006
Gepaid: CAD983658873
TSD EPA ID: CAD097030993
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.175

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Click this hyperlink while viewing on your computer to access
52 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2011
Gen EPA ID:	CAD983658873
Shipment Date:	20110218
Creation Date:	4/27/2011 18:30:07
Receipt Date:	20110224
Manifest ID:	008144717JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110218
Creation Date:	4/27/2011 18:30:07
Receipt Date:	20110224
Manifest ID:	008144717JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2085
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Additional Info:

Year:	2009
Gen EPA ID:	CAD983658873
Shipment Date:	20091015
Creation Date:	4/12/2010 18:31:03
Receipt Date:	20091027
Manifest ID:	002169324SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091007
Creation Date:	4/12/2010 18:30:17
Receipt Date:	20091013
Manifest ID:	002169222SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	252 - Oher still bottom waste 261 Polychlorinated biphenyls and material containing PCBs
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D006
Additional Code 3:	D005
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20090811
Creation Date:	10/12/2009 18:30:08

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Receipt Date:	20090819
Manifest ID:	005858846JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D018
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.561
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2008
Gen EPA ID:	CAD983658873
Shipment Date:	20080627
Creation Date:	8/20/2008 18:30:46
Receipt Date:	20080703
Manifest ID:	004407407JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2007
Gen EPA ID:	CAD983658873

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Shipment Date:	20071218
Creation Date:	3/8/2008 18:30:06
Receipt Date:	20071226
Manifest ID:	003558281JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D018
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.255
Waste Quantity:	75
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20071008
Creation Date:	1/8/2008 18:30:57
Receipt Date:	20071017
Manifest ID:	003186287JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D018
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.34
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20070629
Creation Date:	11/3/2007 18:30:36
Receipt Date:	20070629
Manifest ID:	002949830JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	5.6295
Waste Quantity:	1350
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20070402
Creation Date:	8/29/2007 18:30:06
Receipt Date:	20070411
Manifest ID:	002537898JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D018
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.306
Waste Quantity:	90
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20070402
Creation Date:	8/23/2007 18:30:34
Receipt Date:	20070412
Manifest ID:	002537897JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2006
Gen EPA ID:	CAD983658873
Shipment Date:	20061005
Creation Date:	3/30/2007 13:32:55
Receipt Date:	20061012
Manifest ID:	001589580JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060417
Creation Date:	8/1/2006 18:30:52
Receipt Date:	20060421
Manifest ID:	24946592
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.442
Waste Quantity:	130

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060315
Creation Date:	7/5/2006 12:04:15
Receipt Date:	20060315
Manifest ID:	25019606
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.042
Waste Quantity:	10
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060315
Creation Date:	7/5/2006 12:04:15
Receipt Date:	20060315
Manifest ID:	25019606
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.441
Waste Quantity:	105
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060105
Creation Date:	8/10/2006 18:34:27

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Receipt Date:	20060113
Manifest ID:	24837132
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.272
Waste Quantity:	80
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2005
Gen EPA ID:	CAD983658873
Shipment Date:	20050609
Creation Date:	9/16/2005 18:31:41
Receipt Date:	20050616
Manifest ID:	24479439
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050506
Creation Date:	7/21/2005 18:32:26
Receipt Date:	20050506
Manifest ID:	24153545
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL INC
Trans 2 EPA ID:	Not reported

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.09
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050311
Creation Date:	5/27/2005 18:30:29
Receipt Date:	20050311
Manifest ID:	24153289
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.0792
Waste Quantity:	22
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050112
Creation Date:	3/17/2005 18:34:39
Receipt Date:	20050117
Manifest ID:	23762578
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.09

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2004
Gen EPA ID:	CAD983658873
Shipment Date:	20041230
Creation Date:	4/20/2006 18:30:56
Receipt Date:	20050106
Manifest ID:	24019834
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.17
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041223
Creation Date:	3/17/2005 18:34:39
Receipt Date:	20041229
Manifest ID:	24027993
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	D / K - ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041011
Creation Date:	12/31/2004 18:30:54
Receipt Date:	20041020
Manifest ID:	24022922
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	TERIS
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040924
Creation Date:	12/22/2004 18:31:08
Receipt Date:	20040924
Manifest ID:	23762288
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.072
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040816
Creation Date:	1/4/2005 18:32:14
Receipt Date:	20040816
Manifest ID:	23515065
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.378
Waste Quantity:	90
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040810
Creation Date:	1/4/2005 18:33:27
Receipt Date:	20040818
Manifest ID:	23579056
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	TERIS
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.065
Waste Quantity:	130
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040810
Creation Date:	12/22/2004 18:31:08
Receipt Date:	20040819
Manifest ID:	23579055
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	D001
Meth Code:	R01 - Recycler

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Quantity Tons:	0.7506
Waste Quantity:	180
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040730
Creation Date:	11/1/2004 12:36:11
Receipt Date:	20040730
Manifest ID:	23762034
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.09
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040714
Creation Date:	11/1/2004 12:36:11
Receipt Date:	20040728
Manifest ID:	23587393
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	TERIS
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.0625
Waste Quantity:	125
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Shipment Date:	20040604
Creation Date:	10/29/2004 7:40:51
Receipt Date:	20040609
Manifest ID:	22766966
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.162
Waste Quantity:	45
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2003
Gen EPA ID:	CAD983658873

Shipment Date:	20031220
Creation Date:	8/30/2004 14:52:16
Receipt Date:	20031229
Manifest ID:	22581578
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613893
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.018
Waste Quantity:	36
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20031220
Creation Date:	8/30/2004 14:52:16
Receipt Date:	20031220
Manifest ID:	22572710
Trans EPA ID:	TXR000050930

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.3402
Waste Quantity:	81
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20031208
Creation Date:	8/12/2004 8:09:46
Receipt Date:	20031219
Manifest ID:	22828924
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20031204
Creation Date:	8/24/2004 10:00:04
Receipt Date:	20031215
Manifest ID:	23305722
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613893
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Meth Code:	H01 - Transfer Station
Quantity Tons:	0.018
Waste Quantity:	36
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20031106
Creation Date:	8/20/2004 8:27:39
Receipt Date:	20031113
Manifest ID:	22526035
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613893
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.018
Waste Quantity:	36
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20031010
Creation Date:	8/3/2004 15:00:31
Receipt Date:	20031014
Manifest ID:	22768081
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.09
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Shipment Date:	20031008
Creation Date:	8/3/2004 15:00:31
Receipt Date:	20031017
Manifest ID:	22522729
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613893
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.018
Waste Quantity:	36
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20031001
Creation Date:	8/3/2004 15:01:39
Receipt Date:	20031001
Manifest ID:	22517924
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20031001
Creation Date:	8/3/2004 15:01:39
Receipt Date:	20031001
Manifest ID:	22517924
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.504
Waste Quantity:	120
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20030909
Creation Date:	7/29/2004 7:45:24
Receipt Date:	20030911
Manifest ID:	22877565
Trans EPA ID:	TXR000050930
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613893
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.009
Waste Quantity:	18
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2002
Gen EPA ID:	CAD983658873

Shipment Date:	20021224
Creation Date:	5/21/2003 18:32:18
Receipt Date:	20030107
Manifest ID:	22028468
Trans EPA ID:	CAD028277036
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	D001

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Meth Code:	R01 - Recycler
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20021212
Creation Date:	3/27/2003 18:31:27
Receipt Date:	20021220
Manifest ID:	22197300
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.018
Waste Quantity:	36
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20021122
Creation Date:	3/27/2003 18:31:27
Receipt Date:	20021129
Manifest ID:	22146876
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.009
Waste Quantity:	18
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Shipment Date:	20021118
Creation Date:	3/27/2003 18:31:27
Receipt Date:	20021203
Manifest ID:	22041170
Trans EPA ID:	CAD028277036
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20021113
Creation Date:	2/21/2003 10:41:38
Receipt Date:	20021114
Manifest ID:	21979526
Trans EPA ID:	CAD982440364
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.1368
Waste Quantity:	38
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20021107
Creation Date:	2/7/2003 18:31:45
Receipt Date:	20021107
Manifest ID:	21939055
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.378
Waste Quantity:	90
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20021107
Creation Date:	2/7/2003 18:31:45
Receipt Date:	20021107
Manifest ID:	21939055
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20021104
Creation Date:	3/16/2007 18:30:20
Receipt Date:	20021115
Manifest ID:	22040997
Trans EPA ID:	CAD028277036
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20021030
Creation Date:	2/21/2003 10:41:38
Receipt Date:	20021108
Manifest ID:	21912898
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.018
Waste Quantity:	36
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20021001
Creation Date:	2/11/2003 18:31:24
Receipt Date:	20021010
Manifest ID:	21905581
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.009
Waste Quantity:	18
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2001
Gen EPA ID:	CAD983658873

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Shipment Date:	20011226
Creation Date:	2/20/2002 0:00:00
Receipt Date:	20020102
Manifest ID:	21329957
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613893
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20011212
Creation Date:	2/13/2002 0:00:00
Receipt Date:	20011212
Manifest ID:	21319944
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0
Waste Quantity:	8
Quantity Unit:	*
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20011212
Creation Date:	2/13/2002 0:00:00
Receipt Date:	20011212
Manifest ID:	21319944
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.4116
Waste Quantity:	98
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20011205
Creation Date:	2/19/2002 0:00:00
Receipt Date:	20011210
Manifest ID:	21319884
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613893
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.008
Waste Quantity:	16
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20011112
Creation Date:	1/16/2002 0:00:00
Receipt Date:	20011116
Manifest ID:	21312572
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.008
Waste Quantity:	16
Quantity Unit:	P

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20011102
Creation Date:	12/17/2001 0:00:00
Receipt Date:	20011106
Manifest ID:	20823843
Trans EPA ID:	CAD982440364
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.126
Waste Quantity:	35
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20011016
Creation Date:	1/16/2002 0:00:00
Receipt Date:	20011023
Manifest ID:	21396063
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613893
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.018
Waste Quantity:	36
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20011002
Creation Date:	1/16/2002 0:00:00
Receipt Date:	20011010

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Manifest ID:	21352809
Trans EPA ID:	CAD028277036
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20010918
Creation Date:	12/17/2001 0:00:00
Receipt Date:	20010925
Manifest ID:	21455647
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0205
Waste Quantity:	41
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20010918
Creation Date:	11/1/2001 0:00:00
Receipt Date:	20010918
Manifest ID:	21455867
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.5418
Waste Quantity:	129
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

San Bern. Co. Permit:

Name:	CHINO HILLS FORD
Address:	4480 CHINO HILLS PKY
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0013701
Owner:	WB Chino Hills Fd, LLC.
Permit Number:	PT0024048
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	02/28/2024

Name:	CHINO HILLS FORD
Address:	4480 CHINO HILLS PKY
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0013701
Owner:	WB Chino Hills Fd, LLC.
Permit Number:	PT0024047
Permit Category:	LARGE QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	02/28/2024

Name:	CHINO HILLS FORD
Address:	4480 CHINO HILLS PKY
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0013701
Owner:	WB Chino Hills Fd, LLC.
Permit Number:	PT0024049
Permit Category:	APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status:	ACTIVE
Expiration Date:	02/28/2024

Name:	CHINO HILLS FORD SALES, INC
Address:	4480 CHINO HILLS PKY
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0001925
Owner:	CHINO AUTOMOTIVE INC.
Permit Number:	PT0002813
Permit Category:	HAZARDOUS WASTE GENERATOR - 26-50 EMPLOYEES
Facility Status:	INACTIVE
Expiration Date:	08/31/2010

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Name: CHINO HILLS FORD SALES, INC
Address: 4480 CHINO HILLS PKY
City,State,Zip: CHINO, CA 91710
Region: SAN BERNARDINO
Facility ID: FA0001925
Owner: CHINO AUTOMOTIVE INC.
Permit Number: PT0002812
Permit Category: HAZMAT HANDLER 26-50 EMPLOYEES (W/GEN PRMT)
Facility Status: INACTIVE
Expiration Date: 08/31/2010

Name: CHINO HILLS FORD SALES, INC
Address: 4480 CHINO HILLS PKY
City,State,Zip: CHINO, CA 91710
Region: SAN BERNARDINO
Facility ID: FA0001925
Owner: CHINO AUTOMOTIVE INC.
Permit Number: PT0002817
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: INACTIVE
Expiration Date: 08/31/2010

CERS:
Name: CHINO HILLS FORD
Address: 4480 CHINO HILLS PKY
City,State,Zip: CHINO, CA 91710
Site ID: 18636
CERS ID: 10311958
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 18636
Site Name: CHINO HILLS FORD
Violation Date: 02-19-2014
Citation: 22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130
Violation Description: Failure to properly handle, manage, label, and recycle used oil and fuel filters.
Violation Notes: Returned to compliance on 07/07/2017.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 18636
Site Name: CHINO HILLS FORD
Violation Date: 07-07-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/21/2017. Failure to inspect Hazardous Waste container storage areas weekly (CCR 66265.174) Facility staff was unable to produce documentation that weekly inspection of the hazardous waste storage area are performed.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Site ID:	18636
Site Name:	CHINO HILLS FORD
Violation Date:	11-02-2020
Citation:	22 CCR 15 66265.192(a) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.192(a)
Violation Description:	Failure to obtain and maintain a written assessment reviewed and certified by an independent, qualified, professional engineer prior to placing the tank system in service. The written assessment shall state that, the new hazardous waste tank system has sufficient structural integrity, is acceptable for the transferring, storing and treating of hazardous waste, and that the tanks and containment system including the foundation, structural support, seams, connections, and pressure controls (if applicable) are suitably designed to meet the regulation.
Violation Notes:	OBSERVATION: At time of inspection, a Professional Engineer hazardous waste tank assessment was not made available for review. CORRECTIVE ACTION: Submit a copy of the hazardous waste tank assessment to this Division.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,

Site ID:	18636
Site Name:	CHINO HILLS FORD
Violation Date:	11-02-2020
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to conduct spill prevention briefing for oil-handling personnel at least once a year to assure adequate understanding of the SPCC Plan.
Violation Notes:	OBSERVATION: At time of inspection, the spill prevention briefings were not being conducted in accordance to the SPCC plan. CORRECTIVE ACTION: Submit a signed statement indicating that spill prevention briefings will be conducted and documented.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS,

Site ID:	18636
Site Name:	CHINO HILLS FORD
Violation Date:	11-02-2020
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	OBSERVATION: At time of inspection, the last complete inventory submitted to CERS is not consistent with what was observed at time of inspection. (1) 55 gal drum of waste paper filters and (1) 30 gal drum of waste fuel was not submitted to CERS. CORRECTIVE ACTION: Submit an accurate and complete hazardous materials inventory into the California Environmental Reporting System (CERS).
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	18636
Site Name:	CHINO HILLS FORD

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Violation Date:	11-29-2023
Citation:	22 CCR 15 66265.192(h) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.192(h)
Violation Description:	Failure of generator to obtain assessment or reassessment every five (5) years or the remaining service life of the tank system, as stated in the engineer's assessment, whichever is less. This assessment applies to onground or aboveground tank systems containing only non-RCRA hazardous wastes generated onsite, or for a small quantity generator onground or aboveground tank systems containing RCRA hazardous wastes generated onsite.
Violation Notes:	OBSERVATION: Observed the facility to not have a n Engineer certified waste tank assessment available for review. CORRECTIVE ACTION: Ensure all waste tanks are assessed by a professional engineer at least every (5) years. Provide the most current waste tank assessment to the inspector within 30 days of this inspection. Sign and return the Certificate of Compliance indicating the waste tank assessment has been performed and provided to the inspector.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	18636
Site Name:	CHINO HILLS FORD
Violation Date:	11-02-2020
Citation:	HSC 6.67 25270.4.5 (a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5 (a)
Violation Description:	Failure to complete a review and evaluation of the SPCC Plan at least once every five years, document the completion of the review, and sign a statement as to whether the SPCC Plan will be amended.
Violation Notes:	Returned to compliance on 12/06/2022. OBSERVATION: At time of inspection, the SPCC plan on file was last certified on 4/11/13. CORRECTIVE ACTION: Submit a signed statement indicating that the 5-year review has been performed, documented and SPCC plan amended if necessary.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	18636
Site Name:	CHINO HILLS FORD
Violation Date:	02-19-2014
Citation:	HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description:	Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes:	Returned to compliance on 03/10/2014.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	18636
Site Name:	CHINO HILLS FORD
Violation Date:	07-07-2017
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance

CHINO HILLS FORD SALES INC (Continued) **1000819874**

	with the requirements.
Violation Notes:	Returned to compliance on 07/07/2017. Observed the accumulation start date to be missing from the hazardous waste labeling affixed to the (1) 55 gallon drum of drained used oil filters. Associated violation was corrected on site.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	18636
Site Name:	CHINO HILLS FORD
Violation Date:	07-07-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/21/2017. Failure to operate and maintain facility to prevent a fire, spill or release (CCR 66265.31) Observed oily water in the secondary containment surrounding (1) 500 gallon aboveground storage tank storage tank. Compliance Requirement: Have oily water properly disposed of, and include the disposal record when returning the signed Certificate of Compliance.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	18636
Site Name:	CHINO HILLS FORD
Violation Date:	11-02-2020
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to test or inspect each aboveground container for integrity based on industry standards as discussed in the SPCC Plan: 1. On a regular schedule. 2. After making material repairs. 3. Use non-destructive testing. 4. Inspect each container s supports, foundations, and outside for signs of deterioration, discharges, or accumulation of oil inside diked areas.
Violation Notes:	OBSERVATION: The SPCC plan on file states that facility will conduct monthly inspections and have the inspections available for 3 years. It was determined that the inspections were not being conducted or documented. CORRECTIVE ACTION: Submit a signed statement indicating that tests and inspections of containers are being properly conducted on a regular schedule or after repair.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	18636
Site Name:	CHINO HILLS FORD
Violation Date:	11-02-2020
Citation:	22 CCR 15 66265.195(c) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.195(c)
Violation Description:	Failure to conduct and document inspections of hazardous waste tank systems each operating day and retain records of those inspections at the facility.
Violation Notes:	OBSERVATION: At time of inspection, the daily inspections of the hazardous waste aboveground storage tanks were not conducted and documented. CORRECTIVE ACTION: Submit a signed statement indicating

CHINO HILLS FORD SALES INC (Continued) **1000819874**

	that daily inspections will be conducted and documented.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	18636
Site Name:	CHINO HILLS FORD
Violation Date:	11-02-2020
Citation:	22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16
Violation Description:	Failure to provide employees with hazardous waste training program of class room instructions or on-the-job training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility. The records shall include the following: the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job; a written job description for each position, duties of facility personnel assigned to each position, and a written description of the type and amount of both introductory and continuing training that will be given to each person filling a position.
Violation Notes:	OBSERVATION: At time of inspection, annual hazardous waste training documents were not available for review. CORRECTIVE ACTION: Submit a signed statement that hazardous waste training will be provided to all employees on an annual basis and kept onsite and readily available for review.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	18636
Site Name:	CHINO HILLS FORD
Violation Date:	07-07-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/21/2017. Failure to manage hazardous waste lawfully (CHSC 25154) Observed oily water in the secondary containment surrounding (1) 500 gallon aboveground storage tank storage tank. Compliance Requirement: Have oily water properly disposed of, and include the disposal record when returning the signed Certificate of Compliance.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	18636
Site Name:	CHINO HILLS FORD
Violation Date:	11-29-2023
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Violation Notes: Returned to compliance on 12/01/2023. OBSERVATION: At the time of the inspection observed latex paint waste, acetone waste, and used sandpaper/mixing cups on site that were not included in the Hazardous Materials Inventory reported to CERS. CORRECTIVE ACTION: Refer to the front page of the report for an accurate reportable inventory. Ensure the reported inventory is inclusive of all hazardous materials over the threshold of 55-gallons of liquid, 500-pounds of solids, 200-cubic feet of compressed flammable gas, and 1,000 cubic feet of compressed non-flammable gas. Update the hazardous materials
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 18636
Site Name: CHINO HILLS FORD
Violation Date: 11-29-2023
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 12/01/2023. OBSERVATION: At the time of the inspection, observed the previous annual review/certification of the Hazardous Materials Business Plan to have taken place 12/06/2022. CORRECTIVE ACTION: Electronically submit the Hazardous Materials Business Plan to CERS within 30 days of this inspection. Sign and return the Certificate of Compliance to the inspector within 30 days of the inspection indicating the Hazardous Materials Business Plan has been electronically submitted to CERS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-19-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-19-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION.
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-07-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION/ POST INSPECTION

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-02-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-19-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-02-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-29-2023
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-07-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION/ POST INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-29-2023
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-07-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION/ POST INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-02-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-29-2023
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS,

Enforcement Action:
Site ID: 18636
Site Name: CHINO HILLS FORD
Site Address: 4480 CHINO HILLS PKY
Site City: CHINO
Site Zip: 91710
Enf Action Date: 02-19-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 18636
Site Name: CHINO HILLS FORD
Site Address: 4480 CHINO HILLS PKY
Site City: CHINO
Site Zip: 91710
Enf Action Date: 02-19-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Site ID: 18636
Site Name: CHINO HILLS FORD
Site Address: 4480 CHINO HILLS PKY

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Site City: CHINO
Site Zip: 91710
Enf Action Date: 07-07-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: Tom Kirk
Entity Title: Parts and Service Director
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: CHINO FORD LLC.
Entity Title: Not reported
Affiliation Address: 4480 CHINO HILLS PKY
Affiliation City: CHINO
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91710
Affiliation Phone: (909) 203-5700,

Affiliation Type Desc: Operator
Entity Name: ALI KHAN
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 203-5700,

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401,

Affiliation Type Desc: Parent Corporation
Entity Name: CHINO HILLS FORD
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported

CHINO HILLS FORD SALES INC (Continued) **1000819874**

Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Document Preparer
Entity Name:	Chris Mamoulelis, Celly Services, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Tom Kirk
Entity Title:	Not reported
Affiliation Address:	4480 CHINO HILLS PWY
Affiliation City:	CHINO HILLS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91710
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	4480 CHINO HILLS PKY
Affiliation City:	CHINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91710
Affiliation Phone:	,

A5 **CHINO HIILLS FORD SALES, INC** **AST** **A100345636**
SE **4480 CHINO HILLS PKWY** **N/A**
< 1/8 **CHINO, CA**
0.109 mi.
578 ft. **Site 5 of 6 in cluster A**

Relative: AST:
Lower

Name:	CHINO HIILLS FORD SALES, INC
Address:	4480 CHINO HILLS PKWY
City/Zip:	CHINO,
Certified Unified Program Agencies:	San Bernardino
Owner:	CHINO HILLS FORD SALES, INC
Total Gallons:	1,825
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported

Actual:
632 ft.

CHINO HIILLS FORD SALES, INC (Continued) **A100345636**

Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

A6 **DEALER DIRECT DETAIL CHINO HILLS FORD** **San Bern. Co. Permit** **S128926446**
SE **4480 CHINO HILLS PKYBACK OF BUILDING** **N/A**
< 1/8 **CHINO, CA 91710**
0.109 mi.
578 ft. **Site 6 of 6 in cluster A**

Relative: **Lower**

Actual: **632 ft.**

San Bern. Co. Permit:

Name:	DEALER DIRECT DETAIL CHINO HILLS FORD
Address:	4480 CHINO HILLS PKYBACK OF BUILDING
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0019300
Owner:	DEALER DIRECT DETAIL LLC
Permit Number:	PT0041657
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status:	ACTIVE
Expiration Date:	05/31/2024

B7 **CBS INTERIM PARKING FACILITY** **CERS HAZ WASTE** **S118496999**
East **14740 RAMONA AVENUE** **NPDES** **N/A**
< 1/8 **CHINO, CA 91764** **San Bern. Co. Permit**
0.116 mi. **CIWQS**
613 ft. **Site 1 of 6 in cluster B** **CERS**

Relative: **Lower**

Actual: **632 ft.**

CERS HAZ WASTE:

Name:	CREATIVE BUS SALES
Address:	14740 RAMONA AVE
City,State,Zip:	CHINO, CA 91710
Site ID:	365751
CERS ID:	10652635
CERS Description:	Hazardous Waste Generator

NPDES:

Name:	CBS INTERIM PARKING FACILITY
Address:	14740 RAMONA AVENUE
City,State,Zip:	CHINO, CA 91764
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported

CBS INTERIM PARKING FACILITY (Continued) **S118496999**

Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36C381002
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	09/14/2018
Operator Name:	T&T Investments LLC
Operator Address:	14740 Ramona Avenue
Operator City:	Chino
Operator State:	California
Operator Zip:	91710

NPDES as of 03/2018:

NPDES Number:	CAS000002
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	485335
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36C381002
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	09/07/2017
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	T&T Investments LLC
Discharge Address:	14740 Ramona Avenue
Discharge City:	Chino
Discharge State:	California
Discharge Zip:	91710
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

CBS INTERIM PARKING FACILITY (Continued) **S118496999**

Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

San Bern. Co. Permit:

Name:	CREATIVE BUS SALES
Address:	14740 RAMONA AVE
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0016587
Owner:	TONY MATIJEVICH
Permit Number:	PT0035742
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	02/28/2025

Name:	CREATIVE BUS SALES
Address:	14740 RAMONA AVE
City,State,Zip:	CHINO, CA 91710

CBS INTERIM PARKING FACILITY (Continued) **S118496999**

Region: SAN BERNARDINO
Facility ID: FA0016587
Owner: TONY MATIJEVICH
Permit Number: PT0035741
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 02/28/2025

Name: CREATIVE BUS SALES
Address: 14740 RAMONA AVE
City,State,Zip: CHINO, CA 91710
Region: SAN BERNARDINO
Facility ID: FA0016587
Owner: TONY MATIJEVICH
Permit Number: PT0039322
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: INACTIVE
Expiration Date: 02/28/2020

CIWQS:

Name:	CBS INTERIM PARKING FACILITY
Address:	14740 RAMONA AVENUE
City,State,Zip:	CHINO, CA 91764
Agency:	T&T Investments LLC
Agency Address:	14740 Ramona Avenue, Chino, CA 91710
Place/Project Type:	Construction - Commercial
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	8 36C381002
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	09/07/2017
Termination Date:	09/04/2018
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.98507
Longitude:	-117.70752

CERS:

Name:	CREATIVE BUS SALES
Address:	14740 RAMONA AVE
City,State,Zip:	CHINO, CA 91710
Site ID:	365751
CERS ID:	10652635
CERS Description:	Chemical Storage Facilities

Violations:
Site ID: 365751

CBS INTERIM PARKING FACILITY (Continued) **S118496999**

Site Name:	CREATIVE BUS SALES
Violation Date:	02-11-2016
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 03/28/2016.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	365751
Site Name:	CREATIVE BUS SALES
Violation Date:	03-05-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 08/20/2019. OBSERVATION: Facility failed to update the business activities page to reflect that they are Aboveground Petroleum Storage (APSA). CORRECTIVE ACTION: Submit the updated business plan information into the California Environmental Reporting System (CERS).
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	365751
Site Name:	CREATIVE BUS SALES
Violation Date:	02-15-2022
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	Returned to compliance on 04/22/2022. OBSERVATION: At the time of inspection, observed (1) 55 gallon drum of drained used oil filters and used paper filters. CORRECTIVE ACTION: Separate the drained used oil filters from the used paper filters and submit a photo tho the Division. Ensure that all used paper filters are stored separately from drained used oil filters.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	365751
Site Name:	CREATIVE BUS SALES
Violation Date:	02-11-2016
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 03/28/2016. Failure to manage hazardous waste lawfully (CHSC 25154)
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,

CBS INTERIM PARKING FACILITY (Continued) **S118496999**

Site ID: 365751
Site Name: CREATIVE BUS SALES
Violation Date: 03-05-2019
Citation: 40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description: Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes: Returned to compliance on 04/17/2019. OBSERVATION: Observed (1) 55 gallon drum of used antifreeze open when not in use. CORRECTIVE ACTION: Close all the hazardous waste containers and submit photos to the CUPA demonstrating that the container listed above has been properly closed.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 365751
Site Name: CREATIVE BUS SALES
Violation Date: 03-05-2019
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 08/30/2019. OBSERVATION: (2) 55 gallon drums of used antifreeze were observed on site that were not reported into CERS. CORRECTIVE ACTION: Submit an accurate and complete hazardous materials inventory via CERS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 365751
Site Name: CREATIVE BUS SALES
Violation Date: 02-11-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 03/28/2016. Failure to obtain a CUPA Hazardous Waste Generator Permit (SBCC 23.0602(b)(1))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 365751
Site Name: CREATIVE BUS SALES
Violation Date: 02-15-2022
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 02/17/2022. OBSERVATION: The last business

CBS INTERIM PARKING FACILITY (Continued) **S118496999**

plan certification by this facility via CERS was dated 09/03/2019. CORRECTIVE ACTION: Certify the business plan via CERS. The CERS ID is 10652635
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 365751
Site Name: CREATIVE BUS SALES
Violation Date: 03-05-2019
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes: Returned to compliance on 08/20/2019. OBSERVATION: Facility failed to electronically update their CERS submittal to reflect they are Aboveground Petroleum Storage (APSA). CORRECTIVE ACTION: Submit the updated business plan information via CERS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 365751
Site Name: CREATIVE BUS SALES
Violation Date: 03-05-2019
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 04/17/2019. OBSERVATION: (1) 55 gallon drum of used antifreeze was observed without a hazardous waste label. CORRECTIVE ACTION: Properly label all hazardous waste containers and submit a photo to the CUPA demonstrating that the container listed above has been properly labeled.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 365751
Site Name: CREATIVE BUS SALES
Violation Date: 02-11-2016
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 03/28/2016. Hazardous waste accumulation time exceeded (CCR 66262.34(a))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

CBS INTERIM PARKING FACILITY (Continued) **S118496999**

Site ID:	365751
Site Name:	CREATIVE BUS SALES
Violation Date:	03-05-2019
Citation:	HSC 6.67 25270.6(b) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.6(b)
Violation Description:	Failure to pay the APSA Program fee.
Violation Notes:	Returned to compliance on 03/13/2019. OBSERVATION: Facility stores over 1,320 gallons of petroleum based products on site and is subject to APSA. Facility has not obtained a current APSA permit. CORRECTIVE ACTION: Submit payment for all required permits upon receipt of the invoice.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	365751
Site Name:	CREATIVE BUS SALES
Violation Date:	02-15-2022
Citation:	40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Returned to compliance on 02/15/2022. OBSERVATION: At the time of the inspection, observed (2) 55 gallon drums of used oil was open when not in use. CORRECTED ON SITE: Operator corrected the violation by closing the drums during the inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	365751
Site Name:	CREATIVE BUS SALES
Violation Date:	02-15-2022
Citation:	HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description:	Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Notes:	Returned to compliance on 04/25/2022. OBSERVATION: At the time of inspection, observed hazardous waste manifest indicating the waste oil and waste antifreeze to have been removed 07/08/21. CORRECTIVE ACTION: Dispose of hazardous waste that has been stored over the accumulation time limit within 30 days. Submit copies of the hazardous waste disposal records to this Division.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,

CBS INTERIM PARKING FACILITY (Continued) **S118496999**

Site ID:	365751
Site Name:	CREATIVE BUS SALES
Violation Date:	02-11-2016
Citation:	HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description:	Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 03/28/2016.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	365751
Site Name:	CREATIVE BUS SALES
Violation Date:	02-11-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 03/28/2016. Failure to transport hazardous waste under a Manifest (CCR 66262.20)
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,

Site ID:	365751
Site Name:	CREATIVE BUS SALES
Violation Date:	02-15-2022
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 02/15/2022. OBSERVATION: At the time of the inspection, observed (2) 55 gallon drums of waste oil without the accumulation start date, (1) 55 gallon drum of waste antifreeze, and (3) 55 gallon drums of waste diesel missing hazardous waste label. CORRECTED ON SITE: Operator corrected the violation by adding a new hazardous waste label with all the required information during the inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,

Site ID:	365751
Site Name:	CREATIVE BUS SALES
Violation Date:	02-11-2016
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Abandonment/Illegal Disposal/Unauthorized Treatment - General
Violation Notes:	Returned to compliance on 03/28/2016. Failure to transport Hazardous Waste with a valid registration (CHSC 25163(a))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW

CBS INTERIM PARKING FACILITY (Continued) **S118496999**

Violation Source:	CERS,
Site ID:	365751
Site Name:	CREATIVE BUS SALES
Violation Date:	02-15-2022
Citation:	Un-Specified
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General Local Ordinance
Violation Notes:	Returned to compliance on 03/21/2022. OBSERVATION: At the time of inspection, observed (2) 20 gallon drum parts washers not included in the CERS inventory reporting. CORRECTIVE ACTION: Update the CERS inventory, the CERS ID is 10652635
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	365751
Site Name:	CREATIVE BUS SALES
Violation Date:	02-15-2022
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 03/21/2022. OBSERVATION: At the time of the inspection, observed (13) approxiamtley approximately 8 gallon propane cylinders and (3) 55 gallon drums of waste diesel that were not included in the CERS inventory. CORRECTIVE ACTION: Update the hazardous materials to the inventory via CERS. The CERS ID is 10652635.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	365751
Site Name:	CREATIVE BUS SALES
Violation Date:	03-05-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 09/03/2019. OBSERVATION: Facility failed to annually submit a compete business plan into CERS. Last submittal dated 02/14/2018. CORRECTIVE ACTION: Review and certify the business plan via CERS. Your CERS ID number is 10652635.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	365751
Site Name:	CREATIVE BUS SALES
Violation Date:	03-05-2019
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan.

CBS INTERIM PARKING FACILITY (Continued) **S118496999**

Violation Notes: Returned to compliance on 05/10/2019. OBSERVATION: This facility stores over 1,320 gallons of petroleum based products on site. At the time of the inspection, facility had not prepared an SPCC Plan. CORRECTIVE ACTION: Prepare and implement an SPCC Plan. Submit a signed statement indicating that an SPCC plan has been prepared.
Violation Division: San Bernardino County Fire Department
Violation Program: APSA
Violation Source: CERS,

Site ID: 365751
Site Name: CREATIVE BUS SALES
Violation Date: 02-11-2016
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 03/28/2016. Failure to establish a Contingency Plan (CCR 66265.51(a))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 365751
Site Name: CREATIVE BUS SALES
Violation Date: 02-11-2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 03/28/2016. Failure to obtain a CUPA Hazardous Materials Handler permit (SBCC 23.0602(a))
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-05-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-15-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: FEATHER LIGHT INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-02-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: CLOSURE INSPECTION

CBS INTERIM PARKING FACILITY (Continued) **S118496999**

Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-15-2022
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-05-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-15-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: FEATHERLIGHT INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-11-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: CREATIVE BUS INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-11-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: CREATIVE BUS INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-15-2022
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

CBS INTERIM PARKING FACILITY (Continued) **S118496999**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-05-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-15-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: FEATHER LIGHT INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-02-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: CLOSURE INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 365751
Site Name: CREATIVE BUS SALES
Site Address: 14740 RAMONA AVE
Site City: CHINO
Site Zip: 91710
Enf Action Date: 02-11-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 365751
Site Name: CREATIVE BUS SALES
Site Address: 14740 RAMONA AVE
Site City: CHINO
Site Zip: 91710
Enf Action Date: 02-11-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Coordinates:
Site ID: 365751

CBS INTERIM PARKING FACILITY (Continued) **S118496999**

Facility Name:	CREATIVE BUS SALES
Env Int Type Code:	HWG
Program ID:	10652635
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	33.985010
Longitude:	-117.707540

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,

Affiliation Type Desc:	Identification Signer
Entity Name:	Stephen Boyce
Entity Title:	Customer Service and Warranty Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Property Owner
Entity Name:	ANTHONY MATIJEVICH, JR.
Entity Title:	Not reported
Affiliation Address:	14740 Ramona Ave
Affiliation City:	Chino
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91710
Affiliation Phone:	(909) 465-5528,

Affiliation Type Desc:	Operator
Entity Name:	Creative Bus Sales
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 465-5528,

Affiliation Type Desc:	Document Preparer
Entity Name:	KPA, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

CBS INTERIM PARKING FACILITY (Continued) **S118496999**

Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: Stephen Boyce
Entity Title: Not reported
Affiliation Address: 14740 Ramona Ave
Affiliation City: Chino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91710
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 14740 Ramona Ave
Affiliation City: Chino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91710
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: ANTHONY MATIJEVICH, JR.
Entity Title: Not reported
Affiliation Address: 14740 Ramona Ave
Affiliation City: Chino
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91710
Affiliation Phone: (909) 465-8528,

Affiliation Type Desc: Parent Corporation
Entity Name: CREATIVE BUS SALES, INC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

B8 **CREATIVE BUS SALES INC** **RCRA NonGen / NLR** **1024850816**
East **14740 RAMONA AVE** **CAL000408763**
< 1/8 **CHINO, CA 91710**
0.116 mi.
613 ft. **Site 2 of 6 in cluster B**

Relative: RCRA Listings:
Lower
Actual: Date Form Received by Agency: 20150724
632 ft. Handler Name: Creative Bus Sales Inc
Handler Address: 14740 Ramona Ave
Handler City,State,Zip: CHINO, CA 91710
EPA ID: CAL000408763
Contact Name: MICK HUGHES
Contact Address: 14740 RAMONA AVE
Contact City,State,Zip: CHINO, CA 91710

CREATIVE BUS SALES INC (Continued) **1024850816**

Contact Telephone:	909-465-5528
Contact Fax:	909-465-5529
Contact Email:	MICKH@CREATIVEBUSSALES.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	14740 RAMONA AVE
Mailing City,State,Zip:	CHINO, CA 91710
Owner Name:	Creative Bus Sales Inc
Owner Type:	Other
Operator Name:	Mick Hughes
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180906
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No

CREATIVE BUS SALES INC (Continued) **1024850816**

Manifest Broker: No
Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: CREATIVE BUS SALES INC
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 13501 BENSON AVE
Owner/Operator City,State,Zip: CHINO, CA 91710-5232
Owner/Operator Telephone: 909-465-5528
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MICK HUGHES
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 14740 RAMONA AVE
Owner/Operator City,State,Zip: CHINO, CA 91710
Owner/Operator Telephone: 909-465-5528
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20150724
Handler Name: CREATIVE BUS SALES INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 44111
NAICS Description: NEW CAR DEALERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B9 **SATURN OF CHINO VALLEY** **RCRA-SQG** **1001815704**
East **14740 RAMONA AVE** **FINDS** **CAR000059410**
< 1/8 **CHINO, CA 91710** **ECHO**
0.116 mi.
613 ft. **Site 3 of 6 in cluster B**

Relative: **Lower**
Actual: **632 ft.**

RCRA Listings:

Date Form Received by Agency:	19991122
Handler Name:	Saturn Of Chino Valley
Handler Address:	14740 Ramona Ave
Handler City,State,Zip:	CHINO, CA 91710
EPA ID:	CAR000059410
Contact Name:	GEORGE BOLLMAN
Contact Address:	14740 RAMONA AVE
Contact City,State,Zip:	CHINO, CA 91710
Contact Telephone:	909-393-5500
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	14740 RAMONA AVE
Mailing City,State,Zip:	CHINO, CA 91710
Owner Name:	George Bollman
Owner Type:	Private
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

SATURN OF CHINO VALLEY (Continued) **1001815704**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20021007
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: GEORGE BOLLMAN	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14740 RAMONA AVE
Owner/Operator City,State,Zip:	CHINO, CA 91710
Owner/Operator Telephone:	909-393-5500
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19991122
Handler Name: SATURN OF CHINO VALLEY	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations:	No Violations Found

SATURN OF CHINO VALLEY (Continued) **1001815704**

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110006486481

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1001815704
Registry ID:	110006486481
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110006486481
Name:	SATURN OF CHINO VALLEY
Address:	14740 RAMONA AVE
City,State,Zip:	CHINO, CA 91710

B10 **CHINO VALLEY FEATHERLITE** **AST** **S106084420**
East **14740 RAMONA AVE** **San Bern. Co. Permit** **N/A**
< 1/8 **CHINO, CA 91710**
0.116 mi.
613 ft. **Site 4 of 6 in cluster B**

Relative:
Lower

Actual:
632 ft.

AST:

Name:	CHINO VALLEY SUBARU FEATHERLITE
Address:	14740 RAMONA
City/Zip:	CHINO,
Certified Unified Program Agencies:	San Bernardino
Owner:	LINMATT INC
Total Gallons:	1,430
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported

CHINO VALLEY FEATHERLITE (Continued) **S106084420**

Property Owner Phone: Not reported
Property Owner Mailing Address: Not reported
Property Owner City: Not reported
Property Owner Stat : Not reported
Property Owner Zip Code: Not reported
Property Owner Country: Not reported
EPAID: Not reported

San Bern. Co. Permit:
Name: CHINO VALLEY FEATHERLITE
Address: 14740 RAMONA AVE
City,State,Zip: CHINO, CA 91710
Region: SAN BERNARDINO
Facility ID: FA0011662
Owner: LINMATT INC
Permit Number: PT0020373
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: INACTIVE
Expiration Date: 11/30/2014

Name: CHINO VALLEY FEATHERLITE
Address: 14740 RAMONA AVE
City,State,Zip: CHINO, CA 91710
Region: SAN BERNARDINO
Facility ID: FA0011662
Owner: LINMATT INC
Permit Number: PT0020199
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 11/30/2014

Name: CHINO VALLEY FEATHERLITE
Address: 14740 RAMONA AVE
City,State,Zip: CHINO, CA 91710
Region: SAN BERNARDINO
Facility ID: FA0011662
Owner: LINMATT INC
Permit Number: PT0020200
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 11/30/2014

B11 **FLATIRON WEST, INC.** **RCRA NonGen / NLR** **1027202246**
ENE **14726 RAMONA AVE, SUITE 300** **CAC003166120**
1/8-1/4 **CHINO, CA 91710**
0.137 mi.
721 ft. **Site 5 of 6 in cluster B**

Relative: **Lower**
Actual: **629 ft.**

RCRA Listings:
Date Form Received by Agency: 20220314
Handler Name: Flatiron West, Inc.
Handler Address: 14726 Ramona Ave, Suite 300
Handler City,State,Zip: CHINO, CA 91710
EPA ID: CAC003166120
Contact Name: NATHAN HASTON
Contact Address: 14726 RAMONA AVE, SUITE 300
Contact City,State,Zip: CHINO, CA 91710

FLATIRON WEST, INC. (Continued) **1027202246**

Contact Telephone:	909-727-7656
Contact Fax:	Not reported
Contact Email:	EVA@WESENV.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	14726 RAMONA AVE, SUITE 300
Mailing City,State,Zip:	CHINO, CA 91710
Owner Name:	Flatiron West, Inc.
Owner Type:	Other
Operator Name:	Nathan Haston
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220314
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No

FLATIRON WEST, INC. (Continued) **1027202246**

Manifest Broker: No
Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: NATHAN HASTON
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 14726 RAMONA AVE, SUITE 300
Owner/Operator City,State,Zip: CHINO, CA 91710
Owner/Operator Telephone: 909-727-7656
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: FLATIRON WEST, INC.
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 14726 RAMONA AVE, SUITE 300
Owner/Operator City,State,Zip: CHINO, CA 91710
Owner/Operator Telephone: 909-727-7656
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20220314
Handler Name: FLATIRON WEST, INC.
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 237130
NAICS Description: POWER AND COMMUNICATION LINE AND RELATED STRUCTURES CONSTRUCTION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B12 **AT&T MOBILITY - CHINO SOUTH (USID12349)** **San Bern. Co. Permit** **S104764881**
ENE **14726 RAMONA AVE STE 101** **CERS** **N/A**
1/8-1/4 **CHINO, CA 92310**
0.137 mi.
721 ft. **Site 6 of 6 in cluster B**

Relative:
Lower

Actual:
629 ft.

San Bern. Co. Permit:

Name:	AT&T MOBILITY - CHINO SOUTH (USID12349)
Address:	14726 RAMONA AVE STE 101
City,State,Zip:	CHINO, CA 92310
Region:	SAN BERNARDINO
Facility ID:	FA0008982
Owner:	New Cingular Wireless PCS, LLC dba AT&T Mobility
Permit Number:	PT0015928
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status:	ACTIVE
Expiration Date:	08/31/2024

Name:	U.S. HEALTHWORKS
Address:	14726 RAMONA AVE 110
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0001926
Owner:	U.S. Heathlworks
Permit Number:	PT0007418
Permit Category:	CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	07/31/2010

CERS:

Name:	AT&T MOBILITY - CHINO SOUTH (USID12349)
Address:	14726 RAMONA AVE STE 101
City,State,Zip:	CHINO, CA 92310
Site ID:	357384
CERS ID:	10049419
CERS Description:	Chemical Storage Facilities

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-11-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-19-2020
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-31-2016
Violations Found:	No

AT&T MOBILITY - CHINO SOUTH (USID12349) (Continued) **S104764881**

Eval Type: Routine done by local agency
Eval Notes: routine inspection
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-12-2023
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HMBEP INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401,

Affiliation Type Desc: Environmental Contact
Entity Name: AT&T EH&S Hotline - Option #1
Entity Title: Not reported
Affiliation Address: 311 S. Akard Street, Floor 12
Affiliation City: Dallas
Affiliation State: TX
Affiliation Country: Not reported
Affiliation Zip: 75202
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation
Entity Name: AT&T Mobility
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Document Preparer
Entity Name: Peter Burnell, Sigma Consultants, Inc.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address

AT&T MOBILITY - CHINO SOUTH (USID12349) (Continued) **S104764881**

Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	311 S. Akard Street, Floor 12
Affiliation City:	Dallas
Affiliation State:	TX
Affiliation Country:	Not reported
Affiliation Zip:	75202
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	New Cingular Wireless PCS, LLC dba AT&T Mobility
Entity Title:	Not reported
Affiliation Address:	311 S. Akard Street, Floor 12
Affiliation City:	Dallas
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	75202
Affiliation Phone:	(469) 295-2319,
Affiliation Type Desc:	Identification Signer
Entity Name:	Jeremy McGrue
Entity Title:	National EPCRA Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	AT&T Mobility
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(800) 566-9347,

C13 **ECO CLEANERS** **RCRA NonGen / NLR** **1024858996**
WSW **4200 CHINO HILLS PKWY STE 168** **CAL000425809**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 1 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

RCRA Listings:

Date Form Received by Agency:	20170316
Handler Name:	Eco Cleaners
Handler Address:	4200 Chino Hills Pkwy Ste 168
Handler City,State,Zip:	CHINO HILLS, CA 91709
EPA ID:	CAL000425809
Contact Name:	CHANG PARK
Contact Address:	2 SANTA CRUZ AISLE
Contact City,State,Zip:	IRVINE, CA 92606
Contact Telephone:	949-400-5400
Contact Fax:	Not reported
Contact Email:	GR8PLAYEA@GMAIL.COM

ECO CLEANERS (Continued) **1024858996**

Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	4200 CHINO HILLS PKWY STE 168
Mailing City,State,Zip:	CHINO HILLS, CA 91709
Owner Name:	Sun Park
Owner Type:	Other
Operator Name:	Chang Park
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180907
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

ECO CLEANERS (Continued) **1024858996**

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: CHANG PARK
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 2 SANTA CRUZ AISLE
Owner/Operator City,State,Zip: IRVINE, CA 92606
Owner/Operator Telephone: 949-400-5400
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: SUN PARK
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 2 SANTA CRUZ AISLE
Owner/Operator City,State,Zip: IRVINE, CA 92606
Owner/Operator Telephone: 949-400-1919
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20170316
Handler Name: ECO CLEANERS
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 81232
NAICS Description: DRYCLEANING AND LAUNDRY SERVICES (EXCEPT COIN-OPERATED)

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C14 **ECO CLEANERS** **ENVIROSTOR** **S106660927**
WSW **4200 CHINO HILLS PARKWAY** **LUST** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709** **VCP**
0.152 mi. **HAULERS**
802 ft. **Site 2 of 32 in cluster C** **CERS HAZ WASTE**
CERS TANKS
Relative: Higher **Cortese**
DRYCLEANERS
Actual: 647 ft. **HWTS**
San Bern. Co. Permit
CERS

ENVIROSTOR:

Name:	ECO CLEANERS
Address:	4200 CHINO HILLS PARKWAY
City,State,Zip:	CHINO HILLS, CA 91709
Facility ID:	60002826
Status:	Active
Status Date:	05/21/2019
Site Code:	401877
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Agreement
Acres:	7.29
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Mario Cazares
Supervisor:	Emad Yemut
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	59
Senate:	32
Special Program:	Voluntary Agreement - Standard Voluntary Agreement
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	33.98429
Longitude:	-117.7134
APN:	NONE SPECIFIED
Past Use:	DRY CLEANING
Potential COC:	Under Investigation Tetrachloroethylene (PCE
Confirmed COC:	Tetrachloroethylene (PCE
Potential Description:	SOIL, SV, UE
Alias Name:	401877
Alias Type:	Project Code (Site Code)
Alias Name:	60002826
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	08/28/2019
Comments:	Site visit conducted to observe site conditions.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Pre-HARP Form
Completed Date:	10/12/2020
Comments:	Signed Pre-HARP.

ECO CLEANERS (Continued) **S106660927**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 08/05/2019
Comments: Agreement Executed. Advance Payment $20,864 due on 8/15/2019.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/28/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 07/22/2020
Comments: Executed amendment to SVA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/24/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/27/2021
Comments: Corporate merger information included in the attached letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 01/24/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 09/17/2019
Comments: DTSC’s recommendation and scope of additional investigation provided in the scoping meeting held on 9/17/2019 between DTSC project team, proponent (Weingarten Realty) and their consultant (Terraphase Engineering).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 01/17/2020
Comments: Issued conditional approval for the workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Project Management
Completed Date: 06/30/2021
Comments: Not reported

ECO CLEANERS (Continued) **S106660927**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 04/07/2020
Comments: DTSC issued review of Phase I ESA with further action determination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 12/30/2021
Comments: Conditional approval of workplan issued with comments to be addressed in the field and upcoming report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 10/29/2020
Comments: Approval of PEA Workplan issued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 08/11/2021
Comments: Issued review of PEA Report with comments.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST:
Name: CIRCLE K #5728
Address: 4200 CHINO HILLS PARKWAY #205
City,State,Zip: CHINO HILLS, CA 91709
Lead Agency: SANTA ANA RWQCB (REGION 8)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607174333
Global Id: T0607174333
Latitude: 33.982914
Longitude: -117.713364
Status: Completed - Case Closed
Status Date: 10/13/2010
Case Worker: Not reported
RB Case Number: 083604081T
Local Agency: Not reported
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
EPA Region: 9
Coordinate Source: Manual Entry on Screens
Cuf Case: YES

ECO CLEANERS (Continued) **S106660927**

Quantity Released Gallons:	Not reported
Begin Date:	02/09/2004
Leak Reported Date:	02/10/2004
How Discovered:	Site Assessment/Site Investigation
How Discovered Description:	Not reported
Discharge Source:	Other
Discharge Cause:	Unknown
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	10/13/2010
CA Water Watershed Name:	Santa Ana River - Middle Santa Ana River - Chino (Split) (801.21)
Dwr Groundwater Subbasin Name:	Upper Santa Ana Valley - Chino (8-002.01)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	41-45%
CA Enviroscreen 4 Score:	20-25%
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Site History:	Not reported

LUST:

Global Id:	T0607174333
Action Type:	ENFORCEMENT
Date:	01/04/2010
Action:	Staff Letter
Global Id:	T0607174333
Action Type:	RESPONSE
Date:	03/01/2011
Action:	Well Destruction Report
Global Id:	T0607174333
Action Type:	ENFORCEMENT
Date:	07/09/2009
Action:	Staff Letter
Global Id:	T0607174333
Action Type:	ENFORCEMENT
Date:	06/24/2010
Action:	File review
Global Id:	T0607174333
Action Type:	Other
Date:	02/09/2004
Action:	Leak Began
Global Id:	T0607174333
Action Type:	Other
Date:	02/10/2004
Action:	Leak Reported
Global Id:	T0607174333
Action Type:	RESPONSE
Date:	07/30/2010
Action:	Monitoring Report - Quarterly
Global Id:	T0607174333
Action Type:	RESPONSE

ECO CLEANERS (Continued) **S106660927**

Date: 07/30/2010
Action: Other Report / Document

Global Id: T0607174333
Action Type: RESPONSE
Date: 10/12/2010
Action: Other Report / Document

Global Id: T0607174333
Action Type: REMEDIATION
Date: 08/11/2009
Action: Soil Vapor Extraction (SVE)

Global Id: T0607174333
Action Type: ENFORCEMENT
Date: 02/18/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0607174333
Action Type: RESPONSE
Date: 05/17/2010
Action: Other Report / Document

Global Id: T0607174333
Action Type: ENFORCEMENT
Date: 08/04/2010
Action: Staff Letter

Global Id: T0607174333
Action Type: ENFORCEMENT
Date: 08/03/2010
Action: File Review - Closure

Global Id: T0607174333
Action Type: ENFORCEMENT
Date: 08/12/2010
Action: Notification - Preclosure

Global Id: T0607174333
Action Type: ENFORCEMENT
Date: 10/13/2010
Action: Closure/No Further Action Letter

Global Id: T0607174333
Action Type: ENFORCEMENT
Date: 06/08/2010
Action: File review

Global Id: T0607174333
Action Type: ENFORCEMENT
Date: 06/02/2010
Action: Referral to Regional Board

Global Id: T0607174333
Action Type: Other
Date: 02/09/2004
Action: Leak Discovery

ECO CLEANERS (Continued) **S106660927**

Global Id: T0607174333
Action Type: RESPONSE
Date: 08/26/2008
Action: Other Report / Document

LUST:
Global Id: T0607174333
Status: Open - Case Begin Date
Status Date: 02/09/2004

Global Id: T0607174333
Status: Open - Site Assessment
Status Date: 08/18/2004

Global Id: T0607174333
Status: Open - Verification Monitoring
Status Date: 02/01/2010

Global Id: T0607174333
Status: Open - Verification Monitoring
Status Date: 07/12/2010

Global Id: T0607174333
Status: Completed - Case Closed
Status Date: 10/13/2010

LUST REG 8:
Name: CIRCLE K #5728
Address: 4200 CHINO HILLS PARKWAY #205
City: CHINO HILLS
Region: 8
County: San Bernardino
Regional Board: Santa Ana Region
Facility Status: Leak being confirmed
Case Number: Not reported
Local Case Num: 2004020
Case Type: Undefined
Substance: Gasoline
Qty Leaked: Not reported
Abate Method: Not reported
Cross Street: 71 FREEWAY
Enf Type: Not reported
Funding: LOPF
How Discovered: SAS
How Stopped: Not reported
Leak Cause: UNK
Leak Source: UNK
Global ID: T0607174333
How Stopped Date: Not reported
Enter Date: Not reported
Date Confirmation of Leak Began: 8/18/2004
Date Preliminary Assessment Began: Not reported
Discover Date: 2/9/2004
Enforcement Date: Not reported
Close Date: Not reported

ECO CLEANERS (Continued) **S106660927**

Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	0
Longitude:	0
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	NOM
Staff Initials:	BM7
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	Not reported
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

VCP:

Name:	ECO CLEANERS
Address:	4200 CHINO HILLS PARKWAY
City,State,Zip:	CHINO HILLS, CA 91709
Facility ID:	60002826
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Agreement
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	7.29
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Mario Cazares
Supervisor:	Emad Yemut
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	401877
Assembly:	59
Senate:	32
Special Programs Code:	Voluntary Agreement - Standard Voluntary Agreement
Status:	Active
Status Date:	05/21/2019
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	33.98429 / -117.7134

ECO CLEANERS (Continued) **S106660927**

APN: NONE SPECIFIED
Past Use: DRY CLEANING
Potential COC: 31001, 30022
Confirmed COC: 30022
Potential Description: SOIL, SV, UE
Alias Name: 401877
Alias Type: Project Code (Site Code)
Alias Name: 60002826
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 08/28/2019
Comments: Site visit conducted to observe site conditions.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 10/12/2020
Comments: Signed Pre-HARP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 08/05/2019
Comments: Agreement Executed. Advance Payment $20,864 due on 8/15/2019.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/28/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 07/22/2020
Comments: Executed amendment to SVA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/24/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/27/2021
Comments: Corporate merger information included in the attached letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 01/24/2021
Comments: Not reported

ECO CLEANERS (Continued) **S106660927**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 09/17/2019
Comments: DTSC's recommendation and scope of additional investigation provided in the scoping meeting held on 9/17/2019 between DTSC project team, proponent (Weingarten Realty) and their consultant (Terraphase Engineering).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 01/17/2020
Comments: Issued conditional approval for the workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Project Management
Completed Date: 06/30/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 04/07/2020
Comments: DTSC issued review of Phase I ESA with further action determination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 12/30/2021
Comments: Conditional approval of workplan issued with comments to be addressed in the field and upcoming report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 10/29/2020
Comments: Approval of PEA Workplan issued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 08/11/2021
Comments: Issued review of PEA Report with comments.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ECO CLEANERS (Continued) **S106660927**

HAULERS:

Name:	STEPHEN ANDREW FONSECA
Address:	4200 CHINO HILLS PARKWAY STE 135 #114
City,State,Zip:	CHINO HILLS, CA 91709
Facility ID:	1905648
Facility Phone:	(909) 821-0643
Business Email Address:	stevefonsecatireservice@gmail.com
Contact Person:	Stephen Fonseca
Mailing Address:	4200 Chino Hills Parkway Ste 135 #114
Mailing City:	Chino Hills
Mailing State:	CA
Mailing Zip:	91709
Mailing County:	Not reported
Mailing Phone:	(909) 821-0643
Current Status:	Active
Current Hauler Status:	Hauler-Registered
Accepting Tires From Public:	Not reported
Regulatory Status Last Changed:	2018-01-18 08:54:50
Business Types:	Not reported

CERS HAZ WASTE:

Name:	SMART & FINAL # 924
Address:	4200 CHINO HILLS PKWY
City,State,Zip:	CHINO HILLS, CA 91709
Site ID:	427799
CERS ID:	10047652
CERS Description:	Hazardous Waste Generator

Name:	CIRCLE K STORE #2705728
Address:	4200 CHINO HILLS PKWY
City,State,Zip:	CHINO HILLS, CA 91709
Site ID:	19103
CERS ID:	10037635
CERS Description:	Hazardous Waste Generator

CERS TANKS:

Name:	CIRCLE K STORE #2705728
Address:	4200 CHINO HILLS PKWY
City,State,Zip:	CHINO HILLS, CA 91709
Site ID:	19103
CERS ID:	10037635
CERS Description:	Underground Storage Tank

CORTESE:

Name:	CIRCLE K #5728
Address:	4200 CHINO HILLS PARKWAY #205
City,State,Zip:	CHINO HILLS, CA 91709
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607174333
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported

ECO CLEANERS (Continued) **S106660927**

Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

DRYCLEANERS:

Name:	ECO CLEANERS
Address:	4200 CHINO HILLS PKWY STE 168
City,State,Zip:	CHINO HILLS, CA 91709
EPA Id:	CAL000425809
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	3/16/2017
Facility Active:	Yes
Inactive Date:	Not reported
Facility Addr2:	Not reported
Owner Name:	SUN PARK
Owner Address:	2 SANTA CRUZ AISLE
Owner Address 2:	Not reported
Owner Telephone:	9494001919
Contact Name:	CHANG PARK
Contact Address:	2 SANTA CRUZ AISLE
Contact Address 2:	Not reported
Contact Telephone:	9494005400
Contact Fax:	Not reported
Mailing Name:	Not reported
Mailing Address 1:	4200 CHINO HILLS PKWY STE 168
Mailing Address 2:	Not reported
Mailing City:	CHINO HILLS
Mailing State:	CA
Mailing Zip:	91709
Owner Fax:	Not reported
Region Code:	4
Latitude:	0
Longitude:	0

HWTS:

Name:	ECO CLEANERS
Address:	4200 CHINO HILLS PKWY STE 168
Address 2:	Not reported
City,State,Zip:	CHINO HILLS, CA 91709
EPA ID:	CAL000425809
Inactive Date:	Not reported
Create Date:	03/16/2017
Last Act Date:	Not reported

ECO CLEANERS (Continued) **S106660927**

Mailing Name:	Not reported
Mailing Address:	4200 CHINO HILLS PKWY STE 168
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CHINO HILLS, CA 91709
Owner Name:	SUN PARK
Owner Address:	2 SANTA CRUZ AISLE
Owner Address 2:	Not reported
Owner City,State,Zip:	IRVINE, CA 92606
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	CHANG PARK
Contact Address:	2 SANTA CRUZ AISLE
Contact Address 2:	Not reported
City,State,Zip:	IRVINE, CA 92606
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Active
Facility Type:	PERMANENT
Category:	STATE
Latitude:	33.982821
Longitude:	-117.7130295

NAICS:

EPA ID:	CAL000425809
Create Date:	2017-03-16 12:12:12.527
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
Issued EPA ID Date:	2017-03-16 12:12:12.47000
Inactive Date:	Not reported
Facility Name:	ECO CLEANERS
Facility Address:	4200 CHINO HILLS PKWY STE 168
Facility Address 2:	Not reported
Facility City:	CHINO HILLS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	91709

San Bern. Co. Permit:

Name:	SMART & FINAL # 924
Address:	4200 CHINO HILLS PKY
City,State,Zip:	CHINO HILLS, CA 91709
Region:	SAN BERNARDINO
Facility ID:	FA0017549
Owner:	Smart & Final Stores LLC
Permit Number:	PT0038185
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	10/31/2024

Name:	SMART & FINAL # 924
Address:	4200 CHINO HILLS PKY
City,State,Zip:	CHINO HILLS, CA 91709
Region:	SAN BERNARDINO
Facility ID:	FA0017549
Owner:	Smart & Final Stores LLC
Permit Number:	PT0037770

ECO CLEANERS (Continued) **S106660927**

Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status: ACTIVE
Expiration Date: 10/31/2024

Name: VONS # 2597
Address: 4200 CHINO HILLS PKY
City,State,Zip: CHINO HILLS, CA 91709
Region: SAN BERNARDINO
Facility ID: FA0007874
Owner: THE VONS COMPANIES, INC
Permit Number: PT0013757
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 05/31/2018

Name: VONS # 2597
Address: 4200 CHINO HILLS PKY
City,State,Zip: CHINO HILLS, CA 91709
Region: SAN BERNARDINO
Facility ID: FA0007874
Owner: THE VONS COMPANIES, INC
Permit Number: PT0013756
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status: INACTIVE
Expiration Date: 05/31/2018

CERS:
Name: SMART & FINAL # 924
Address: 4200 CHINO HILLS PKWY
City,State,Zip: CHINO HILLS, CA 91709
Site ID: 427799
CERS ID: 10047652
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 427799
Site Name: Smart & Final # 924
Violation Date: 04-03-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 04/06/2018. OBSERVATION: The refrigerant in the refrigeration system was shown on the CERS map but was not disclosed on the hazardous materials inventory. CORRECTIVE ACTION: Submit an accurate and complete hazardous materials inventory into the California Environmental Reporting System (CERS). A hazardous materials permit will be added to the account.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-03-2018
Violations Found: Yes

ECO CLEANERS (Continued) **S106660927**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 07-12-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: closure inspection
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 07-12-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: closure inspection
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-03-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-16-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HAGGEN INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-12-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-12-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department

ECO CLEANERS (Continued) **S106660927**

Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-16-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HAGGEN INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Coordinates:
Site ID: 427799
Facility Name: Smart & Final # 924
Env Int Type Code: HMBP
Program ID: 10047652
Coord Name: Not reported
Ref Point Type Desc: Unknown,
Latitude: 33.982818
Longitude: -117.713027

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401,

Affiliation Type Desc: Environmental Contact
Entity Name: Darryl Dinson
Entity Title: Not reported
Affiliation Address: P.O. Box 512377
Affiliation City: Los Angeles
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90051-0377
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Smart & Final # 924
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 393-5837,

Affiliation Type Desc: Parent Corporation
Entity Name: Smart and Final Stores
Entity Title: Not reported

ECO CLEANERS (Continued) **S106660927**

Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Document Preparer
Entity Name: Darryl Dinson
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: P.O. Box 512377
Affiliation City: Los Angeles
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90051-0377
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Darryl Dinson
Entity Title: Environmental Health Compliance Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: SMART & FINAL STORES LLC
Entity Title: Not reported
Affiliation Address: P.O. Box 512377
Affiliation City: Los Angeles
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90051-0377
Affiliation Phone: (323) 869-7500,

Name: CIRCLE K STORE #2705728
Address: 4200 CHINO HILLS PKWY
City,State,Zip: CHINO HILLS, CA 91709
Site ID: 19103
CERS ID: 10037635
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 19103
Site Name: CIRCLE K STORE #2705728

ECO CLEANERS (Continued) **S106660927**

Violation Date:	02-18-2014
Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description:	UST Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 02/25/2014. Failure to have a written monitoring program with monitoring procedures and response plan. (CCR 2632(d)) The UST information for this site was scanned for accuracy. Correct the following: Tank Information: Vapor recovery piping is fiberglass not steel. Under dispenser Containment is fiberglass not steel. CORRECT INFORMATION IN CERS DATABASE
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	19103
Site Name:	CIRCLE K STORE #2705728
Violation Date:	02-03-2021
Citation:	HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description:	"Failure to meet one or more of the following requirements: Install or maintain a liquid-tight spill container. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill container. Be resistant to galvanic corrosion. Perform a tightness test at installation, every 12 months thereafter, or within 30 days after a repair to the spill container. Tested using applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Tested by a certified UST service technician. Maintain records of spill containment testing for 36 months. "
Violation Notes:	Returned to compliance on 02/03/2021. OBSERVATION: Owner/Operator failed to meet one or more of the following spill container requirements: install or maintain spill container which is liquid-tight, has a minimum capacity of five gallons, has a functional drain valve or other method for the removal of liquid from the spill container, and is resistant to galvanic corrosion; did not perform tightness test at installation, every 12 months thereafter, or within 30 days after a repair; did not have tested using manufacturer's guidelines, industry codes, engineering standards, or method approved by PE, or was not tested by a certified UST service technician; or failed to maintain testing records for 36 months. CORRECTIVE ACTION: Install or repair spill buckets to meet all of the listed requirements, have tightness tested using approved method, by certified UST service technician, and submit documentation to verfiy compliance. Maintain all testing records for 36 months.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	19103
Site Name:	CIRCLE K STORE #2705728
Violation Date:	02-14-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

ECO CLEANERS (Continued) **S106660927**

Violation Notes:	Returned to compliance on 03/15/2017. OBSERVATIONS: THE TWO HAZARDOUS WASTE DRUMS ON-SITE WERE NOT PROVIDED ON THE INVENTORY. THE DRUMS HAVE A 30 GALLON CAPACITY EACH AND ARE STORED WITHIN 55 GALLON DRUMS, WHICH SERVE AS SECONDARY CONTAINMENT. COMPLIANCE REQUIREMENTS: UPDATE THE INVENTORY TO REFLECT THE HAZARDOUS MATERIAL STORED ON-SITE.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	19103
Site Name:	CIRCLE K STORE #2705728
Violation Date:	02-18-2014
Citation:	HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)
Violation Description:	Failure to prepare, maintain, and submit accurate CUPA UST Operating Permit Application for Facility information and/or Tank information.
Violation Notes:	Returned to compliance on 02/25/2014. The UST information for this site was scanned for accuracy. Correct the following: Tank Information: Vapor recovery piping is fiberglass not steel. Under dispenser Containment is fiberglass not steel. CORRECTION INFORMATION IN CERS DATABASE
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	19103
Site Name:	CIRCLE K STORE #2705728
Violation Date:	02-13-2018
Citation:	HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286
Violation Description:	Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes:	Returned to compliance on 02/27/2018. OBSERVATION: SUBMITTED UNDERGROUND STORAGE TANK (UST) INFORMATION IN CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) WAS NOT ACCURATE, COMPLETE, OR CURRENT. UPDATE THE FOLLOWING: 1) UPDATE TANK INSTALLED DATES TO 3/29/1991. COMPLIANCE REQUIREMENT: RESUBMIT UPDATE UST INFORMATION IN CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	19103
Site Name:	CIRCLE K STORE #2705728
Violation Date:	02-14-2017
Citation:	HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description:	UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes:	Returned to compliance on 03/15/2017. Failure to have a written monitoring program with monitoring procedures and response plan (CHSC 25286(a)) OBSERVATIONS: THE UST SITE PLAN IS MISSING THE ESTIMATED PIPING LAYOUT, THE CORRECT MECHANICAL LINE LEAK DETECTORS, AND SENSORS USED TO MONITOR THE SYSTEM. THE FACILITY SITE MAP IS CURRENTLY UPLOADED TO UNDER THE UST SITE PLAN SECTION, WHICH IS INCORRECT. THESE ITEMS ARE NOT THE SAME AND REQUIRE DIFFERENT INFORMATION TO BE PROVIDED. COMPLIANCE REQUIREMENTS: UPDATE THE UST SITE PLAN WITH THE

ECO CLEANERS (Continued) **S106660927**

MISSING INFORMATION.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 19103
Site Name: CIRCLE K STORE #2705728
Violation Date: 02-14-2017
Citation: HSC 6.7 25290.1(c)(3), 25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3), 25290.2(c)(3)
Violation Description: Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003 and before July 1, 2004, or on or after July 1, 2004.
Violation Notes: Returned to compliance on 02/13/2018. OBSERVATIONS: THE 87 AND 91 FILL SUMPS HAD LIQUID INSIDE. TECHNICIAN CONFIRMED IT WAS A WATER-FUEL MIXTURE. THE SENSORS WERE NOT IN ALARM DUE TO THE SETTLEMENT OF THE LIQUID BEING OPPOSITE OF THE SENSOR. COMPLIANCE REQUIREMENTS: ENSURE THE CONSTRUCTION OF THE TANK TOP SUMP LIDS ARE IN GOOD CONDITION AND PREVENTS THE INTRUSION OF LIQUID FROM OUTSIDE ENVIRONMENT. TECHNICIAN PUMPED OUT LIQUID DURING INSPECTION. DETERMINE THE CAUSE OF THE LIQUID INTRUSION, WHAT CORRECTIVE ACTION IS REQUIRED, AND PROOF OF CORRECTION TO OUR DEPARTMENT WITHIN THE TIME ALLOWED. COMPLIANCE ACTIVITY 3/31/2017: HAVE NOT BEEN CONTACTED WITH AN UPDATE ON THIS VIOLATION. PREPARED OUTSTANDING VIOLATION LETTER. EGRIMES
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 19103
Site Name: CIRCLE K STORE #2705728
Violation Date: 02-20-2020
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description: "Failure to meet one or more of the following requirements: Install or maintain a liquid-tight spill container. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill container. Be resistant to galvanic corrosion. Perform a tightness test at installation, every 12 months thereafter, or within 30 days after a repair to the spill container. Tested using applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Tested by a certified UST service technician. Maintain records of spill containment testing for 36 months. "
Violation Notes: Returned to compliance on 02/20/2020. OBSERVATION: At the time of inspection, T1 (Regular) failed the hydrostatic test. CORRECTIVE ACTION: The Service Technician replaced the O-ring gasket at the top of the spill bucket for T1 (Regular) and re-tested-Passed.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 19103
Site Name: CIRCLE K STORE #2705728
Violation Date: 02-14-2017
Citation: 23 CCR 6.7 25284, 25286 - California Code of Regulations, Title 23, Chapter 6.7, Section(s) 25284, 25286

ECO CLEANERS (Continued) **S106660927**

Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes: Returned to compliance on 03/15/2017. OBSERVATIONS: THE INSTALLATION DATE FOR THE UST SYSTEMS IS BLANK ON BOTH TANK PAGES COMPLIANCE REQUIREMENTS: PROVIDE THE INSTALLATION DATE FOR THE SYSTEM. IF ONLY THE YEAR IS KNOWN, THEN ENTER 1/1/YEAR OF INSTALLATION.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 19103
Site Name: CIRCLE K STORE #2705728
Violation Date: 02-04-2022
Citation: 23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description: Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes: Returned to compliance on 02/04/2022. OBSERVATION: Owner/Operator did not properly install, calibrate, operate and/or maintain leak detection equipment. VR 420 sensor in the 91 annular space failed to alarm & positive shut down when tested. CORRECTIVE ACTION: No further action required. VR 420 sensor in the 91 annular space was replaced and retested at the time of inspection. Inspector witnessed.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-04-2022
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: MONT CERT.
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 02-18-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: haz waste inspection no violations observed.
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-04-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On-site to conduct a full CUPA inspection.
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-03-2021

ECO CLEANERS (Continued) **S106660927**

Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HAZMAT HANDLER UST ONLY
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-03-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: WASTE INCIDENTAL UST OPERATION ONLY
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-03-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: MONT CERT.
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-14-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-20-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On-site to conduct an Annual Underground Storage Tank (UST) inspection. Inspection was conducted during the annual monitoring certification testing.
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-04-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On-site to conduct a full CUPA inspection.
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 09-23-2021
Violations Found: No

ECO CLEANERS (Continued) **S106660927**

Eval Type: Other, not routine, done by local agency
Eval Notes: On-site to conduct final plan check inspection. The plan check inspection was to verify a dispenser upgrade and software upgrade which triggered a cold start at the Veeder Root.
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-04-2022
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HAZMAT HANDLER UST ONLY
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-13-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ANNUAL UST INSPECTION WITH MONITORING CERTIFICATION
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-14-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-16-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HAZARDOUS MATERIALS HANDLER INSPECTION - UST ONLY
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-16-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HAZARDOUS MATERIALS INSPECTION WITH MONITORING SYSTEM CERTIFICATION.
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-17-2015
Violations Found: No
Eval Type: Routine done by local agency

ECO CLEANERS (Continued) **S106660927**

Eval Notes: HAZARDOUS MATERIALS INSPECTION UST ONLY.
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-17-2023
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: MONT CERT.
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-17-2023
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: WASTE INCIDENTAL UST OPERATION ONLY
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-18-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Mont Cert Chino Hills
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 08-12-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: SB989 REPAIR UDC 11/12 AND INCON TEST
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 09-22-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CIRCLE K- CHINO HILLS- UST SB989 SECONDARY CERTIFICATION TEST
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-04-2022
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: WASTE INCIDENTAL UST OPERATION ONLY
Eval Division: San Bernardino County Fire Department
Eval Program: HW

ECO CLEANERS (Continued) **S106660927**

Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-14-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-17-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: UST ANNUAL INSPECTION WITH MONITORING SYSTEM CERTIFICATION.
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-17-2023
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HAZMAT HANDLER UST ONLY
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 02-18-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: observed inventory reflected by BP
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 19103
Site Name: CIRCLE K STORE #2705728
Site Address: 4200 CHINO HILLS PKWY
Site City: CHINO HILLS
Site Zip: 91709
Enf Action Date: 02-14-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 19103
Site Name: CIRCLE K STORE #2705728
Site Address: 4200 CHINO HILLS PKWY
Site City: CHINO HILLS
Site Zip: 91709

ECO CLEANERS (Continued) **S106660927**

Enf Action Date: 02-14-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 19103
Site Name: CIRCLE K STORE #2705728
Site Address: 4200 CHINO HILLS PKWY
Site City: CHINO HILLS
Site Zip: 91709
Enf Action Date: 02-18-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS,

Coordinates:
Site ID: 19103
Facility Name: CIRCLE K STORE #2705728
Env Int Type Code: HWG
Program ID: 10037635
Coord Name: Not reported
Ref Point Type Desc: Unknown,
Latitude: 33.982818
Longitude: -117.713027

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Reyna mendez
Entity Title: Not reported
Affiliation Address: P.O. Box 52085, Attn: Environmental
Affiliation City: Phoenix
Affiliation State: AZ
Affiliation Country: Not reported
Affiliation Zip: 85072
Affiliation Phone: ,

Affiliation Type Desc: UST Tank Operator
Entity Name: Circle K Stores Inc.
Entity Title: Not reported
Affiliation Address: P.O. Box 52085, Attn: Environmental
Affiliation City: Phoenix
Affiliation State: AZ
Affiliation Country: United States
Affiliation Zip: 85072
Affiliation Phone: (657) 262-2358,

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street

ECO CLEANERS (Continued) **S106660927**

Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,
Affiliation Type Desc:	Document Preparer
Entity Name:	Abigail Jara
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	Circle K Stores Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Property Owner
Entity Name:	WRI/Chino Hills, LLC c/o Weingarten Realty
Entity Title:	Not reported
Affiliation Address:	P.O Box 924133
Affiliation City:	Houston
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	77292
Affiliation Phone:	(714) 899-6888,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	P.O. Box 52085, Attn: Environmental
Affiliation City:	Phoenix
Affiliation State:	AZ
Affiliation Country:	Not reported
Affiliation Zip:	85072
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	Circle K Stores Inc.
Entity Title:	Not reported
Affiliation Address:	P.O. Box 52085, Attn: Environmental
Affiliation City:	Phoenix
Affiliation State:	AZ
Affiliation Country:	United States
Affiliation Zip:	85072
Affiliation Phone:	(602) 722-1301,
Affiliation Type Desc:	UST Property Owner Name

ECO CLEANERS (Continued) **S106660927**

Entity Name: WRI/Chino, LLC c/o Weingarten Reality
Entity Title: Not reported
Affiliation Address: P.O Box 924133
Affiliation City: Houston
Affiliation State: TX
Affiliation Country: United States
Affiliation Zip: 77292
Affiliation Phone: (714) 899-6888,

Affiliation Type Desc: Identification Signer
Entity Name: Abigail Jara
Entity Title: Agent For Circle K
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Circle K Stores Inc.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (657) 262-2358,

Affiliation Type Desc: UST Permit Applicant
Entity Name: Robert Velasco
Entity Title: Agent For Circle K
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (661) 250-9300,

Affiliation Type Desc: UST Tank Owner
Entity Name: Circle K Stores Inc.
Entity Title: Not reported
Affiliation Address: P.O. Box 52085, Attn: Environmental
Affiliation City: Phoenix
Affiliation State: AZ
Affiliation Country: United States
Affiliation Zip: 85072
Affiliation Phone: (657) 262-2358,

Name: CIRCLE K #5728
Address: 4200 CHINO HILLS PARKWAY #205
City,State,Zip: CHINO HILLS, CA 91709
Site ID: 721787
CERS ID: T0607174333
CERS Description: Leaking Underground Storage Tank Cleanup Site

C15 **WEINGARTEN REAL ESTATE** **RCRA NonGen / NLR** **1026474016**
WSW **4200 CHINO HILLS PARKWAY - BLDG. G** **CAC003079704**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 3 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

RCRA Listings:

Date Form Received by Agency:	20200817
Handler Name:	Weingarten Real Estate
Handler Address:	4200 Chino Hills Parkway - Bldg. G
Handler City,State,Zip:	CHINO HILLS, CA 91709
EPA ID:	CAC003079704
Contact Name:	TIFFANY BROKKE
Contact Address:	4200 CHINO HILLS PARKWAY - BLDG. G
Contact City,State,Zip:	CHINO HILLS, CA 91709
Contact Telephone:	714-653-7320
Contact Fax:	Not reported
Contact Email:	GEOFF.STOREY@GOBLUSKY.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	4200 CHINO HILLS PARKWAY - BLDG. G
Mailing City,State,Zip:	CHINO HILLS, CA 91709
Owner Name:	Weingarten Real Estate
Owner Type:	Other
Operator Name:	Tiffany Brokke
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

WEINGARTEN REAL ESTATE (Continued) **1026474016**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200904
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: TIFFANY BROKKE	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4200 CHINO HILLS PARKWAY - BLDG. G
Owner/Operator City,State,Zip:	CHINO HILLS, CA 91709
Owner/Operator Telephone:	714-653-7320
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: WEINGARTEN REAL ESTATE	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	120 S. VANTIS DR., STE. 525
Owner/Operator City,State,Zip:	ALISA VIEJO, CA 92646
Owner/Operator Telephone:	714-653-7320
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20200817
Handler Name: WEINGARTEN REAL ESTATE	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

WEINGARTEN REAL ESTATE (Continued) **1026474016**

List of NAICS Codes and Descriptions:
NAICS Code: 237110
NAICS Description: WATER AND SEWER LINE AND RELATED STRUCTURES CONSTRUCTION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C16 **TACO BELL STORE #4342** **San Bern. Co. Permit** **S108201663**
WSW **4200 CHINO HILLS PKY** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 4 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

San Bern. Co. Permit:
Name: TACO BELL STORE #4342
Address: 4200 CHINO HILLS PKY
City,State,Zip: CHINO HILLS, CA 91709
Region: SAN BERNARDINO
Facility ID: FA0014838
Owner: TACO BELL CORP.
Permit Number: PT0025914
Permit Category: BULK CO2 AT RETAIL FOOD FACILITIES
Facility Status: INACTIVE
Expiration Date: 12/31/2013

C17 **JUST TIRES #4841** **RCRA NonGen / NLR** **1024805870**
WSW **4200 CHINO HILLS PKWY STE 280** **CAL000266030**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 5 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

RCRA Listings:
Date Form Received by Agency: 20030206
Handler Name: Just Tires #4841
Handler Address: 4200 Chino Hills Pkwy Ste 280
Handler City,State,Zip: CHINO HILLS, CA 91709
EPA ID: CAL000266030
Contact Name: ANTHONY J DESANTO
Contact Address: 200 INNOVATION WAY
Contact City,State,Zip: AKRON, OH 44316
Contact Telephone: 330-796-2490
Contact Fax: Not reported
Contact Email: ANTHONY_DESANTO@GOODYEAR.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities

JUST TIRES #4841 (Continued) **1024805870**

State District Owner:	Not reported
State District:	Not reported
Mailing Address:	200 INNOVATION WAY
Mailing City,State,Zip:	AKRON, OH 44316-1000
Owner Name:	The Goodyear Tire & Rubber Co
Owner Type:	Other
Operator Name:	Anthony J Desanto
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	THE GOODYEAR TIRE & RUBBER CO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	200 INNOVATION WAY

JUST TIRES #4841 (Continued) **1024805870**

Owner/Operator City,State,Zip: AKRON, OH 44316-1000
Owner/Operator Telephone: 330-796-0339
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: ANTHONY J DESANTO
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 200 INNOVATION WAY
Owner/Operator City,State,Zip: AKRON, OH 44316
Owner/Operator Telephone: 330-796-2490
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20030206
Handler Name: JUST TIRES #4841
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 44132
NAICS Description: TIRE DEALERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C18 **RITE AID #5578** **RCRA-SQG** **1014387426**
WSW **4200 CHINO HILLS PKWY STE 500** **CAR000209601**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 6 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

RCRA Listings:
Date Form Received by Agency: 20221222
Handler Name: Rite Aid #5578
Handler Address: Chino Hills Pkwy Ste 500
Handler City,State,Zip: CHINO HILLS, CA 91709-0000
EPA ID: CAR000209601
Contact Name: JOSEPH A CHEST

RITE AID #5578 (Continued) **1014387426**

Contact Address:	PO BOX 3165
Contact City,State,Zip:	HARRISBURG, PA 17105
Contact Telephone:	717-975-8643
Contact Fax:	717-972-3989
Contact Email:	EHS@RITEAID.COM
Contact Title:	MANAGER, ENVIRONMENTAL HEALTH SERVICES
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 3165
Mailing City,State,Zip:	HARRISBURG, PA 17105
Owner Name:	Wri/Chino Hills, Llc
Owner Type:	Private
Operator Name:	Thrifty Payless, Inc
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20221227
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No

RITE AID #5578 (Continued) **1014387426**

Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: No
Manifest Broker: No
Sub-Part P Indicator: No

Biennial: List of Years
Year: 2021

Click Here for Biennial Reporting System Data:
Year: 2019

Click Here for Biennial Reporting System Data:
Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2015

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D001
Waste Description: Ignitable Waste

Waste Code: D002
Waste Description: Corrosive Waste

Waste Code: D005
Waste Description: Barium

Waste Code: D006
Waste Description: Cadmium

Waste Code: D007
Waste Description: Chromium

Waste Code: D008
Waste Description: Lead

Waste Code: D009
Waste Description: Mercury

Waste Code: D010
Waste Description: Selenium

Waste Code: D011
Waste Description: Silver

Waste Code: D016
Waste Description: 2,4-D (2,4-Dichlorophenoxyacetic Acid)

Waste Code: D024
Waste Description: M-Cresol

Waste Code: D026
Waste Description: Cresol

RITE AID #5578 (Continued) **1014387426**

Waste Code: D035
Waste Description: Methyl Ethyl Ketone

Waste Code: P001
Waste Description: 2h-1-Benzopyran-2-One, 4-Hydroxy-3-(3-Oxo-1-Phenylbutyl)-, & Salts, When Present At Concentrations Greater Than 0.3% (Or) Warfarin, & Salts, When Present At Concentrations Greater Than 0.3%

Waste Code: P075
Waste Description: Nicotine, & Salts (Or) Pyridine, 3-(1-Methyl-2-Pyrrolidinyl)-,(S)-, & Salts

Waste Code: U002
Waste Description: 2-Propanone (I) (Or) Acetone (I)

Waste Code: U080
Waste Description: Methane, Dichloro- (Or) Methylene Chloride

Waste Code: U160
Waste Description: 2-Butanone, Peroxide (R,T) (Or) Methyl Ethyl Ketone Peroxide (R,T)

Waste Code: U165
Waste Description: Naphthalene

Waste Code: U188
Waste Description: Phenol

Waste Code: U201
Waste Description: 1,3-Benzenediol (Or) Resorcinol

Waste Code: U279
Waste Description: U279

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: RITE AID CORP	
Legal Status:	Private
Date Became Current:	19620901
Date Ended Current:	Not reported
Owner/Operator Address:	30 HUNTER LN
Owner/Operator City,State,Zip:	HARRISBURG, PA 17011
Owner/Operator Telephone:	717-730-8225
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: THRIFTY PAYLESS	
Legal Status:	Private
Date Became Current:	19970306
Date Ended Current:	Not reported
Owner/Operator Address:	30 HUNTER LN
Owner/Operator City,State,Zip:	CAMP HILL, PA 17011
Owner/Operator Telephone:	717-730-8225
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

RITE AID #5578 (Continued) **1014387426**

Owner/Operator Indicator:	Owner
Owner/Operator Name: WRI/CHINO HILLS, LLC	
Legal Status:	Private
Date Became Current:	19901129
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 924133
Owner/Operator City,State,Zip:	HOUSTON, TX 77292-4133
Owner/Operator Telephone:	713-866-6000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	EHS@RITEAID.COM

Owner/Operator Indicator:	Owner
Owner/Operator Name: WRI/CHINO HILLS, LLC	
Legal Status:	Private
Date Became Current:	19901129
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 924133
Owner/Operator City,State,Zip:	HOUSTON, TX 77292-4133
Owner/Operator Telephone:	713-866-6000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	EHS@RITEAID.COM

Owner/Operator Indicator:	Operator
Owner/Operator Name: THRIFTY PAYLESS INC	
Legal Status:	Private
Date Became Current:	19970306
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: WRI/CHINO HILLS, LLC	
Legal Status:	Private
Date Became Current:	19901129
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 924133
Owner/Operator City,State,Zip:	HOUSTON, TX 77292-4133
Owner/Operator Telephone:	713-866-6000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	EHS@RITEAID.COM

Owner/Operator Indicator:	Operator
Owner/Operator Name: THRIFTY PAYLESS, INC.	
Legal Status:	Private
Date Became Current:	19970306
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported

RITE AID #5578 (Continued) **1014387426**

Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: THRIFTY PAYLESS, INC	
Legal Status:	Private
Date Became Current:	19970306
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 3165
Owner/Operator City,State,Zip:	HARRISBURG, PA 17105
Owner/Operator Telephone:	717-761-2633
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	EHS@RITEAID.COM
Owner/Operator Indicator:	Operator
Owner/Operator Name: THRIFTY PAYLESS, INC	
Legal Status:	Private
Date Became Current:	19970306
Date Ended Current:	Not reported
Owner/Operator Address:	30 HUNTER LANE
Owner/Operator City,State,Zip:	CAMP HILL, PA 17011
Owner/Operator Telephone:	717-761-2633
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	EHS@RITEAID.COM
Owner/Operator Indicator:	Owner
Owner/Operator Name: WRI/CHINO HILLS, LLC	
Legal Status:	Private
Date Became Current:	19901129
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 924133
Owner/Operator City,State,Zip:	HOUSTON, TX 77292
Owner/Operator Telephone:	713-866-6000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: THRIFTY PAYLESS, INC	
Legal Status:	Private
Date Became Current:	19970306
Date Ended Current:	Not reported
Owner/Operator Address:	30 HUNTER LANE
Owner/Operator City,State,Zip:	CAMP HILL, PA 17011
Owner/Operator Telephone:	717-761-2633
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	EHS@RITEAID.COM
Owner/Operator Indicator:	Operator
Owner/Operator Name: THRIFTY PAYLESS, INC	
Legal Status:	Private
Date Became Current:	19970306
Date Ended Current:	Not reported
Owner/Operator Address:	30 HUNTER LANE

RITE AID #5578 (Continued) **1014387426**

Owner/Operator City,State,Zip:	CAMP HILL, PA 17011
Owner/Operator Telephone:	717-761-2633
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	EHS@RITEAID.COM
Owner/Operator Indicator:	Owner
Owner/Operator Name: WRI/CHINO HILLS, LLC	
Legal Status:	Private
Date Became Current:	19901129
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 924133
Owner/Operator City,State,Zip:	HOUSTON, TX 77292-4133
Owner/Operator Telephone:	713-866-6000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	EHS@RITEAID.COM
Owner/Operator Indicator:	Owner
Owner/Operator Name: WRI/CHINO HILLS, LLC	
Legal Status:	Private
Date Became Current:	19901129
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 924133
Owner/Operator City,State,Zip:	HOUSTON, TX 77292-4133
Owner/Operator Telephone:	713-866-6000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	EHS@RITEAID.COM
Owner/Operator Indicator:	Operator
Owner/Operator Name: THRIFTY PAYLESS, INC	
Legal Status:	Private
Date Became Current:	19970306
Date Ended Current:	Not reported
Owner/Operator Address:	30 HUNTER LANE
Owner/Operator City,State,Zip:	CAMP HILL, PA 17011
Owner/Operator Telephone:	717-761-2633
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	EHS@RITEAID.COM
Owner/Operator Indicator:	Owner
Owner/Operator Name: RITE AID CORP	
Legal Status:	Private
Date Became Current:	19620901
Date Ended Current:	Not reported
Owner/Operator Address:	30 HUNTER LN
Owner/Operator City,State,Zip:	HARRISBURG, PA 17011
Owner/Operator Telephone:	717-730-8225
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: RITE AID CORP	
Legal Status:	Private

RITE AID #5578 (Continued) **1014387426**

Date Became Current:	19970306
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: WRI/CHINO HILLS, LLC	
Legal Status:	Private
Date Became Current:	19901129
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 924133
Owner/Operator City,State,Zip:	HOUSTON, TX 77292-4133
Owner/Operator Telephone:	713-866-6000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	EHS@RITEAID.COM
Owner/Operator Indicator:	Owner
Owner/Operator Name: WRI/CHINO HILLS LLC	
Legal Status:	Private
Date Became Current:	19901129
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 924133
Owner/Operator City,State,Zip:	HOUSTON, TX 77292-4133
Owner/Operator Telephone:	713-866-6000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: THRIFTY PAYLESS, INC	
Legal Status:	Private
Date Became Current:	19970306
Date Ended Current:	Not reported
Owner/Operator Address:	30 HUNTER LANE
Owner/Operator City,State,Zip:	CAMP HILL, PA 17011
Owner/Operator Telephone:	717-761-2633
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	EHS@RITEAID.COM

Historic Generators:

Receive Date:	20170414
Handler Name: RITE AID #5578	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported

RITE AID #5578 (Continued) **1014387426**

Electronic Manifest Broker: Not reported

Receive Date: 20180223
Handler Name: RITE AID #5578
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20200218
Handler Name: RITE AID #5578
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20220210
Handler Name: RITE AID #5578
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20100806
Handler Name: RITE AID 5578
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20140623
Handler Name: RITE AID NO 5578
Federal Waste Generator Description: Large Quantity Generator

RITE AID #5578 (Continued) **1014387426**

State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20170213
Handler Name: RITE AID #5578	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20190429
Handler Name: RITE AID #5578	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

Receive Date:	20220314
Handler Name: RITE AID #5578	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

Receive Date:	20221222
Handler Name: RITE AID #5578	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No

RITE AID #5578 (Continued) **1014387426**

Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 44611
NAICS Description: PHARMACIES AND DRUG STORES

NAICS Code: 446110
NAICS Description: PHARMACIES AND DRUG STORES

Has the Facility Received Notices of Violations:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 20210208
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION

RITE AID #5578 (Continued) **1014387426**

Evaluation Responsible Person Identifier:	CUPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

C19 **CIRCLE K SS # 5728** **UST** **U004350582**
WSW **4200 CHINO HILLS PKWY** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 7 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

UST:

Name:	CIRCLE K SS # 5728
Address:	4200 CHINO HILLS PKWY
City,State,Zip:	CHINO HILLS, CA 91709
Facility ID:	90022497
Permitting Agency:	SAN BERNARDINO COUNTY
CERSID:	Not reported
Latitude:	33.9844998
Longitude:	-117.7098781
Owner type:	Not reported
Facility type:	Not reported
Num of inuse ust:	Not reported
Num of closed ust:	Not reported
Num of oos ust:	Not reported
Epa region:	Not reported
Tribal lands:	Not reported
Tank owner name:	Not reported
Tank owner mailing address:	Not reported
Tank owner mailing city:	Not reported
Tank owner mailing zip:	Not reported
Tank owner mailing state:	Not reported
Tank operator name:	Not reported
Tank operator mailing address:	Not reported
Tank operator mailing city:	Not reported
Tank operator mailing zip:	Not reported
Tank operator mailing state:	Not reported
Tankidnumber:	Not reported
Tank status:	Not reported
Tank configuration:	Not reported
Tank closure date:	Not reported
Tank installation date:	Not reported
Tank num of compartments:	Not reported
Tank contents:	Not reported
Tank capacity gallons:	Not reported
Tank type:	Not reported
Tank pc construction:	Not reported
Tank pwpiping construction:	Not reported
Tank piping type:	Not reported
Tank piping construction:	Not reported
Tank sacrificial anode:	Not reported
Tank cp impressed current:	Not reported
Tank cp shutoff:	Not reported

CIRCLE K SS # 5728 (Continued) **U004350582**

Tank alarms: Not reported
Tank ball float: Not reported
Tank spill bucket: Not reported

C20 **GOODWILL STORE #77 CHINO HILLS** **RCRA NonGen / NLR** **1028898729**
WSW **4200 CHINO HILLS PKWY STE. 710** **CAC003260414**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 8 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

RCRA Listings:

Date Form Received by Agency:	20231109
Handler Name:	Goodwill Store #77 Chino Hills
Handler Address:	4200 Chino Hills Pkwy Ste. 710
Handler City,State,Zip:	CHINO HILLS, CA 91709
EPA ID:	CAC003260414
Contact Name:	GIOVANNA MORENO
Contact Address:	342 N. SAN FERNANDO RD.
Contact City,State,Zip:	LOS ANGELES, CA 90031
Contact Telephone:	323-974-2057
Contact Fax:	Not reported
Contact Email:	GMORENO@GOODWILLSOCAL.ORG
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	342 N. SAN FERNANDO RD.
Mailing City,State,Zip:	LOS ANGELES, CA 90031
Owner Name:	Goodwill Industries Of Southern Cal
Owner Type:	Other
Operator Name:	Giovanna Moreno
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No

GOODWILL STORE #77 CHINO HILLS (Continued) **1028898729**

Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20231110
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: GIOVANNA MORENO	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	342 N. SAN FERNANDO RD.
Owner/Operator City,State,Zip:	LOS ANGELES, CA 90031
Owner/Operator Telephone:	323-974-2057
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: GOODWILL INDUSTRIES OF SOUTHERN CAL	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	342 N. SAN FERNANDO RD.
Owner/Operator City,State,Zip:	LOS ANGELES, CA 90031
Owner/Operator Telephone:	323-223-1211
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20231109
Handler Name: GOODWILL STORE #77 CHINO HILLS	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No

GOODWILL STORE #77 CHINO HILLS (Continued) **1028898729**

Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 459510
NAICS Description: USED MERCHANDISE RETAILERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C21 **WINSTON TIRE NO 191** **RCRA-SQG** **1004676187**
WSW **4200 CHINO HILLS PKWY UNIT G** **FINDS** **CAR000081992**
1/8-1/4 **CHINO HILLS, CA 91710** **ECHO**
0.152 mi. **HWTS**
802 ft. **Site 9 of 32 in cluster C** **HAZNET**

Relative: Higher
Actual: 647 ft.

RCRA Listings:
Date Form Received by Agency: 20000901
Handler Name: Winston Tire No 191
Handler Address: 4200 Chino Hills Pkwy Unit G
Handler City,State,Zip: CHINO HILLS, CA 91710
EPA ID: CAR000081992
Contact Name: BRAD TRASK
Contact Address: 4200 CHINO HILLS PKWY UNIT G
Contact City,State,Zip: CHINO HILLS, CA 91710
Contact Telephone: 909-393-0054
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 09
Land Type: Private
Federal Waste Generator Description: Small Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: 4200 CHINO HILLS PKWY UNIT G
Mailing City,State,Zip: CHINO HILLS, CA 91710
Owner Name: Heafner Group Inc
Owner Type: Private
Operator Name: Not reported
Operator Type: Not reported
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No
Recycler Activity with Storage: No

WINSTON TIRE NO 191 (Continued) **1004676187**

Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20021007
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D039
Waste Description:	Tetrachloroethylene

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: HEAFNER GROUP INC	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2105 WATER RIDGE PKWY STE 500
Owner/Operator City,State,Zip:	CHARLOTTE, NC 28217
Owner/Operator Telephone:	800-444-4726
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20000901
Handler Name:	WINSTON TIRE NO 191

WINSTON TIRE NO 191 (Continued) **1004676187**

Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110012184670

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1004676187
Registry ID:	110012184670
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110012184670
Name:	WINSTON TIRE NO 191
Address:	4200 CHINO HILLS PKWY UNIT G
City,State,Zip:	CHINO HILLS, CA 91710

HWTS:

Name:	WINSTON TIRE NO 191
Address:	4200 CHINO HILLS PKWY UNIT G
Address 2:	Not reported
City,State,Zip:	CHINO HILLS, CA 91709
EPA ID:	CAR000081992
Inactive Date:	06/30/2002
Create Date:	04/03/2001
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	900 W ALAMEDA AVE

WINSTON TIRE NO 191 (Continued) **1004676187**

Mailing Address 2:	Not reported
Mailing City,State,Zip:	BURBANK, CA 915060000
Owner Name:	Not reported
Owner Address:	Not reported
Owner Address 2:	Not reported
Owner City,State,Zip:	Not reported
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	LUPE ROSALES DIR
Contact Address:	900 W ALAMEDA AVE
Contact Address 2:	Not reported
City,State,Zip:	BURBANK, CA 915060000
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	FEDERAL
Latitude:	33.982678
Longitude:	-117.715074

NAICS:

EPA ID:	CAR000081992
Create Date:	2002-03-14 16:36:30.000
NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	2001-04-03 00:00:00
Inactive Date:	2002-06-30 00:00:00
Facility Name:	WINSTON TIRE NO 191
Facility Address:	4200 CHINO HILLS PKWY UNIT G
Facility Address 2:	Not reported
Facility City:	CHINO HILLS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	917093776

HAZNET:

Name:	WINSTON TIRE NO 191
Address:	4200 CHINO HILLS PKWY UNIT G
Address 2:	Not reported
City,State,Zip:	CHINO HILLS, CA 917093776
Contact:	LUPE ROSALES DIR
Telephone:	8189721200
Mailing Name:	Not reported
Mailing Address:	900 W ALAMEDA AVE
Year:	2002
Gepaid:	CAR000081992
TSD EPA ID:	CAT080013352
CA Waste Code:	133 - Aqueous solution with total organic residues 10 percent or more
Disposal Method:	R01 - Recycler
Tons:	0.22935
Year:	2002
Gepaid:	CAR000081992
TSD EPA ID:	CAT080033681
CA Waste Code:	352 - Other organic solids

WINSTON TIRE NO 191 (Continued) **1004676187**

Disposal Method:	R01 - Recycler
Tons:	0.15
Year:	2001
Gepaid:	CAR000081992
TSD EPA ID:	CAT000613927
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H01 - Transfer Station
Tons:	0.21
Year:	2000
Gepaid:	CAR000081992
TSD EPA ID:	CAT000613927
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H01 - Transfer Station
Tons:	0.0462

Additional Info:

Year:	2002
Gen EPA ID:	CAR000081992
Shipment Date:	20021213
Creation Date:	4/10/2003 10:20:47
Receipt Date:	20021230
Manifest ID:	21662381
Trans EPA ID:	CAD028277036
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20021213
Creation Date:	5/6/2003 18:31:20
Receipt Date:	20030102
Manifest ID:	21662380
Trans EPA ID:	CAD028277036
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352

WINSTON TIRE NO 191 (Continued) **1004676187**

Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2001
Gen EPA ID:	CAR000081992
Shipment Date:	20011207
Creation Date:	2/13/2002 0:00:00
Receipt Date:	20011207
Manifest ID:	21319945
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010313
Creation Date:	4/30/2001 0:00:00
Receipt Date:	20010314
Manifest ID:	20614618
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039

WINSTON TIRE NO 191 (Continued) **1004676187**

Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010313
Creation Date:	4/30/2001 0:00:00
Receipt Date:	20010314
Manifest ID:	20614618
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0714
Waste Quantity:	17
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010212
Creation Date:	4/10/2001 0:00:00
Receipt Date:	20010212
Manifest ID:	20365446
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0714
Waste Quantity:	17
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

WINSTON TIRE NO 191 (Continued) **1004676187**

Additional Info:

Year:	2000
Gen EPA ID:	CAR000081992
Shipment Date:	20001222
Creation Date:	3/6/2001 0:00:00
Receipt Date:	20001222
Manifest ID:	20381046
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0462
Waste Quantity:	11
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

C22 **CIRCLE K STORE #2705728** **UST** **U004352188**
WSW **4200 CHINO HILLS PKWY** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 10 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

UST:

Name:	CIRCLE K STORE #2705728
Address:	4200 CHINO HILLS PKWY
City,State,Zip:	CHINO HILLS, CA 91709
Facility ID:	FA0002189
Permitting Agency:	San Bernardino County Fire Department
CERSID:	10037635
Latitude:	33.9828090
Longitude:	-117.713073
Owner type:	Non-Government
Facility type:	Motor Vehicle Fueling
Num of inuse ust:	Not reported
Num of closed ust:	0
Num of oos ust:	0
Epa region:	9
Tribal lands:	No
Tank owner name:	Circle K Stores Inc.
Tank owner mailing address:	P.O. Box 52085, Attn: Environmental
Tank owner mailing city:	Phoenix
Tank owner mailing zip:	85072
Tank owner mailing state:	AZ
Tank operator name:	Circle K Stores Inc.
Tank operator mailing address:	P.O. Box 52085, Attn: Environmental

CIRCLE K STORE #2705728 (Continued) **U004352188**

Tank operator mailing city:	Phoenix
Tank operator mailing zip:	85072
Tank operator mailing state:	AZ
Tankidnumber:	1
Tank status:	Confirmed/Updated Information
Tank configuration:	Stand Alone Tank
Tank closure date:	Not reported
Tank installation date:	3/29/1991 12:00:00 AM
Tank num of compartments:	1
Tank contents:	Regular Unleaded
Tank capacity gallons:	12038
Tank type:	Double Wall
Tank pc construction:	Steel
Tank pwpiping construction:	Fiberglass
Tank piping type:	Pressure
Tank piping construction:	Double Walled
Tank sacrificial anode:	No
Tank cp impressed current:	No
Tank cp shutoff:	Yes
Tank alarms:	Yes
Tank ball float:	No
Tank spill bucket:	Yes

Name:	CIRCLE K STORE #2705728
Address:	4200 CHINO HILLS PKWY
City,State,Zip:	CHINO HILLS, CA 91709
Facility ID:	FA0002189
Permitting Agency:	San Bernardino County Fire Department
CERSID:	10037635
Latitude:	33.9828090
Longitude:	-117.713073
Owner type:	Non-Government
Facility type:	Motor Vehicle Fueling
Num of inuse ust:	Not reported
Num of closed ust:	0
Num of oos ust:	0
Epa region:	9
Tribal lands:	No
Tank owner name:	Circle K Stores Inc.
Tank owner mailing address:	P.O. Box 52085, Attn: Environmental
Tank owner mailing city:	Phoenix
Tank owner mailing zip:	85072
Tank owner mailing state:	AZ
Tank operator name:	Circle K Stores Inc.
Tank operator mailing address:	P.O. Box 52085, Attn: Environmental
Tank operator mailing city:	Phoenix
Tank operator mailing zip:	85072
Tank operator mailing state:	AZ
Tankidnumber:	2
Tank status:	Confirmed/Updated Information
Tank configuration:	Stand Alone Tank
Tank closure date:	Not reported
Tank installation date:	3/29/1991 12:00:00 AM
Tank num of compartments:	1
Tank contents:	Premium Unleaded
Tank capacity gallons:	12038
Tank type:	Double Wall

CIRCLE K STORE #2705728 (Continued) **U004352188**

Tank pc construction:	Steel
Tank pwpiping construction:	Fiberglass
Tank piping type:	Pressure
Tank piping construction:	Double Walled
Tank sacrificial anode:	No
Tank cp impressed current:	No
Tank cp shutoff:	Yes
Tank alarms:	Yes
Tank ball float:	No
Tank spill bucket:	Yes

C23 **DOLLAR TREE #03134** **RCRA NonGen / NLR** **1024841350**
WSW **4200 CHINO HILLS PKWY STE 760** **CAL000390986**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 11 of 32 in cluster C**

Relative: **Higher**
Actual: **647 ft.**

RCRA Listings:

Date Form Received by Agency:	20131106
Handler Name:	Dollar Tree #03134
Handler Address:	4200 Chino Hills Pkwy Ste 760
Handler City,State,Zip:	CHINO HILLS, CA 91709-3776
EPA ID:	CAL000390986
Contact Name:	ANGELA JONES
Contact Address:	500 VOLVO PKWY
Contact City,State,Zip:	CHESAPEAKE, VA 23320-1604
Contact Telephone:	757-321-5761
Contact Fax:	757-321-5160
Contact Email:	AJONES@DOLLARTREE.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	500 VOLVO PKWY
Mailing City,State,Zip:	CHESAPEAKE, VA 23320-1604
Owner Name:	Dollar Tree Stores, Inc.
Owner Type:	Other
Operator Name:	Angela Jones
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No

DOLLAR TREE #03134 (Continued) **1024841350**

Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180906
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: DOLLAR TREE STORES, INC.	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	500 VOLVO PKWY
Owner/Operator City,State,Zip:	CHESAPEAKE, VA 23320-1604
Owner/Operator Telephone:	757-321-5000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: ANGELA JONES	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	500 VOLVO PKWY
Owner/Operator City,State,Zip:	CHESAPEAKE, VA 23320-1604
Owner/Operator Telephone:	757-321-5761
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20131106

DOLLAR TREE #03134 (Continued) **1024841350**

Handler Name: DOLLAR TREE #03134
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 45299
NAICS Description: ALL OTHER GENERAL MERCHANDISE STORES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C24 **GOODWILL INDUSTRIES OF SOUTHERN CALIFORNIA, CHINO** **RCRA NonGen / NLR** **1026474196**
WSW **4200 CHINO HILLS PKWY 710** **CAC003079885**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 12 of 32 in cluster C**

Relative: **Higher**

Actual: **647 ft.**

RCRA Listings:
Date Form Received by Agency: 20200818
Handler Name: Goodwill Industries Of Southern California, Chino Hills #77
Handler Address: 4200 Chino Hills Pkwy 710
Handler City,State,Zip: CHINO HILLS, CA 91709
EPA ID: CAC003079885
Contact Name: JAMES CORTEZ
Contact Address: 4200 CHINO HILLS PKWY 710
Contact City,State,Zip: CHINO HILLS, CA 91709
Contact Telephone: 909-993-5014
Contact Fax: Not reported
Contact Email: EROBLES@IDRENVIRONMENTAL.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Not reported
State District Owner: Not reported
State District: Not reported
Mailing Address: 4200 CHINO HILLS PKWY 710
Mailing City,State,Zip: CHINO HILLS, CA 91709
Owner Name: Goodwill Industries Of So Cal
Owner Type: Other
Operator Name: James Cortez

GOODWILL INDUSTRIES OF SOUTHERN CALIFORNIA, CHINO HILLS #77 (Continued) **1026474196**

Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200904
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: GOODWILL INDUSTRIES OF SO CAL	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4200 CHINO HILLS PKWY 710
Owner/Operator City,State,Zip:	CHINO HILLS, CA 91709
Owner/Operator Telephone:	909-993-5014
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator

GOODWILL INDUSTRIES OF SOUTHERN CALIFORNIA, CHINO HILLS #77 (Continued) **1026474196**

Owner/Operator Name: JAMES CORTEZ
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4200 CHINO HILLS PKWY 710
Owner/Operator City,State,Zip: CHINO HILLS, CA 91709
Owner/Operator Telephone: 909-993-5014
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20200818
Handler Name: GOODWILL INDUSTRIES OF SOUTHERN CALIFORNIA, CHINO HILLS #77
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 44814
NAICS Description: FAMILY CLOTHING STORES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C25 **ECO CLEANERS** **DRYCLEANERS** **S121696778**
WSW **4200 CHINO HILLS PKY #168** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 13 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

DRYCLEAN SOUTH COAST:
Name: ECO CLEANERS
Address: 4200 CHINO HILLS PKY #168
City,State,Zip: CHINO HILLS, CA 91709
Facility ID: 184392
Application Number: 592949
Permit Number: G45958
Status: Active
Representative Name: CHANG PARK
Representative Telephone: 909 3930899
Permit Status: INACT_NR
BCAT Number: 000233
BCAT Description: DRY CLEANING EQUIP PETROLEUM SOLVENT
CCAT Number: Not reported

ECO CLEANERS (Continued) **S121696778**

CCAT Description:	Not reported
UTM East:	434.08999634
UTM North:	3760.2700195
Application Date:	03/21/2017
PO Issue Date:	03/31/2017
NAICS Code:	812320
SIC Code:	7216

C26 **SMART & FINAL #924** **RCRA NonGen / NLR** **1024854552**
WSW **4200 CHINO HILLS PKWY STE 400** **CAL000415814**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 14 of 32 in cluster C**

Relative: **Higher**
Actual: **647 ft.**

RCRA Listings:

Date Form Received by Agency:	20160401
Handler Name:	Smart & Final #924
Handler Address:	4200 Chino Hills Pkwy Ste 400
Handler City,State,Zip:	CHINO HILLS, CA 91709
EPA ID:	CAL000415814
Contact Name:	DARRYL DINSON
Contact Address:	600 CITADEL DR
Contact City,State,Zip:	COMMERCE, CA 90040-1562
Contact Telephone:	323-869-7704
Contact Fax:	323-869-7864
Contact Email:	DARRYL.DINSON@SMARTANDFINAL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 512377
Mailing City,State,Zip:	LOS ANGELES, CA 90051-0000
Owner Name:	Smart & Final Stores Corp
Owner Type:	Other
Operator Name:	Darryl Dinson
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N

SMART & FINAL #924 (Continued) **1024854552**

Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180906
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: DARRYL DINSON	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	600 CITADEL DR
Owner/Operator City,State,Zip:	COMMERCE, CA 90040-1562
Owner/Operator Telephone:	323-869-7704
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: SMART & FINAL STORES CORP	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	600 CITADEL DR
Owner/Operator City,State,Zip:	COMMERCE, CA 90040-0000
Owner/Operator Telephone:	323-869-6210
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20160401
Handler Name: SMART & FINAL #924	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported

SMART & FINAL #924 (Continued) **1024854552**

Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	45291
NAICS Description:	WAREHOUSE CLUBS AND SUPERCENTERS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

C27 **COSMOPROF BEAUTY #8789** **CERS HAZ WASTE** **S124805168**
WSW **4200 CHINO PKWY STE 835** **HWTS** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709** **HAZNET**
0.152 mi. **San Bern. Co. Permit**
802 ft. **Site 15 of 32 in cluster C**

Relative: Higher
Actual: 647 ft.

CERS HAZ WASTE:

Name:	COSMOPROF #8789
Address:	4200 CHINO PKWY STE 835
City,State,Zip:	CHINO HILLS, CA 91709
Site ID:	366922
CERS ID:	10667461
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	366922
Site Name:	COSMOPROF #8789
Violation Date:	03-05-2020
Citation:	Un-Specified
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General Local Ordinance
Violation Notes:	Returned to compliance on 03/20/2020. OBSERVATION: At time of inspection, a site map was not submitted via CERS on 2-26-2020. In addition, an emergency response/contingency plan has not been submitted via CERS. CORRECTIVE ACTION: Submit an accurate and complete site map and an emergency response/contingency plan via CERS within 30 days. Ensure site map includes: north orientation, loading areas, storm and sewer drains, access and exit points, emergency shut offs, evacuation staging areas, hazardous materials/waste storage areas and emergency response equipment.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,

Site ID:	366922
Site Name:	COSMOPROF #8789
Violation Date:	03-05-2020

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 03/05/2020. OBSERVATION: At time of inspection, observed (2) 18 gallon totes of electronic waste, (1) 18 gallon tote of oxidizer waste, (1) 18 gallon tote of waste aerosols and (2) 18 gallon totes of toxic waste with an accumulation start date of 12-7-18 on hazardous waste labels. Most recent manifest was dated 12-27-19. Incorrect accumulation start dates were labeled on all hazardous waste containers. CORRECTED ON SITE: The correct accumulation start dates were added to hazardous waste containers at time of inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-01-2023
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-05-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS,

Affiliation:

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	3207 Grey Hawk Ct, Ste 200
Affiliation City:	Carlsbad
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92010-6664
Affiliation Phone:	,

Affiliation Type Desc:	Legal Owner
Entity Name:	Sally Holdings LLC
Entity Title:	Not reported
Affiliation Address:	3001 Colorado Blvd
Affiliation City:	Denton
Affiliation State:	TX

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

Affiliation Country:	United States
Affiliation Zip:	76210
Affiliation Phone:	(940) 898-7500,
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,
Affiliation Type Desc:	Identification Signer
Entity Name:	Tristan Guison, Agent for Sally Holdings LLC
Entity Title:	Reg. Business Solutions & Services Lead, 3E
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Document Preparer
Entity Name:	Tristan Guison, Agent for Sally Holdings LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	Beauty Systems Group LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(940) 898-7500,
Affiliation Type Desc:	Parent Corporation
Entity Name:	Sally Holdings LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	DEBBIE MIDDLETON
Entity Title:	Not reported

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

Affiliation Address:	3001 Colorado Blvd
Affiliation City:	Denton
Affiliation State:	TX
Affiliation Country:	Not reported
Affiliation Zip:	76210
Affiliation Phone:	,

HWTS:

Name:	GOODWILL INDUSTRIES OF SOUTHERN CALIFORNIA, CHINO HILLS #77
Address:	4200 CHINO HILLS PKWY 710
Address 2:	Not reported
City,State,Zip:	CHINO HILLS, CA 91709
EPA ID:	CAC003079885
Inactive Date:	11/17/2020
Create Date:	08/18/2020
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	4200 CHINO HILLS PKWY 710
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CHINO HILLS, CA 91709
Owner Name:	GOODWILL INDUSTRIES OF SO CAL
Owner Address:	4200 CHINO HILLS PKWY 710
Owner Address 2:	Not reported
Owner City,State,Zip:	CHINO HILLS, CA 91709
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	JAMES CORTEZ
Contact Address:	4200 CHINO HILLS PKWY 710
Contact Address 2:	Not reported
City,State,Zip:	CHINO HILLS, CA 91709
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	TEMPORARY
Category:	STATE
Latitude:	33.98281999
Longitude:	-117.71303002

NAICS:

EPA ID:	CAC003079885
Create Date:	2020-08-18 14:26:19.990
NAICS Code:	44814
NAICS Description:	Family Clothing Stores
Issued EPA ID Date:	2020-08-18 14:26:20.00700
Inactive Date:	2020-11-17 14:26:19.97700
Facility Name:	GOODWILL INDUSTRIES OF SOUTHERN CALIFORNIA, CHINO HILLS #77
Facility Address:	4200 CHINO HILLS PKWY 710
Facility Address 2:	Not reported
Facility City:	CHINO HILLS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	91709

Name:	GOODWILL STORE #77 CHINO HILLS
Address:	4200 CHINO HILLS PKWY STE. 710

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

Address 2:	Not reported
City,State,Zip:	CHINO HILLS, CA 91709
EPA ID:	CAC003260414
Inactive Date:	Not reported
Create Date:	11/09/2023
Last Act Date:	11/09/2023
Mailing Name:	Not reported
Mailing Address:	342 N. SAN FERNANDO RD.
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LOS ANGELES, CA
Owner Name:	GOODWILL INDUSTRIES OF SOUTHERN CAL
Owner Address:	342 N. SAN FERNANDO RD.
Owner Address 2:	Not reported
Owner City,State,Zip:	LOS ANGELES, CA 90031
Owner Phone:	3232231211
Owner Fax:	Not reported
Contact Name:	GIOVANNA MORENO
Contact Address:	342 N. SAN FERNANDO RD.
Contact Address 2:	Not reported
City,State,Zip:	LOS ANGELES, CA 90031
Contact Phone:	3239742057
Contact Fax:	Not reported
Facility Status:	Not reported
Facility Type:	Not reported
Category:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Name:	MARTIN CHIROPRATIC
Address:	4200 CHINO HILLS PARKWAY
Address 2:	Not reported
City,State,Zip:	CHINO HILLS, CA 91709
EPA ID:	CAL000127321
Inactive Date:	06/30/1999
Create Date:	07/19/1994
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	4200 CHINO HILLS PKWY
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CHINO HILLS, CA 917090000
Owner Name:	MARTIN, DAVID
Owner Address:	4200 CHINO HILLS PKWY
Owner Address 2:	Not reported
Owner City,State,Zip:	CHINO HILLS, CA
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	DAVID MARTIN /OWNER
Contact Address:	INACTIVE PER VQ99 - BMI
Contact Address 2:	Not reported
City,State,Zip:	CHINO HILLS, CA
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	33.982678
Longitude:	-117.715074

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

Name:	COSMOPROF BEAUTY #8789
Address:	4200 CHINO PKWY STE 835
Address 2:	Not reported
City,State,Zip:	CHINO HILLS, CA 91709
EPA ID:	CAL000412111
Inactive Date:	Not reported
Create Date:	11/04/2015
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	3207 GREY HAWK CT, SUITE 200
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CARLSBAD, CA 920100000
Owner Name:	SALLY HOLDINGS LLC
Owner Address:	3001 COLORADO BLVD
Owner Address 2:	Not reported
Owner City,State,Zip:	DENTON, TX 76210
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	DEBBIE MIDDLETON
Contact Address:	3001 COLORADO BLVD
Contact Address 2:	Not reported
City,State,Zip:	DENTON, TX 762100000
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Active
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.01172612
Longitude:	-117.7128119

NAICS:

EPA ID:	CAL000412111
Create Date:	2015-11-04 14:44:56.510
NAICS Code:	44612
NAICS Description:	Cosmetics, Beauty Supplies, and Perfume Stores
Issued EPA ID Date:	2015-11-04 14:44:56.47000
Inactive Date:	Not reported
Facility Name:	COSMOPROF BEAUTY #8789
Facility Address:	4200 CHINO PKWY STE 835
Facility Address 2:	Not reported
Facility City:	CHINO HILLS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	91709

HAZNET:

Name:	COSMOPROF BEAUTY #8789
Address:	4200 CHINO PKWY STE 835
Address 2:	Not reported
City,State,Zip:	CHINO HILLS, CA 91709
Contact:	DEBBIE MIDDLETON
Telephone:	9402974964
Mailing Name:	Not reported
Mailing Address:	3207 GREY HAWK CT SUITE 200

Year: 2021

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

Gepaid: CAL000412111
TSD EPA ID: NVT330010000
CA Waste Code: 791 - Liquids with pH <= 2
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.009

Year: 2021
Gepaid: CAL000412111
TSD EPA ID: NVT330010000
CA Waste Code: 122 - Alkaline solution without metals pH >= 12.5
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.0175

Year: 2021
Gepaid: CAL000412111
TSD EPA ID: NVT330010000
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0075

Year: 2021
Gepaid: CAL000412111
TSD EPA ID: NVT330010000
CA Waste Code: 131 - Aqueous solution (2 < pH < 12.5) containing reactive anions ...
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.0145

Year: 2021
Gepaid: CAL000412111
TSD EPA ID: NVT330010000
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.076

Year: 2020
Gepaid: CAL000412111
TSD EPA ID: NVT330010000
CA Waste Code: 131 - Aqueous solution (2 < pH < 12.5) containing reactive anions ...
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.0355

Year: 2020
Gepaid: CAL000412111
TSD EPA ID: NVT330010000
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.0915

Year: 2020
Gepaid: CAL000412111

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

TSD EPA ID: NVT330010000
CA Waste Code: 141 - Off-specification, aged or surplus inorganics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.002

Year: 2020
Gepaid: CAL000412111
TSD EPA ID: NVT330010000
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.03

Additional Info:
Year: 2021
Gen EPA ID: CAL000412111

Shipment Date: 8/12/2020
Creation Date: 9/3/2020
Receipt Date: 8/25/2020
Manifest ID: 022022267JJK
Trans EPA ID: MIK435642742
Trans Name: EQ INDUSTRIAL SERVICES INC
Trans 2 EPA ID: MOD095038998
Trans 2 Name: BED ROCK INC DBA TRI STATE MOTOR TRANSIT CO
TSDF EPA ID: NVT330010000
Trans Name: US ECOLOGY NEVADA, INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 131 - Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions
RCRA Code: D001,D002
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons: 0.0165
Waste Quantity: 33
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 8/12/2020
Creation Date: 9/3/2020
Receipt Date: 8/25/2020
Manifest ID: 022022267JJK
Trans EPA ID: MIK435642742
Trans Name: EQ INDUSTRIAL SERVICES INC
Trans 2 EPA ID: MOD095038998
Trans 2 Name: BED ROCK INC DBA TRI STATE MOTOR TRANSIT CO
TSDF EPA ID: NVT330010000
Trans Name: US ECOLOGY NEVADA, INC
TSDF Alt EPA ID: Not reported

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.0485
Waste Quantity:	97
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	8/12/2020
Creation Date:	9/3/2020
Receipt Date:	8/25/2020
Manifest ID:	022022267JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	BED ROCK INC DBA TRI STATE MOTOR TRANSIT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA, INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0175
Waste Quantity:	35
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	8/12/2020
Creation Date:	9/3/2020
Receipt Date:	8/25/2020
Manifest ID:	022022267JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	BED ROCK INC DBA TRI STATE MOTOR TRANSIT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA, INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001,D018,D035,
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.003
Waste Quantity:	6

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	11/25/2020
Creation Date:	12/11/2020
Receipt Date:	12/1/2020
Manifest ID:	022022730JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	BED ROCK INC DBA TRI STATE MOTOR TRANSIT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA, INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.002
Waste Quantity:	4
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	11/25/2020
Creation Date:	12/11/2020
Receipt Date:	12/1/2020
Manifest ID:	022022730JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	BED ROCK INC DBA TRI STATE MOTOR TRANSIT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA, INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.003
Waste Quantity:	6
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

Shipment Date:	11/25/2020
Creation Date:	12/11/2020
Receipt Date:	12/1/2020
Manifest ID:	022022730JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	BED ROCK INC DBA TRI STATE MOTOR TRANSIT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA, INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.043
Waste Quantity:	86
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	11/25/2020
Creation Date:	12/11/2020
Receipt Date:	12/1/2020
Manifest ID:	022022730JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	BED ROCK INC DBA TRI STATE MOTOR TRANSIT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA, INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	131 - Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions
RCRA Code:	D001,D002
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.019
Waste Quantity:	38
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	11/25/2020
Creation Date:	12/11/2020
Receipt Date:	12/1/2020
Manifest ID:	022022730JJK
Trans EPA ID:	MIK435642742

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

Trans Name:	EQ INDUSTRIAL SERVICES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	BED ROCK INC DBA TRI STATE MOTOR TRANSIT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA, INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001,D018,D035,
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0065
Waste Quantity:	13
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2020
Gen EPA ID:	CAL000412111
Shipment Date:	8/12/2020
Creation Date:	9/3/2020
Receipt Date:	8/25/2020
Manifest ID:	022022267JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	BED ROCK INC DBA TRI STATE MOTOR TRANSIT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA, INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.0485
Waste Quantity:	97
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	8/12/2020
Creation Date:	9/3/2020
Receipt Date:	8/25/2020
Manifest ID:	022022267JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	BED ROCK INC DBA TRI STATE MOTOR TRANSIT CO

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA, INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0175
Waste Quantity:	35
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	8/12/2020
Creation Date:	9/3/2020
Receipt Date:	8/25/2020
Manifest ID:	022022267JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	BED ROCK INC DBA TRI STATE MOTOR TRANSIT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA, INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001,D018,D035,
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.003
Waste Quantity:	6
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	8/12/2020
Creation Date:	9/3/2020
Receipt Date:	8/25/2020
Manifest ID:	022022267JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	BED ROCK INC DBA TRI STATE MOTOR TRANSIT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA, INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	131 - Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

RCRA Code:	D001,D002
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.0165
Waste Quantity:	33
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	11/25/2020
Creation Date:	12/11/2020
Receipt Date:	12/1/2020
Manifest ID:	022022730JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	BED ROCK INC DBA TRI STATE MOTOR TRANSIT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA, INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.002
Waste Quantity:	4
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	11/25/2020
Creation Date:	12/11/2020
Receipt Date:	12/1/2020
Manifest ID:	022022730JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	BED ROCK INC DBA TRI STATE MOTOR TRANSIT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA, INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.003
Waste Quantity:	6
Quantity Unit:	P
Additional Code 1:	Not reported

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	11/25/2020
Creation Date:	12/11/2020
Receipt Date:	12/1/2020
Manifest ID:	022022730JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	BED ROCK INC DBA TRI STATE MOTOR TRANSIT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA, INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.043
Waste Quantity:	86
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	11/25/2020
Creation Date:	12/11/2020
Receipt Date:	12/1/2020
Manifest ID:	022022730JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	BED ROCK INC DBA TRI STATE MOTOR TRANSIT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA, INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001,D018,D035,
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0065
Waste Quantity:	13
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	11/25/2020
Creation Date:	12/11/2020

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

Receipt Date:	12/1/2020
Manifest ID:	022022730JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	BED ROCK INC DBA TRI STATE MOTOR TRANSIT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA, INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	131 - Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions
RCRA Code:	D001,D002
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.019
Waste Quantity:	38
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Detail Two:

Year:	2020
EM Manifest ID:	c721143f-450c-4f80-8f9a-68bc6d122b64
Shipment Date:	8/12/2020
Receipt Date:	8/25/2020
Manifest Number:	022022267JJK
Generator EPA ID:	CAL000412111
Name:	COSMOPROF BEAUTY
Address:	4200 CHINO PKWY STE 835
Address 2:	Not reported
City:	CHINO HILLS
Zip:	91709
Telephone:	800-451-8346
Contact:	Not reported
Contact Telephone:	800-451-8346
Transporter 1 EPA ID:	MIK435642742
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MOD095038998
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	NVT330010000
TSDF Name:	US ECOLOGY NEVADA, INC
TSDF Address 1:	HWY 95 11 MI S OF BEATTY
TSDF Address 2:	Not reported
TSDF City:	BEATTY
TSDF Zip:	89003
TSDF Telephone:	800-839-3975

Federal:

Year:	2020
EM Manifest ID:	c721143f-450c-4f80-8f9a-68bc6d122b64
Generator EPA ID:	CAL000412111
Shipment Date:	2020-08-12

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

Manifest Number:	022022267JJK
Line Number:	1
Method Code:	H141
Quantity Tons:	0.01750
Quantity Waste:	35.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D001

Year:	2020
EM Manifest ID:	c721143f-450c-4f80-8f9a-68bc6d122b64
Generator EPA ID:	CAL000412111
Shipment Date:	2020-08-12
Manifest Number:	022022267JJK
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00300
Quantity Waste:	6.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D001

Year:	2020
EM Manifest ID:	c721143f-450c-4f80-8f9a-68bc6d122b64
Generator EPA ID:	CAL000412111
Shipment Date:	2020-08-12
Manifest Number:	022022267JJK
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00300
Quantity Waste:	6.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D018

Year:	2020
EM Manifest ID:	c721143f-450c-4f80-8f9a-68bc6d122b64
Generator EPA ID:	CAL000412111
Shipment Date:	2020-08-12
Manifest Number:	022022267JJK
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00300
Quantity Waste:	6.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D035

Year:	2020

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

EM Manifest ID:	c721143f-450c-4f80-8f9a-68bc6d122b64
Generator EPA ID:	CAL000412111
Shipment Date:	2020-08-12
Manifest Number:	022022267JJK
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00300
Quantity Waste:	6.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	U002

Year:	2020
EM Manifest ID:	c721143f-450c-4f80-8f9a-68bc6d122b64
Generator EPA ID:	CAL000412111
Shipment Date:	2020-08-12
Manifest Number:	022022267JJK
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00300
Quantity Waste:	6.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	U112

Year:	2020
EM Manifest ID:	c721143f-450c-4f80-8f9a-68bc6d122b64
Generator EPA ID:	CAL000412111
Shipment Date:	2020-08-12
Manifest Number:	022022267JJK
Line Number:	3
Method Code:	H132
Quantity Tons:	0.01650
Quantity Waste:	33.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D001

Year:	2020
EM Manifest ID:	c721143f-450c-4f80-8f9a-68bc6d122b64
Generator EPA ID:	CAL000412111
Shipment Date:	2020-08-12
Manifest Number:	022022267JJK
Line Number:	3
Method Code:	H132
Quantity Tons:	0.01650
Quantity Waste:	33.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

Federal Code: D002

State:

Year:	2020
EM Manifest ID:	c721143f-450c-4f80-8f9a-68bc6d122b64
Generator EPA ID:	CAL000412111
Shipment Date:	2020-08-12
Manifest Number:	022022267JJK
Line Number:	1
Method Code:	H141
Quantity Tons:	0.01750
Quantity Waste:	35.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
State Code:	331

Year:	2020
EM Manifest ID:	c721143f-450c-4f80-8f9a-68bc6d122b64
Generator EPA ID:	CAL000412111
Shipment Date:	2020-08-12
Manifest Number:	022022267JJK
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00300
Quantity Waste:	6.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
State Code:	331

Year:	2020
EM Manifest ID:	c721143f-450c-4f80-8f9a-68bc6d122b64
Generator EPA ID:	CAL000412111
Shipment Date:	2020-08-12
Manifest Number:	022022267JJK
Line Number:	3
Method Code:	H132
Quantity Tons:	0.01650
Quantity Waste:	33.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
State Code:	131

Year:	2020
EM Manifest ID:	c721143f-450c-4f80-8f9a-68bc6d122b64
Generator EPA ID:	CAL000412111
Shipment Date:	2020-08-12
Manifest Number:	022022267JJK
Line Number:	4
Method Code:	H039
Quantity Tons:	0.04850
Quantity Waste:	97.000000

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

Quantity Unit:	P
Number of Containers:	3
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	331

Year:	2020
EM Manifest ID:	9bb2163d-e393-42bc-8991-ed7f0c27b4a9
Shipment Date:	11/25/2020
Receipt Date:	12/1/2020
Manifest Number:	022022730JJK
Generator EPA ID:	CAL000412111
Name:	COSMOPROF BEAUTY
Address:	4200 CHINO PKWY STE 835
Address 2:	Not reported
City:	CHINO HILLS
Zip:	91709
Telephone:	800-451-8346
Contact:	Not reported
Contact Telephone:	800-451-8346
Transporter 1 EPA ID:	MIK435642742
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MOD095038998
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	NVT330010000
TSDF Name:	US ECOLOGY NEVADA, INC
TSDF Address 1:	HWY 95 11 MI S OF BEATTY
TSDF Address 2:	Not reported
TSDF City:	BEATTY
TSDF Zip:	89003
TSDF Telephone:	800-839-3975

Federal:

Year:	2020
EM Manifest ID:	9bb2163d-e393-42bc-8991-ed7f0c27b4a9
Generator EPA ID:	CAL000412111
Shipment Date:	2020-11-25
Manifest Number:	022022730JJK
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00300
Quantity Waste:	6.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D001

Year:	2020
EM Manifest ID:	9bb2163d-e393-42bc-8991-ed7f0c27b4a9
Generator EPA ID:	CAL000412111
Shipment Date:	2020-11-25
Manifest Number:	022022730JJK
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00650
Quantity Waste:	13.000000

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

Quantity Unit: P
Number of Containers: 1
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
Federal Code: D001

Year: 2020
EM Manifest ID: 9bb2163d-e393-42bc-8991-ed7f0c27b4a9
Generator EPA ID: CAL000412111
Shipment Date: 2020-11-25
Manifest Number: 022022730JJK
Line Number: 2
Method Code: H141
Quantity Tons: 0.00650
Quantity Waste: 13.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
Federal Code: D018

Year: 2020
EM Manifest ID: 9bb2163d-e393-42bc-8991-ed7f0c27b4a9
Generator EPA ID: CAL000412111
Shipment Date: 2020-11-25
Manifest Number: 022022730JJK
Line Number: 2
Method Code: H141
Quantity Tons: 0.00650
Quantity Waste: 13.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
Federal Code: D035

Year: 2020
EM Manifest ID: 9bb2163d-e393-42bc-8991-ed7f0c27b4a9
Generator EPA ID: CAL000412111
Shipment Date: 2020-11-25
Manifest Number: 022022730JJK
Line Number: 2
Method Code: H141
Quantity Tons: 0.00650
Quantity Waste: 13.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
Federal Code: U002

Year: 2020
EM Manifest ID: 9bb2163d-e393-42bc-8991-ed7f0c27b4a9
Generator EPA ID: CAL000412111
Shipment Date: 2020-11-25
Manifest Number: 022022730JJK
Line Number: 2

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

Method Code:	H141
Quantity Tons:	0.00650
Quantity Waste:	13.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	U112
Year:	2020
EM Manifest ID:	9bb2163d-e393-42bc-8991-ed7f0c27b4a9
Generator EPA ID:	CAL000412111
Shipment Date:	2020-11-25
Manifest Number:	022022730JJK
Line Number:	3
Method Code:	H132
Quantity Tons:	0.01900
Quantity Waste:	38.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D001
Year:	2020
EM Manifest ID:	9bb2163d-e393-42bc-8991-ed7f0c27b4a9
Generator EPA ID:	CAL000412111
Shipment Date:	2020-11-25
Manifest Number:	022022730JJK
Line Number:	3
Method Code:	H132
Quantity Tons:	0.01900
Quantity Waste:	38.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D002
Year:	2020
EM Manifest ID:	9bb2163d-e393-42bc-8991-ed7f0c27b4a9
Generator EPA ID:	CAL000412111
Shipment Date:	2020-11-25
Manifest Number:	022022730JJK
Line Number:	4
Method Code:	H141
Quantity Tons:	0.00200
Quantity Waste:	4.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D001

State:

Year:	2020
EM Manifest ID:	9bb2163d-e393-42bc-8991-ed7f0c27b4a9

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

Generator EPA ID:	CAL000412111
Shipment Date:	2020-11-25
Manifest Number:	022022730JJK
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00300
Quantity Waste:	6.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
State Code:	331

Year:	2020
EM Manifest ID:	9bb2163d-e393-42bc-8991-ed7f0c27b4a9
Generator EPA ID:	CAL000412111
Shipment Date:	2020-11-25
Manifest Number:	022022730JJK
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00650
Quantity Waste:	13.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
State Code:	331

Year:	2020
EM Manifest ID:	9bb2163d-e393-42bc-8991-ed7f0c27b4a9
Generator EPA ID:	CAL000412111
Shipment Date:	2020-11-25
Manifest Number:	022022730JJK
Line Number:	3
Method Code:	H132
Quantity Tons:	0.01900
Quantity Waste:	38.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
State Code:	131

Year:	2020
EM Manifest ID:	9bb2163d-e393-42bc-8991-ed7f0c27b4a9
Generator EPA ID:	CAL000412111
Shipment Date:	2020-11-25
Manifest Number:	022022730JJK
Line Number:	4
Method Code:	H141
Quantity Tons:	0.00200
Quantity Waste:	4.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
State Code:	141

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

Year:	2020
EM Manifest ID:	9bb2163d-e393-42bc-8991-ed7f0c27b4a9
Generator EPA ID:	CAL000412111
Shipment Date:	2020-11-25
Manifest Number:	022022730JJK
Line Number:	5
Method Code:	H039
Quantity Tons:	0.04300
Quantity Waste:	86.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	331

San Bern. Co. Permit:

Name:	COSMOPROF SUPPLY
Address:	4200 CHINO PKY STE 385
City,State,Zip:	CHINO HILLS, CA 91709
Region:	SAN BERNARDINO
Facility ID:	FA0017492
Owner:	SALLY HOLDINGS LLC
Permit Number:	PT0037464
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status:	ACTIVE
Expiration Date:	08/31/2024

Name:	COSMOPROF SUPPLY
Address:	4200 CHINO PKY STE 385
City,State,Zip:	CHINO HILLS, CA 91709
Region:	SAN BERNARDINO
Facility ID:	FA0017492
Owner:	SALLY HOLDINGS LLC
Permit Number:	PT0038059
Permit Category:	HAZMAT HANDLER GENERAL ACT.(NB)
Facility Status:	INACTIVE
Expiration Date:	08/31/2018

Name:	CIRCLE K STORE #2705728
Address:	4200 CHINO HILLS PKY
City,State,Zip:	CHINO HILLS, CA 91709
Region:	SAN BERNARDINO
Facility ID:	FA0002189
Owner:	CIRCLE K STORES INC.
Permit Number:	PT0010314
Permit Category:	REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status:	ACTIVE
Expiration Date:	10/31/2024

Name:	CIRCLE K STORE #2705728
Address:	4200 CHINO HILLS PKY
City,State,Zip:	CHINO HILLS, CA 91709
Region:	SAN BERNARDINO
Facility ID:	FA0002189
Owner:	CIRCLE K STORES INC.
Permit Number:	PT0010315

COSMOPROF BEAUTY #8789 (Continued) **S124805168**

Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: ACTIVE
Expiration Date: 10/31/2024

Name: CIRCLE K STORE #2705728
Address: 4200 CHINO HILLS PKY
City,State,Zip: CHINO HILLS, CA 91709
Region: SAN BERNARDINO
Facility ID: FA0002189
Owner: CIRCLE K STORES INC.
Permit Number: PT0014302
Permit Category: WASTE INCIDENTAL UST OPERATION ONLY -PER YEAR
Facility Status: ACTIVE
Expiration Date: 10/31/2024

Name: CIRCLE K STORE #2705728
Address: 4200 CHINO HILLS PKY
City,State,Zip: CHINO HILLS, CA 91709
Region: SAN BERNARDINO
Facility ID: FA0002189
Owner: CIRCLE K STORES INC.
Permit Number: PT0005242
Permit Category: HAZMAT HANDLER, UST ONLY - PER YEAR
Facility Status: ACTIVE
Expiration Date: 10/31/2024

C28 **VONS STORE NO 2597** **RCRA NonGen / NLR** **1014950699**
WSW **4200 CHINO HILLS PKWY** **CAR000227389**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 16 of 32 in cluster C**

Relative: **Higher**
Actual: **647 ft.**

RCRA Listings:

Date Form Received by Agency:	20150402
Handler Name:	Vons Store No 2597
Handler Address:	4200 Chino Hills Pkwy
Handler City,State,Zip:	CHINO HILLS, CA 91709
EPA ID:	CAR000227389
Contact Name:	KEITH B POWERS
Contact Address:	5918 STONERIDGE MALL RD
Contact City,State,Zip:	PLEASANTON, CA 94588
Contact Telephone:	925-226-5655
Contact Fax:	Not reported
Contact Email:	KEITH.POWERS@SAFEWAY.COM
Contact Title:	ENV COMPLIANCE MGR
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	5918 STONERIDGE MALL RD
Mailing City,State,Zip:	PLEASANTON, CA 94588
Owner Name:	Wri Chino Hills Llc
Owner Type:	Private

VONS STORE NO 2597 (Continued) **1014950699**

Operator Name:	Vons
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150422
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste
Waste Code:	D002
Waste Description:	Corrosive Waste
Waste Code:	P001
Waste Description:	2h-1-Benzopyran-2-One, 4-Hydroxy-3-(3-Oxo-1-Phenylbutyl)-, & Salts, When Present At Concentrations Greater Than 0.3% (Or) Warfarin, & Salts, When Present At Concentrations Greater Than 0.3%
Waste Code:	P075

VONS STORE NO 2597 (Continued) **1014950699**

Waste Description: Nicotine, & Salts (Or) Pyridine, 3-(1-Methyl-2-Pyrrolidinyl)-,(S)-, & Salts

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: VONS	
Legal Status:	Private
Date Became Current:	20020108
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: VONS	
Legal Status:	Private
Date Became Current:	20020108
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: WRI CHINO HILLS LLC	
Legal Status:	Private
Date Became Current:	20020101
Date Ended Current:	Not reported
Owner/Operator Address:	C O WEINGARTEN REALTY INV INC
Owner/Operator City,State,Zip:	HOUSTON, TX 77292
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: VONS	
Legal Status:	Private
Date Became Current:	20020108
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: WRI CHINO HILLS LLC	
Legal Status:	Private
Date Became Current:	20020101
Date Ended Current:	Not reported

VONS STORE NO 2597 (Continued) **1014950699**

Owner/Operator Address: C O WEINGARTEN REALTY INV INC
Owner/Operator City,State,Zip: HOUSTON, TX 77292
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: VONS
Legal Status: Private
Date Became Current: 20020108
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: WRI CHINO HILLS LLC
Legal Status: Private
Date Became Current: 20020101
Date Ended Current: Not reported
Owner/Operator Address: C O WEINGARTEN REALTY INV INC
Owner/Operator City,State,Zip: HOUSTON, TX 77292
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: WRI CHINO HILLS LLC
Legal Status: Private
Date Became Current: 20020101
Date Ended Current: Not reported
Owner/Operator Address: C O WEINGARTEN REALTY INV INC
Owner/Operator City,State,Zip: HOUSTON, TX 77292
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20120531
Handler Name: VONS STORE NO 2597
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

VONS STORE NO 2597 (Continued) **1014950699**

Receive Date: 20121011
Handler Name: VONS STORE NO 2597
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20130723
Handler Name: VONS STORE NO 2597
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150402
Handler Name: VONS STORE NO 2597
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 44511
NAICS Description: SUPERMARKETS AND OTHER GROCERY RETAILERS (EXCEPT CONVENIENCE RETAILERS)

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C29
WSW
1/8-1/4
0.152 mi.
802 ft.

POUNDS OFF MEDICAL CENTER
4200 CHINO HILLS PKWY #635
CHINO HILLS, CA 91709

Site 17 of 32 in cluster C

RCRA NonGen / NLR

1026492824
CAL000457622

Relative:
Higher

Actual:
647 ft.

RCRA Listings:

Date Form Received by Agency:	20201022
Handler Name:	Pounds Off Medical Center
Handler Address:	4200 Chino Hills Pkwy #635
Handler City,State,Zip:	CHINO HILLS, CA 91709
EPA ID:	CAL000457622
Contact Name:	ISH PENDI
Contact Address:	19815 VIA MONITA
Contact City,State,Zip:	YORBA LINDA, CA 92887
Contact Telephone:	714-777-8221
Contact Fax:	714-777-8221
Contact Email:	IPENDI110@GMAIL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	4200 CHINO HILLS PKWY #635
Mailing City,State,Zip:	CHINO HILLS, CA 91709
Owner Name:	Ish Pendi
Owner Type:	Other
Operator Name:	Ish Pendi
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

POUNDS OFF MEDICAL CENTER (Continued) **1026492824**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20201026
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: ISH PENDI	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	19815 VIA MONITA
Owner/Operator City,State,Zip:	YORBA LINDA, CA 92887
Owner/Operator Telephone:	714-777-8221
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: ISH PENDI	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	19815 VIA MONITA
Owner/Operator City,State,Zip:	YORBA LINDA, CA 92887
Owner/Operator Telephone:	714-777-8221
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20201022
Handler Name: POUNDS OFF MEDICAL CENTER	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

POUNDS OFF MEDICAL CENTER (Continued) **1026492824**

List of NAICS Codes and Descriptions:
NAICS Code: 621493
NAICS Description: FREESTANDING AMBULATORY SURGICAL AND EMERGENCY CENTERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C30 **MARKET PLACE CLEANERS** **DRYCLEANERS** **S121699629**
WSW **4200 CHINO HILLS PKY #168** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 18 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

DRYCLEAN SOUTH COAST:

Name:	MARKET PLACE CLEANERS
Address:	4200 CHINO HILLS PKY #168
City,State,Zip:	CHINO HILLS, CA 91709
Facility ID:	80140
Application Number:	232823
Permit Number:	D33106
Status:	Sold
Representative Name:	OH CHUL HO
Representative Telephone:	909 3930866
Permit Status:	EXPIRED
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	434.08999634
UTM North:	3760.2700195
Application Date:	07/02/1990
PO Issue Date:	10/18/1990
NAICS Code:	812320
SIC Code:	7216

Name:	MARKET PLACE CLEANERS
Address:	4200 CHINO HILLS PKY #168
City,State,Zip:	CHINO HILLS, CA 91709
Facility ID:	80140
Application Number:	292150
Permit Number:	D87339
Status:	Sold
Representative Name:	OH CHUL HO
Representative Telephone:	909 3930866
Permit Status:	INACTIVE
BCAT Number:	000601
BCAT Description:	DRY CLEANING, DRY-TO-DRY NON-VENT, PERC
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	434.08999634
UTM North:	3760.2700195
Application Date:	04/26/1994

MARKET PLACE CLEANERS (Continued) **S121699629**

PO Issue Date: 12/22/1994
NAICS Code: 812320
SIC Code: 7216

Name: MARKET PLACE CLEANERS
Address: 4200 CHINO HILLS PKY #168
City,State,Zip: CHINO HILLS, CA 91709
Facility ID: 80140
Application Number: 411066
Permit Number: F58303
Status: Sold
Representative Name: OH CHUL HO
Representative Telephone: 909 3930866
Permit Status: INACTIVE
BCAT Number: 000603
BCAT Description: DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 434.08999634
UTM North: 3760.2700195
Application Date: 01/23/2003
PO Issue Date: 02/04/2003
NAICS Code: 812320
SIC Code: 7216

Name: MARKET PLACE CLEANERS
Address: 4200 CHINO HILLS PKY #168
City,State,Zip: CHINO HILLS, CA 91709
Facility ID: 80140
Application Number: 456796
Permit Number: F82374
Status: Sold
Representative Name: OH CHUL HO
Representative Telephone: 909 3930866
Permit Status: INACTIVE
BCAT Number: 000233
BCAT Description: DRY CLEANING EQUIP PETROLEUM SOLVENT
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 434.08999634
UTM North: 3760.2700195
Application Date: 05/04/2006
PO Issue Date: 05/30/2006
NAICS Code: 812320
SIC Code: 7216

C31 **ECO CLEANERS** **CERS HAZ WASTE** **S104768027**
WSW **4200 CHINO HILLS PKY STE 168** **San Bern. Co. Permit** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709** **CERS**
0.152 mi.
802 ft. **Site 19 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

CERS HAZ WASTE:
Name: ECO CLEANERS
Address: 4200 CHINO HILLS PKY STE 168
City,State,Zip: CHINO HILLS, CA 91709
Site ID: 133000
CERS ID: 10041754

ECO CLEANERS (Continued) **S104768027**

CERS Description: Hazardous Waste Generator

San Bern. Co. Permit:
Name: ECO CLEANERS
Address: 4200 CHINO HILLS PKY STE 168
City,State,Zip: CHINO HILLS, CA 91709
Region: SAN BERNARDINO
Facility ID: FA0004589
Owner: sun H. Park
Permit Number: PT0006018
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 11/30/2023

Name: ECO CLEANERS
Address: 4200 CHINO HILLS PKY STE 168
City,State,Zip: CHINO HILLS, CA 91709
Region: SAN BERNARDINO
Facility ID: FA0004589
Owner: sun H. Park
Permit Number: PT0006019
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status: ACTIVE
Expiration Date: 11/30/2023

CERS:
Name: ECO CLEANERS
Address: 4200 CHINO HILLS PKY STE 168
City,State,Zip: CHINO HILLS, CA 91709
Site ID: 133000
CERS ID: 10041754
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 133000
Site Name: Eco Cleaners
Violation Date: 04-01-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Failure to establish a Contingency Plan (CCR 66265.51(a)) Contingency Plans are required to be established for facilities which generate any amount of hazardous waste. A Contingency Plan has not been established for this facility. Compliance Requirement: -Using the California Environmental Reporting System (CERS), electronically submit the Business Plan elements submitted to the statewide information management system. The website is located at http://cers.calepa.ca.gov/.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 133000
Site Name: Eco Cleaners
Violation Date: 09-11-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple

ECO CLEANERS (Continued) **S104768027**

Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 12/22/2017. Failure to obtain a CUPA Hazardous Waste Generator Permit (SBCC 23.0602(b)(1)) CUPA permits were expired at the time of the inspection. Compliance Requirement: Sign the Certificate of Compliance in attestation that the new ownership has paid the permit invoice upon receipt.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	133000
Site Name:	Eco Cleaners
Violation Date:	09-11-2017
Citation:	Un-Specified
Violation Description:	Business Plan Program - Administration/Documentation - General Local Ordinance
Violation Notes:	Returned to compliance on 12/22/2017. Failure to obtain a CUPA Hazardous Materials Handler permit (SBCC 23.0602(a)) CUPA permits were expired at the time of the inspection. Compliance Requirement: Sign the Certificate of Compliance in attestation that the new ownership has paid the permit invoice upon receipt.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	133000
Site Name:	Eco Cleaners
Violation Date:	12-01-2020
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	OBSERVATION: The CERS business plan was last updated on 10/4/2017. The plan is required to be updated annually before March 1. CORRECTIVE ACTION: Review your CERS account and submit an update to CERS within 30 days.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	133000
Site Name:	Eco Cleaners
Violation Date:	04-01-2015
Citation:	HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description:	Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	This facility has not submitted the Business Plan elements into CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	133000
Site Name:	Eco Cleaners

ECO CLEANERS (Continued) **S104768027**

Violation Date:	08-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	NON INSPECTION RELATED VIOLATION
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	133000
Site Name:	Eco Cleaners
Violation Date:	12-01-2020
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	OBSERVATION: The CERS hazardous materials inventory submitted in 2017 was found to be incomplete and was rejected. Add the 55 gallon drums of waste solvent and filters to the hazardous materials inventory. CORRECTIVE ACTION: Submit an updated hazardous materials inventory to include the 55 gallon drums of waste solvent and filters.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	133000
Site Name:	Eco Cleaners
Violation Date:	09-11-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Failure to establish a Contingency Plan (CCR 66265.51(a)) Facility's new ownership has not submitted a contingency plan to this division. Compliance Requirement: Sign the provided Certificate of Compliance in attestation that a contingency plan has been submitted via CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	133000
Site Name:	Eco Cleaners
Violation Date:	04-01-2015
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	This facility has not established a Business Plan.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	133000
Site Name:	Eco Cleaners

ECO CLEANERS (Continued) **S104768027**

Violation Date:	09-11-2017
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Facility's new ownership has not submitted a hazardous materials business plan via the California Environmental Reporting System (CERS). Compliance Requirement: Sign the provided Certificate of Compliance in attestation that a hazardous materials business plan has been submitted via CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	133000
Site Name:	Eco Cleaners
Violation Date:	12-01-2020
Citation:	Un-Specified
Violation Description:	Business Plan Program - Administration/Documentation - General Local Ordinance
Violation Notes:	OBSERVATION: The hazardous materials permits were found to have expired. CORRECTIVE ACTION: Ensure that payment is submitted for the hazardous materials permits.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	133000
Site Name:	Eco Cleaners
Violation Date:	12-01-2020
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	OBSERVATION: An emergency response plan was not submitted in CERS. A copy of the 2017 inspection report was submitted in the emergency response plan section. Using this link to the template submit an complete emergency response plan. http://www.sbcfire.org/Portals/58/Documents/Hazardous_Materials/Emergency-Response-Plan.pdf?ver=2017-05-23-142346-253 CORRECTIVE ACTION: Submit a complete emergency response plan in CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	08-28-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS ENFORCEMENT PROJECT - ENTER VIOLATION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,

ECO CLEANERS (Continued) **S104768027**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-11-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ACTIVITY TIME INCLUDES POST INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-11-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ACTIVITY TIME INCLUDES POST INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-01-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-01-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION-ECO CLEANERS
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-01-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION-ECO CLEANERS
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-01-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 133000
Site Name: Eco Cleaners

ECO CLEANERS (Continued) **S104768027**

Site Address: 4200 CHINO HILLS PKY STE 168
Site City: CHINO HILLS
Site Zip: 91709
Enf Action Date: 04-01-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 133000
Site Name: Eco Cleaners
Site Address: 4200 CHINO HILLS PKY STE 168
Site City: CHINO HILLS
Site Zip: 91709
Enf Action Date: 04-01-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: Parent Corporation
Entity Name: Eco Cleaners
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 4200 CHINO HILLS PKY, STE 168
Affiliation City: CHINO HILLS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91709
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: CHANG PARK
Entity Title: Not reported
Affiliation Address: 4200 CHINO HILLS PKWY, STE 168
Affiliation City: CHINO HILLS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91709
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: Sun Park

ECO CLEANERS (Continued) **S104768027**

Entity Title:	Not reported
Affiliation Address:	4200 CHINO HILLS PKWY, STE 168
Affiliation City:	CHINO HILLS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91709
Affiliation Phone:	(909) 393-0899,
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,
Affiliation Type Desc:	Operator
Entity Name:	CHANG PARK
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(949) 400-5400,

C32 **MARKETPLACE CLEANERS** **RCRA-SQG** **1000596983**
WSW **4200 CHINO HILLS PKWY 168** **FINDS** **CAD983609769**
1/8-1/4 **CHINO, CA 91708** **ECHO**
0.152 mi. **DRYCLEANERS**
802 ft. **Site 20 of 32 in cluster C**

Relative: **Higher**
Actual: **647 ft.**

RCRA Listings:

Date Form Received by Agency:	19911024
Handler Name:	Marketplace Cleaners
Handler Address:	4200 Chino Hills Pkwy 168
Handler City,State,Zip:	CHINO, CA 91708
EPA ID:	CAD983609769
Contact Name:	HO CHUL OH
Contact Address:	4200 CHINO HILLS PKWY 168
Contact City,State,Zip:	CHINO, CA 91709
Contact Telephone:	714-393-0899
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Other
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	4200 CHINO HILLS PKWY 168

MARKETPLACE CLEANERS (Continued) **1000596983**

Mailing City,State,Zip:	CHINO, CA 91708
Owner Name:	Ho Chul Oh
Owner Type:	Private
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: HO CHUL OH	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4200 CHINO HILLS PKWY 168
Owner/Operator City,State,Zip:	CHINO, CA 91709
Owner/Operator Telephone:	714-393-0899
Owner/Operator Telephone Ext:	Not reported

MARKETPLACE CLEANERS (Continued) **1000596983**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19911024
Handler Name: MARKETPLACE CLEANERS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110006482555

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The California Environmental Protection Agency (CalEPA) has recently implemented a new data warehouse system (nSite). This data warehouse combines and merges facility and site information from five different systems managed within CalEPA. The five systems are: California Environmental Reporting System (CERS),EnviroStor, GeoTracker, California Integrated Water Quality System (CIWQS), andToxic Release Inventory (TRI).
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.
California's Hazardous Waste Tracking System Data Mart (HWTS-DATAMART) provides information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000596983
Registry ID: 110006482555

MARKETPLACE CLEANERS (Continued) **1000596983**

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110006482555
Name: MARKETPLACE CLEANERS
Address: 4200 CHINO HILLS PKWY 168
City,State,Zip: CHINO, CA 91708

DRYCLEANERS:
Name: MARKET PLACE CLEANERS
Address: 4200 CHINO HILLS PKWY 168
City,State,Zip: CHINO, CA 917090000
EPA Id: CAD983609769
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 10/24/1991
Facility Active: No
Inactive Date: 06/30/2004
Facility Addr2: Not reported
Owner Name: OH HYUNG SOOK
Owner Address: 4200 CHINO HILLS PKWY #168
Owner Address 2: Not reported
Owner Telephone: 9093930899
Contact Name: OH HYUNG SOOK
Contact Address: 4200 CHINO HILLS PKWY #168
Contact Address 2: Not reported
Contact Telephone: 9093930899
Contact Fax: Not reported
Mailing Name: Not reported
Mailing Address 1: 4200 CHINO HILL PKWY 168
Mailing Address 2: Not reported
Mailing City: CHINO HILLS
Mailing State: CA
Mailing Zip: 917093782
Owner Fax: Not reported
Region Code: 9
Latitude: 33.982699
Longitude: -117.713553

C33 **RITE AID #5578** **SWRCY** **S108224643**
WSW **4200 CHINO HILLS PKY STE 500** **CERS HAZ WASTE** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709** **San Bern. Co. Permit**
0.152 mi. **CERS**
802 ft. **Site 21 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

SWRCY:
Name: CHINO HILLS RECYCLING
Address: 4200 CHINO HILLS PKWY
City,State,Zip: CHINO HILLS, CA 91709
Reg Id: 26166
Cert Id: RC12885
Mailing Address: 12414 Luna Pl
Mailing City: Granada Hills
Mailing State: CA
Mailing Zip Code: 91344
Website: Not reported
Email: chrinc@ymail.com
Phone Number: (888) 422-1070

RITE AID #5578 (Continued) **S108224643**

Rural: N
Operation Begin Date: 02/01/2006
Aluminium: Y
Glass: Y
Plastic: Y
Bimetal: Y
Hours of Operation: Mon - Sat 8:30 am - 5:00 pm, Closed 12:00 pm - 12:30 pm; Sun Closed
Organization ID: 19014
Organization Name: Samuel Semerjian Recycling

CERS HAZ WASTE:
Name: RITE AID #5578
Address: 4200 CHINO HILLS PKY STE 500
City,State,Zip: CHINO HILLS, CA 91709
Site ID: 148036
CERS ID: 10310857
CERS Description: Hazardous Waste Generator

San Bern. Co. Permit:
Name: RITE AID #5578
Address: 4200 CHINO HILLS PKY STE 500
City,State,Zip: CHINO HILLS, CA 91709
Region: SAN BERNARDINO
Facility ID: FA0008007
Owner: THRIFTY PAYLESS, INC
Permit Number: PT0016057
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status: INACTIVE
Expiration Date: 12/31/2024

Name: RITE AID #5578
Address: 4200 CHINO HILLS PKY STE 500
City,State,Zip: CHINO HILLS, CA 91709
Region: SAN BERNARDINO
Facility ID: FA0008007
Owner: THRIFTY PAYLESS, INC
Permit Number: PT0037090
Permit Category: RCRA LARGE QUANTITY GENERATOR MINIMAL
Facility Status: INACTIVE
Expiration Date: 12/31/2017

Name: RITE AID #5578
Address: 4200 CHINO HILLS PKY STE 500
City,State,Zip: CHINO HILLS, CA 91709
Region: SAN BERNARDINO
Facility ID: FA0008007
Owner: THRIFTY PAYLESS, INC
Permit Number: PT0030910
Permit Category: HAZMAT HANDLER GENERAL ACT.(NB)
Facility Status: INACTIVE
Expiration Date: 12/31/2014

Name: MARTIN CHIROPRACTIC
Address: 4200 CHINO HILLS PKY
City,State,Zip: CHINO HILLS, CA 91709
Region: SAN BERNARDINO

RITE AID #5578 (Continued) **S108224643**

Facility ID: FA0004598
Owner: WEST COAST CHIROPRACTIC
Permit Number: PT0007437
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 07/31/2003

Name: WINSTON TIRES
Address: 4200 CHINO HILLS PKY
City,State,Zip: CHINO HILLS, CA 91709
Region: SAN BERNARDINO
Facility ID: FA0007325
Owner: OLIVER & WINSTON INC
Permit Number: PT0006021
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 08/31/2002

Name: WINSTON TIRES
Address: 4200 CHINO HILLS PKY
City,State,Zip: CHINO HILLS, CA 91709
Region: SAN BERNARDINO
Facility ID: FA0007325
Owner: OLIVER & WINSTON INC
Permit Number: PT0006022
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 08/31/2002

CERS:
Name: RITE AID #5578
Address: 4200 CHINO HILLS PKY STE 500
City,State,Zip: CHINO HILLS, CA 91709
Site ID: 148036
CERS ID: 10310857
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-01-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-28-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION-RITE AID
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection

RITE AID #5578 (Continued) **S108224643**

Eval Date: 08-28-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION-RITE AID
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-08-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HWLQG
Eval Source: CERS,

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: Joseph A. Chest
Entity Title: Manager, EHS
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: Thrifty Payless, Inc
Entity Title: Not reported
Affiliation Address: P.O. Box 3165
Affiliation City: Harrisburg
Affiliation State: PA
Affiliation Country: United States
Affiliation Zip: 17105
Affiliation Phone: (717) 761-2633,

Affiliation Type Desc: Property Owner
Entity Name: WRI/Chino Hills, LLC
Entity Title: Not reported
Affiliation Address: P.O. Box 924133
Affiliation City: Houston
Affiliation State: TX
Affiliation Country: United States
Affiliation Zip: 77292
Affiliation Phone: (713) 866-6000,

Affiliation Type Desc: Document Preparer
Entity Name: Jordan Anderson
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

RITE AID #5578 (Continued) **S108224643**

Affiliation Type Desc:	Operator
Entity Name:	Rite Aid #5578
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 393-5710,

Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,

Affiliation Type Desc:	Environmental Contact
Entity Name:	Joseph A. Chest
Entity Title:	Not reported
Affiliation Address:	P.O. Box 3165
Affiliation City:	Harrisburg
Affiliation State:	PA
Affiliation Country:	Not reported
Affiliation Zip:	17105
Affiliation Phone:	,

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	P.O. Box 3165, Attn: EHS
Affiliation City:	Harrisburg
Affiliation State:	PA
Affiliation Country:	Not reported
Affiliation Zip:	17105
Affiliation Phone:	,

Affiliation Type Desc:	Parent Corporation
Entity Name:	RITE AID CORPORATION
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

C34 **JUST TIRES #4841** **CERS HAZ WASTE** **S109849242**
WSW **4200 CHINO HILLS PKY STE 280** **San Bern. Co. Permit** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709** **CERS**
0.152 mi.
802 ft. **Site 22 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

CERS HAZ WASTE:
Name: JUST TIRES #4841
Address: 4200 CHINO HILLS PKY STE 280
City,State,Zip: CHINO HILLS, CA 91709
Site ID: 126940
CERS ID: 10053271
CERS Description: Hazardous Waste Generator

San Bern. Co. Permit:
Name: JUST TIRES #4841
Address: 4200 CHINO HILLS PKY STE 280
City,State,Zip: CHINO HILLS, CA 91709
Region: SAN BERNARDINO
Facility ID: FA0011658
Owner: GOODYEAR TIRE & RUBBER CO
Permit Number: PT0020184
Permit Category: LARGE QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 11/30/2024

Name: JUST TIRES #4841
Address: 4200 CHINO HILLS PKY STE 280
City,State,Zip: CHINO HILLS, CA 91709
Region: SAN BERNARDINO
Facility ID: FA0011658
Owner: GOODYEAR TIRE & RUBBER CO
Permit Number: PT0020185
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 11/30/2024

CERS:
Name: JUST TIRES #4841
Address: 4200 CHINO HILLS PKY STE 280
City,State,Zip: CHINO HILLS, CA 91709
Site ID: 126940
CERS ID: 10053271
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 126940
Site Name: JUST TIRES #4841
Violation Date: 09-28-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 01/10/2018. The hazardous materials inventory was found to be incomplete. New oils were under reported and hazardous waste was omitted. Update the plan inventory to include the following items: aerosol waste, brake fluid waste, waste coolant and waste absorbent. Update the quantity of new oil to reflect the

JUST TIRES #4841 (Continued) **S109849242**

440 gallon of oil found in drums and the 250 gallon tank. Also update the used oil filters to reflect the two 55 gallon drums observed today. These are repeat violations from the 2014 inspection report. Administrative penalties may be applied if this violation is not corrected within 30 days.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 126940
Site Name: JUST TIRES #4841
Violation Date: 03-18-2014
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description: Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 01/10/2018.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 126940
Site Name: JUST TIRES #4841
Violation Date: 09-30-2020
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 10/22/2020. OBSERVATION: Drums of aerosols, brake fluid and waste absorbent were observed missing accumulation start dates on the hazardous waste labels. CORRECTIVE ACTION: Submit a signed certificate of compliance to indicate that all hazardous waste labels have been properly labeled.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 126940
Site Name: JUST TIRES #4841
Violation Date: 03-18-2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 04/25/2014. Failure to retain Hazardous Waste Manifests for at least 3 years (CCR 66262.40(a))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 126940
Site Name: JUST TIRES #4841
Violation Date: 03-18-2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67,

JUST TIRES #4841 (Continued) **S109849242**

	Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 04/25/2014. Failure to keep hazardous waste containers closed when not in active use (CCR 66265.173(a))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	126940
Site Name:	JUST TIRES #4841
Violation Date:	09-28-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 02/27/2018. Failure to retain Hazardous Waste Manifests for at least 3 years (CCR 66262.40(a)) Waste disposal documents were not available for review. Submit a copy of the last waste manifest.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	126940
Site Name:	JUST TIRES #4841
Violation Date:	10-25-2023
Citation:	22 CCR 15 66265.174 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.174
Violation Description:	Failure to inspect weekly, areas where hazardous waste containers are stored or transferred. The owner or operator shall look for leaking containers and for deterioration of containers and the containment system caused by corrosion or other factors.
Violation Notes:	Returned to compliance on 11/02/2023. OBSERVATION: A weekly inspection of the hazardous waste drums has not been conducted. CORRECTIVE ACTION: Submit a weekly inspection log demonstrating that the hazardous waste storage area is being inspected.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	126940
Site Name:	JUST TIRES #4841
Violation Date:	03-18-2014
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 04/25/2014. Failure to operate and maintain facility to prevent a fire, spill or release (CCR 66265.31)
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	126940
Site Name:	JUST TIRES #4841
Violation Date:	03-18-2014
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple

JUST TIRES #4841 (Continued) **S109849242**

Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 04/25/2014. Failure to manage hazardous waste lawfully (CHSC 25154)
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	126940
Site Name:	JUST TIRES #4841
Violation Date:	09-30-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/14/2020. OBSERVATION: The hazardous materials inventory was found to be incomplete. Waste coolant was observed that was not listed on the plan inventory. The maximum daily quantity for the coolant and oil filters also needs to be updated. Two drums of oil filters were listed and three were observed. New coolant was listed at 55 gallons and 110 gallons were observed. CORRECTIVE ACTION: Submit an accurate and complete hazardous materials inventory via CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	126940
Site Name:	JUST TIRES #4841
Violation Date:	10-25-2023
Citation:	22 CCR 15 66265.195(c) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.195(c)
Violation Description:	Failure to conduct and document inspections of hazardous waste tank systems each operating day and retain records of those inspections at the facility.
Violation Notes:	Returned to compliance on 11/02/2023. OBSERVATION: Daily inspections of the waste oil tank system has not not been documented. Template was provided. CORRECTIVE ACTION: Conduct daily tank inspections on the waste oil tank and submit one week of daily tank inspections with a signed certificate of compliance.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	126940
Site Name:	JUST TIRES #4841
Violation Date:	03-18-2014
Citation:	22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130
Violation Description:	Failure to properly handle, manage, label, and recycle used oil and fuel filters.
Violation Notes:	Returned to compliance on 04/25/2014.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	126940

JUST TIRES #4841 (Continued) **S109849242**

Site Name: JUST TIRES #4841
Violation Date: 09-30-2020
Citation: 40 CFR 1 265.174 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.174
Violation Description: Failure to inspect hazardous waste storage areas at least weekly and look for leaking and deteriorating containers.
Violation Notes: Returned to compliance on 10/22/2020. OBSERVATION: It was found that a weekly hazardous waste area inspection is not being conducted. The hazardous waste drums must be inspected weekly to determine compliance with hazardous waste laws and regulations. This can be worked into the daily Tank inspection log. A weekly hazardous waste inspection template was also provided. CORRECTIVE ACTION: Submit a signed certificate of compliance to indicate a hazardous waste storage area inspected is being conducted weekly.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 126940
Site Name: JUST TIRES #4841
Violation Date: 09-28-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 02/27/2018. Hazardous waste accumulation time exceeded (CCR 66262.34(a)) The drum of aerosol waste was found with an accumulation start date of 1/29/2016. Remove this waste and provide proof of proper disposal.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-18-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: JUST TIRES INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-18-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: jUST TIRES INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-28-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department

JUST TIRES #4841 (Continued) **S109849242**

Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-28-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-30-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-30-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-25-2023
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-25-2023
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 126940
Site Name: JUST TIRES #4841
Site Address: 4200 CHINO HILLS PKY STE 280
Site City: CHINO HILLS
Site Zip: 91709
Enf Action Date: 03-18-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection

JUST TIRES #4841 (Continued) **S109849242**

Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 126940
Site Name: JUST TIRES #4841
Site Address: 4200 CHINO HILLS PKY STE 280
Site City: CHINO HILLS
Site Zip: 91709
Enf Action Date: 03-18-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Chris Wiley
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: JUST TIRES #4841
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 393-0054,

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 4200 CHINO HILLS PKY, STE 280
Affiliation City: CHINO HILLS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91709

JUST TIRES #4841 (Continued) **S109849242**

Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	The Goodyear Tire and Rubber Company
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Matt Kelly
Entity Title:	EHS Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	GOODYEAR TIRE & RUBBER CO
Entity Title:	Not reported
Affiliation Address:	200 Innovation Way
Affiliation City:	AKRON
Affiliation State:	OH
Affiliation Country:	United States
Affiliation Zip:	44316
Affiliation Phone:	(330) 796-7202,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Matt Kelly
Entity Title:	Not reported
Affiliation Address:	200 Innovation Way, Dept 704
Affiliation City:	Akron
Affiliation State:	OH
Affiliation Country:	Not reported
Affiliation Zip:	44316
Affiliation Phone:	,

C35 **FOTOTECH** **San Bern. Co. Permit** **S104766336**
WSW **4200 CHINO HILLS PKY STE 375** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 23 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

San Bern. Co. Permit:

Name:	FOTOTECH
Address:	4200 CHINO HILLS PKY STE 375
City,State,Zip:	CHINO HILLS, CA 91709
Region:	SAN BERNARDINO
Facility ID:	FA0003320
Owner:	MOSTAFA, MUHAMMAD
Permit Number:	PT0006017
Permit Category:	SPECIAL GENERATOR

FOTOTECH (Continued) **S104766336**

Facility Status: INACTIVE
Expiration Date: 08/31/2007

C36 **DOLLAR TREE #03134** **San Bern. Co. Permit** **S117896855**
WSW **4200 CHINO HILLS PKY STE 760** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 24 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

San Bern. Co. Permit:
Name: DOLLAR TREE #03134
Address: 4200 CHINO HILLS PKY STE 760
City,State,Zip: CHINO HILLS, CA 91709
Region: SAN BERNARDINO
Facility ID: FA0015897
Owner: DOLLAR TREE STORES, INC.
Permit Number: PT0037740
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 05/31/2024

Name: DOLLAR TREE #03134
Address: 4200 CHINO HILLS PKY STE 760
City,State,Zip: CHINO HILLS, CA 91709
Region: SAN BERNARDINO
Facility ID: FA0015897
Owner: DOLLAR TREE STORES, INC.
Permit Number: PT0034627
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status: ACTIVE
Expiration Date: 05/31/2024

C37 **ECO CLEANERS** **DRYCLEANERS** **S121696634**
WSW **4200 CHINO HILLS PKY #168** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 25 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

DRYCLEAN SOUTH COAST:
Name: ECO CLEANERS
Address: 4200 CHINO HILLS PKY #168
City,State,Zip: CHINO HILLS, CA 91709
Facility ID: 173494
Application Number: 546965
Permit Number: G26311
Status: Sold
Representative Name: CHONG LEE
Representative Telephone: 909 9933777
Permit Status: INACTIVE
BCAT Number: 000233
BCAT Description: DRY CLEANING EQUIP PETROLEUM SOLVENT
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 434.08999634
UTM North: 3760.2700195
Application Date: 01/30/2013

ECO CLEANERS (Continued) **S121696634**

PO Issue Date: 08/14/2013
NAICS Code: 812320
SIC Code: 7216

C38 **DOLLAR TREE #03134** **CERS HAZ WASTE** **S118234333**
WSW **4200 CHINO HILLS PKWY STE 760** **HWTS** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709** **HAZNET**
0.152 mi. **CERS**
802 ft. **Site 26 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

CERS HAZ WASTE:
Name: DOLLAR TREE #03134
Address: 4200 CHINO HILLS PKWY STE 760
City,State,Zip: CHINO HILLS, CA 91709
Site ID: 25840
CERS ID: 10467667
CERS Description: Hazardous Waste Generator

HWTS:
Name: DOLLAR TREE #03134
Address: 4200 CHINO HILLS PKWY STE 760
Address 2: Not reported
City,State,Zip: CHINO HILLS, CA 91709
EPA ID: CAL000390986
Inactive Date: Not reported
Create Date: 11/06/2013
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 500 VOLVO PKWY
Mailing Address 2: Not reported
Mailing City,State,Zip: CHESAPEAKE, VA 233201604
Owner Name: DOLLAR TREE STORES, INC.
Owner Address: 500 VOLVO PKWY
Owner Address 2: Not reported
Owner City,State,Zip: CHESAPEAKE, VA 233201604
Owner Phone: Not reported
Owner Fax: Not reported
Contact Name: JESSICA DUBUQUE
Contact Address: 500 VOLVO PKWY
Contact Address 2: Not reported
City,State,Zip: CHESAPEAKE, VA 233201604
Contact Phone: Not reported
Contact Fax: Not reported
Facility Status: Active
Facility Type: PERMANENT
Category: STATE
Latitude: 33.982821
Longitude: -117.7130295

NAICS:
EPA ID: CAL000390986
Create Date: 2013-11-06 13:13:24.610
NAICS Code: 45299
NAICS Description: All Other General Merchandise Stores
Issued EPA ID Date: 2013-11-06 13:13:24.61000
Inactive Date: Not reported
Facility Name: DOLLAR TREE #03134
Facility Address: 4200 CHINO HILLS PKWY STE 760

DOLLAR TREE #03134 (Continued) **S118234333**

Facility Address 2:	Not reported
Facility City:	CHINO HILLS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	917093776

HAZNET:

Name:	DOLLAR TREE #03134
Address:	4200 CHINO HILLS PKWY STE 760
Address 2:	Not reported
City,State,Zip:	CHINO HILLS, CA 917093776
Contact:	JESSICA DUBUQUE
Telephone:	7573215458
Mailing Name:	Not reported
Mailing Address:	500 VOLVO PKWY
Year:	2021
Gepaid:	CAL000390986
TSD EPA ID:	CAD008364432
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.1495
Year:	2021
Gepaid:	CAL000390986
TSD EPA ID:	CAD008364432
CA Waste Code:	122 - Alkaline solution without metals pH >= 12.5
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.084
Year:	2021
Gepaid:	CAL000390986
TSD EPA ID:	CAD008364432
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.016
Year:	2020
Gepaid:	CAL000390986
TSD EPA ID:	AZR000515924
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.077
Year:	2020
Gepaid:	CAL000390986
TSD EPA ID:	CAD008364432
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.095

DOLLAR TREE #03134 (Continued) **S118234333**

Year: 2020
Gepaid: CAL000390986
TSD EPA ID: CAD008364432
CA Waste Code: 122 - Alkaline solution without metals pH >= 12.5
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.058

Year: 2020
Gepaid: CAL000390986
TSD EPA ID: CAD008364432
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0215

Year: 2019
Gepaid: CAL000390986
TSD EPA ID: NVD980895338
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.00300

Year: 2019
Gepaid: CAL000390986
TSD EPA ID: CAD008364432
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.00050

Year: 2019
Gepaid: CAL000390986
TSD EPA ID: NVD980895338
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.00100

Click this hyperlink while viewing on your computer to access
27 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2021
Gen EPA ID: CAL000390986

Shipment Date: 6/3/2020
Creation Date: 7/6/2020
Receipt Date: 6/12/2020
Manifest ID: 014388358FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: CAR000175422
Trans 2 Name: WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID: AZR000515924

DOLLAR TREE #03134 (Continued) **S118234333**

Trans Name:	YUMA YES WASTE TRANSFER FACILITY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0265
Waste Quantity:	53
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	6/3/2020
Creation Date:	6/18/2020
Receipt Date:	6/15/2020
Manifest ID:	014388357FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	MNS000110924
Trans 2 Name:	Stericycle Specialty Waste Solutions Inc
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001,D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0065
Waste Quantity:	13
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	6/3/2020
Creation Date:	6/18/2020
Receipt Date:	6/15/2020
Manifest ID:	014388357FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	MNS000110924
Trans 2 Name:	Stericycle Specialty Waste Solutions Inc
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

DOLLAR TREE #03134 (Continued) **S118234333**

Quantity Tons:	0.0225
Waste Quantity:	45
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	6/3/2020
Creation Date:	6/18/2020
Receipt Date:	6/15/2020
Manifest ID:	014388357FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	MNS000110924
Trans 2 Name:	Stericycle Specialty Waste Solutions Inc
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.004
Waste Quantity:	8
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	6/3/2020
Creation Date:	7/6/2020
Receipt Date:	6/12/2020
Manifest ID:	014388358FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA YES WASTE TRANSFER FACILITY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0135
Waste Quantity:	27
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

DOLLAR TREE #03134 (Continued) **S118234333**

Additional Code 5:	Not reported
Shipment Date:	10/1/2020
Creation Date:	10/8/2020
Receipt Date:	10/8/2020
Manifest ID:	014930795FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.049
Waste Quantity:	98
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	10/1/2020
Creation Date:	10/8/2020
Receipt Date:	10/8/2020
Manifest ID:	014930795FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0355
Waste Quantity:	71
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	10/1/2020
Creation Date:	10/8/2020
Receipt Date:	10/8/2020
Manifest ID:	014930795FLE
Trans EPA ID:	MNS000110924

DOLLAR TREE #03134 (Continued) **S118234333**

Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.003
Waste Quantity:	6
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	10/1/2020
Creation Date:	10/8/2020
Receipt Date:	10/8/2020
Manifest ID:	014930795FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D016
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	10/1/2020
Creation Date:	10/8/2020
Receipt Date:	10/8/2020
Manifest ID:	014930795FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

DOLLAR TREE #03134 (Continued) **S118234333**

Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001,D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.015
Waste Quantity:	30
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2020
Gen EPA ID:	CAL000390986
Shipment Date:	6/3/2020
Creation Date:	7/6/2020
Receipt Date:	6/12/2020
Manifest ID:	014388358FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA YES WASTE TRANSFER FACILITY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0265
Waste Quantity:	53
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	6/3/2020
Creation Date:	6/18/2020
Receipt Date:	6/15/2020
Manifest ID:	014388357FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	MNS000110924
Trans 2 Name:	Stericycle Specialty Waste Solutions Inc
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001,D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

DOLLAR TREE #03134 (Continued) **S118234333**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0065
Waste Quantity:	13
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	6/3/2020
Creation Date:	6/18/2020
Receipt Date:	6/15/2020
Manifest ID:	014388357FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	MNS000110924
Trans 2 Name:	Stericycle Specialty Waste Solutions Inc
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0225
Waste Quantity:	45
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	6/3/2020
Creation Date:	6/18/2020
Receipt Date:	6/15/2020
Manifest ID:	014388357FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	MNS000110924
Trans 2 Name:	Stericycle Specialty Waste Solutions Inc
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.004
Waste Quantity:	8
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

DOLLAR TREE #03134 (Continued) **S118234333**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	6/3/2020
Creation Date:	7/6/2020
Receipt Date:	6/12/2020
Manifest ID:	014388358FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA YES WASTE TRANSFER FACILITY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0135
Waste Quantity:	27
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	10/1/2020
Creation Date:	10/8/2020
Receipt Date:	10/8/2020
Manifest ID:	014930795FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.049
Waste Quantity:	98
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	10/1/2020
Creation Date:	10/8/2020
Receipt Date:	10/8/2020
Manifest ID:	014930795FLE

DOLLAR TREE #03134 (Continued) **S118234333**

Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0355
Waste Quantity:	71
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	10/1/2020
Creation Date:	10/8/2020
Receipt Date:	10/8/2020
Manifest ID:	014930795FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.003
Waste Quantity:	6
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	10/1/2020
Creation Date:	10/8/2020
Receipt Date:	10/8/2020
Manifest ID:	014930795FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported

DOLLAR TREE #03134 (Continued) **S118234333**

TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D016
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	10/1/2020
Creation Date:	10/8/2020
Receipt Date:	10/8/2020
Manifest ID:	014930795FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001,D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.015
Waste Quantity:	30
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Detail Two:

Year:	2020
EM Manifest ID:	4d38da12-21ac-421a-afbe-9bd37ab77b48
Shipment Date:	6/3/2020
Receipt Date:	6/15/2020
Manifest Number:	014388357FLE
Generator EPA ID:	CAL000390986
Name:	DOLLAR TREE
Address:	4200 CHINO HILLS PKWY
Address 2:	Not reported
City:	CHINO HILLS
Zip:	91709-3776
Telephone:	877-577-2669
Contact:	Not reported
Contact Telephone:	323-776-6233
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MNS000110924

DOLLAR TREE #03134 (Continued) **S118234333**

Transporter 2 Emergency Number: Not reported
TSDF EPA ID: CAD008364432
TSDF Name: Rho Chem LLC
TSDF Address 1: 425 Isis Ave.
TSDF Address 2: Not reported
TSDF City: Inglewood
TSDF Zip: 90301
TSDF Telephone: Not reported

Federal:
Year: 2020
EM Manifest ID: 4d38da12-21ac-421a-afbe-9bd37ab77b48
Generator EPA ID: CAL000390986
Shipment Date: 2020-06-03
Manifest Number: 014388357FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00400
Quantity Waste: 8.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Burlap, cloth, paper, or plastic bags
Quantity Type: Pounds
Federal Code: D001

Year: 2020
EM Manifest ID: 4d38da12-21ac-421a-afbe-9bd37ab77b48
Generator EPA ID: CAL000390986
Shipment Date: 2020-06-03
Manifest Number: 014388357FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00650
Quantity Waste: 13.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Burlap, cloth, paper, or plastic bags
Quantity Type: Pounds
Federal Code: D001

Year: 2020
EM Manifest ID: 4d38da12-21ac-421a-afbe-9bd37ab77b48
Generator EPA ID: CAL000390986
Shipment Date: 2020-06-03
Manifest Number: 014388357FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00650
Quantity Waste: 13.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Burlap, cloth, paper, or plastic bags
Quantity Type: Pounds
Federal Code: D035

State:
Year: 2020

DOLLAR TREE #03134 (Continued) **S118234333**

EM Manifest ID:	4d38da12-21ac-421a-afbe-9bd37ab77b48
Generator EPA ID:	CAL000390986
Shipment Date:	2020-06-03
Manifest Number:	014388357FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00400
Quantity Waste:	8.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Burlap, cloth, paper, or plastic bags
Quantity Type:	Pounds
State Code:	331

Year:	2020
EM Manifest ID:	4d38da12-21ac-421a-afbe-9bd37ab77b48
Generator EPA ID:	CAL000390986
Shipment Date:	2020-06-03
Manifest Number:	014388357FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00650
Quantity Waste:	13.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Burlap, cloth, paper, or plastic bags
Quantity Type:	Pounds
State Code:	214

Year:	2020
EM Manifest ID:	4d38da12-21ac-421a-afbe-9bd37ab77b48
Generator EPA ID:	CAL000390986
Shipment Date:	2020-06-03
Manifest Number:	014388357FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.02250
Quantity Waste:	45.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	122

Year:	2020
EM Manifest ID:	d66d5999-58ff-4a75-a355-7e3675000518
Shipment Date:	6/3/2020
Receipt Date:	6/12/2020
Manifest Number:	014388358FLE
Generator EPA ID:	CAL000390986
Name:	DOLLAR TREE #03134
Address:	4200 CHINO HILLS PKWY STE 760
Address 2:	Not reported
City:	CHINO HILLS
Zip:	91709-3776
Telephone:	877-577-2669

DOLLAR TREE #03134 (Continued) **S118234333**

Contact:	Not reported
Contact Telephone:	909-597-4830
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000515924
TSDF Name:	YUMA YES WASTE TRANSFER FACILITY
TSDF Address 1:	2730 E 13TH ST
TSDF Address 2:	Not reported
TSDF City:	YUMA
TSDF Zip:	85365-1901
TSDF Telephone:	Not reported

State:

Year:	2020
EM Manifest ID:	d66d5999-58ff-4a75-a355-7e3675000518
Generator EPA ID:	CAL000390986
Shipment Date:	2020-06-03
Manifest Number:	014388358FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.02650
Quantity Waste:	53.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	331

Year:	2020
EM Manifest ID:	d66d5999-58ff-4a75-a355-7e3675000518
Generator EPA ID:	CAL000390986
Shipment Date:	2020-06-03
Manifest Number:	014388358FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.01350
Quantity Waste:	27.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	331

Year:	2020
EM Manifest ID:	1023279
Shipment Date:	1/16/2020
Receipt Date:	1/24/2020
Manifest Number:	014047562FLE
Generator EPA ID:	CAL000390986
Name:	DOLLAR TREE #3134
Address:	4200 CHINO HILLS PKWY
Address 2:	Not reported
City:	CHINO HILLS
Zip:	91709-3776
Telephone:	877-577-2669

DOLLAR TREE #03134 (Continued) **S118234333**

Contact:	Not reported
Contact Telephone:	757-321-5761
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000515924
TSDF Name:	YUMA YES WASTE TRANSFER FACILITY
TSDF Address 1:	2730 E 13TH ST
TSDF Address 2:	Not reported
TSDF City:	YUMA
TSDF Zip:	85365-1901
TSDF Telephone:	Not reported

State:

Year:	2020
EM Manifest ID:	1023279
Generator EPA ID:	CAL000390986
Shipment Date:	2020-01-16
Manifest Number:	014047562FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.03700
Quantity Waste:	74.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
State Code:	331

Detail Two:

Year:	2019
EM Manifest ID:	3bcd9cca-ef0e-4e59-b05e-daff59f0961b
Shipment Date:	9/16/2019
Receipt Date:	9/23/2019
Manifest Number:	013991310FLE
Generator EPA ID:	CAL000390986
Name:	DOLLAR TREE #03134
Address:	4200 CHINO HILLS PKWY STE 760
Address 2:	Not reported
City:	CHINO HILLS
Zip:	91709-3776
Telephone:	877-577-2669
Contact:	Not reported
Contact Telephone:	909-597-4830
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000515924
TSDF Name:	YUMA YES WASTE TRANSFER FACILITY
TSDF Address 1:	2730 E 13TH ST
TSDF Address 2:	Not reported
TSDF City:	YUMA
TSDF Zip:	85365-1901
TSDF Telephone:	Not reported

DOLLAR TREE #03134 (Continued) **S118234333**

State:

Year:	2019
EM Manifest ID:	3bcd9cca-ef0e-4e59-b05e-daff59f0961b
Generator EPA ID:	CAL000390986
Shipment Date:	2019-09-16
Manifest Number:	013991310FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00750
Quantity Waste:	15.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	331

Year:	2019
EM Manifest ID:	3bcd9cca-ef0e-4e59-b05e-daff59f0961b
Generator EPA ID:	CAL000390986
Shipment Date:	2019-09-16
Manifest Number:	013991310FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	331

Year:	2019
EM Manifest ID:	632750
Shipment Date:	9/16/2019
Receipt Date:	9/23/2019
Manifest Number:	013991309FLE
Generator EPA ID:	CAL000390986
Name:	DOLLAR TREE
Address:	4200 CHINO HILLS PKWY
Address 2:	Not reported
City:	CHINO HILLS
Zip:	91709-3776
Telephone:	877-577-2669
Contact:	Not reported
Contact Telephone:	323-776-6233
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MNS000110924
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City:	Inglewood
TSDF Zip:	90301
TSDF Telephone:	Not reported

DOLLAR TREE #03134 (Continued) **S118234333**

Federal:

Year:	2019
EM Manifest ID:	632750
Generator EPA ID:	CAL000390986
Shipment Date:	2019-09-16
Manifest Number:	013991309FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D001

Year:	2019
EM Manifest ID:	632750
Generator EPA ID:	CAL000390986
Shipment Date:	2019-09-16
Manifest Number:	013991309FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D035

State:

Year:	2019
EM Manifest ID:	632750
Generator EPA ID:	CAL000390986
Shipment Date:	2019-09-16
Manifest Number:	013991309FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	214

Year:	2019
EM Manifest ID:	354467
Shipment Date:	4/8/2019
Receipt Date:	4/12/2019
Manifest Number:	013036735FLE
Generator EPA ID:	CAL000390986
Name:	DOLLAR TREE #03134
Address:	4200 CHINO HILLS PKWY STE 760

DOLLAR TREE #03134 (Continued) **S118234333**

Address 2:	Not reported
City:	CHINO HILLS
Zip:	91709-3776
Telephone:	877-577-2669
Contact:	Not reported
Contact Telephone:	909-597-4830
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000515924
TSDF Name:	YUMA YES WASTE TRANSFER FACILITY
TSDF Address 1:	2730 E 13TH ST
TSDF Address 2:	Not reported
TSDF City:	YUMA
TSDF Zip:	85365-1901
TSDF Telephone:	Not reported

State:

Year:	2019
EM Manifest ID:	354467
Generator EPA ID:	CAL000390986
Shipment Date:	2019-04-08
Manifest Number:	013036735FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.05200
Quantity Waste:	104.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
State Code:	331

Year:	2019
EM Manifest ID:	354467
Generator EPA ID:	CAL000390986
Shipment Date:	2019-04-08
Manifest Number:	013036735FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.01300
Quantity Waste:	26.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	331

Year:	2019
EM Manifest ID:	360676
Shipment Date:	4/8/2019
Receipt Date:	4/25/2019
Manifest Number:	013036733FLE
Generator EPA ID:	CAL000390986
Name:	DOLLAR TREE
Address:	4200 CHINO HILLS PKWY

DOLLAR TREE #03134 (Continued) **S118234333**

Address 2:	Not reported
City:	CHINO HILLS
Zip:	91709-3776
Telephone:	877-577-2669
Contact:	Not reported
Contact Telephone:	323-776-6233
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MNS000110924
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City:	Inglewood
TSDF Zip:	90301
TSDF Telephone:	Not reported

State:

Year:	2019
EM Manifest ID:	360676
Generator EPA ID:	CAL000390986
Shipment Date:	2019-04-08
Manifest Number:	013036733FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.02000
Quantity Waste:	40.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	122

Year:	2019
EM Manifest ID:	226403
Shipment Date:	12/6/2018
Receipt Date:	1/4/2019
Manifest Number:	012465113FLE
Generator EPA ID:	CAL000390986
Name:	DOLLAR TREE
Address:	4200 CHINO HILLS PKWY
Address 2:	Not reported
City:	CHINO HILLS
Zip:	91709-3776
Telephone:	877-577-2669
Contact:	Not reported
Contact Telephone:	775-575-2760
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MNS000110924
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	NVD980895338
TSDF Name:	21st Century Environmental Management of Nevada, LLC
TSDF Address 1:	2095 Newlands Drive East
TSDF Address 2:	Not reported
TSDF City:	Fernley

DOLLAR TREE #03134 (Continued) **S118234333**

TSDF Zip: 89408
TSDF Telephone: Not reported

Federal:
Year: 2019
EM Manifest ID: 226403
Generator EPA ID: CAL000390986
Shipment Date: 2018-12-06
Manifest Number: 012465113FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00150
Quantity Waste: 3.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D001

Year: 2019
EM Manifest ID: 226403
Generator EPA ID: CAL000390986
Shipment Date: 2018-12-06
Manifest Number: 012465113FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00300
Quantity Waste: 6.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D001

Year: 2019
EM Manifest ID: 226403
Generator EPA ID: CAL000390986
Shipment Date: 2018-12-06
Manifest Number: 012465113FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00300
Quantity Waste: 6.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D035

State:
Year: 2019
EM Manifest ID: 226403
Generator EPA ID: CAL000390986
Shipment Date: 2018-12-06
Manifest Number: 012465113FLE
Line Number: 1
Method Code: H141

DOLLAR TREE #03134 (Continued) **S118234333**

Quantity Tons:	0.00150
Quantity Waste:	3.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	331
Year:	2019
EM Manifest ID:	226403
Generator EPA ID:	CAL000390986
Shipment Date:	2018-12-06
Manifest Number:	012465113FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00300
Quantity Waste:	6.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	214

Detail Two:

Year:	2018
EM Manifest ID:	010202888FLE20170926_D_1
Shipment Date:	9/26/2017
Receipt Date:	10/4/2017
Manifest Number:	010202888FLE
Generator EPA ID:	CAL000390986
Name:	DOLLAR TREE #3134
Address:	Not reported
Address 2:	Not reported
City:	Not reported
Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000217554
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	RHO CHEM LLC
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City:	Not reported
TSDF Zip:	Not reported
TSDF Telephone:	Not reported

Federal:

Year:	2018
EM Manifest ID:	010202888FLE20170926_D_1
Generator EPA ID:	CAL000390986
Shipment Date:	2017-09-26
Manifest Number:	010202888FLE

DOLLAR TREE #03134 (Continued) **S118234333**

Line Number:	1
Method Code:	H141
Quantity Tons:	0.00400
Quantity Waste:	8.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001
Year:	2018
EM Manifest ID:	010202888FLE20170926_D_1
Generator EPA ID:	CAL000390986
Shipment Date:	2017-09-26
Manifest Number:	010202888FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001
Year:	2018
EM Manifest ID:	010202888FLE20170926_D_1
Generator EPA ID:	CAL000390986
Shipment Date:	2017-09-26
Manifest Number:	010202888FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00150
Quantity Waste:	3.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001
Year:	2018
EM Manifest ID:	010202888FLE20170926_D_1
Generator EPA ID:	CAL000390986
Shipment Date:	2017-09-26
Manifest Number:	010202888FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00150
Quantity Waste:	3.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D035
Year:	2018
EM Manifest ID:	010202888FLE20170926_D_1

DOLLAR TREE #03134 (Continued) **S118234333**

Generator EPA ID: CAL000390986
Shipment Date: 2017-09-26
Manifest Number: 010202888FLE
Line Number: 4
Method Code: H141
Quantity Tons: 0.00400
Quantity Waste: 8.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D002

State:
Year: 2018
EM Manifest ID: 010202888FLE20170926_D_1
Generator EPA ID: CAL000390986
Shipment Date: 2017-09-26
Manifest Number: 010202888FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00400
Quantity Waste: 8.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 331

Year: 2018
EM Manifest ID: 010202888FLE20170926_D_1
Generator EPA ID: CAL000390986
Shipment Date: 2017-09-26
Manifest Number: 010202888FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00100
Quantity Waste: 2.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 331

Year: 2018
EM Manifest ID: 010202888FLE20170926_D_1
Generator EPA ID: CAL000390986
Shipment Date: 2017-09-26
Manifest Number: 010202888FLE
Line Number: 3
Method Code: H141
Quantity Tons: 0.00150
Quantity Waste: 3.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL

DOLLAR TREE #03134 (Continued) **S118234333**

State Code: 214

Year: 2018
EM Manifest ID: 010202888FLE20170926_D_1
Generator EPA ID: CAL000390986
Shipment Date: 2017-09-26
Manifest Number: 010202888FLE
Line Number: 4
Method Code: H141
Quantity Tons: 0.00400
Quantity Waste: 8.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 122

Year: 2018
EM Manifest ID: 010202888FLE20170926_D_1
Generator EPA ID: CAL000390986
Shipment Date: 2017-09-26
Manifest Number: 010202888FLE
Line Number: 5
Method Code: H141
Quantity Tons: 0.03700
Quantity Waste: 74.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 331

Year: 2018
EM Manifest ID: 010202888FLE20170926_D_1
Generator EPA ID: CAL000390986
Shipment Date: 2017-09-26
Manifest Number: 010202888FLE
Line Number: 6
Method Code: H141
Quantity Tons: 0.05800
Quantity Waste: 116.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 331

Year: 2018
EM Manifest ID: 010835086FLE20180525_D_1
Shipment Date: 5/25/2018
Receipt Date: 7/5/2018
Manifest Number: 010835086FLE
Generator EPA ID: CAL000390986
Name: DOLLAR TREE #3134
Address: Not reported
Address 2: Not reported

DOLLAR TREE #03134 (Continued) **S118234333**

City:	Not reported
Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	NED986382133
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	NVD980895338
TSDF Name:	21ST CENTURY EMN LLC
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City:	Not reported
TSDF Zip:	Not reported
TSDF Telephone:	Not reported

Federal:

Year:	2018
EM Manifest ID:	010835086FLE20180525_D_1
Generator EPA ID:	CAL000390986
Shipment Date:	2018-05-25
Manifest Number:	010835086FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00400
Quantity Waste:	8.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001

Year:	2018
EM Manifest ID:	010835086FLE20180525_D_1
Generator EPA ID:	CAL000390986
Shipment Date:	2018-05-25
Manifest Number:	010835086FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00350
Quantity Waste:	7.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001

Year:	2018
EM Manifest ID:	010835086FLE20180525_D_1
Generator EPA ID:	CAL000390986
Shipment Date:	2018-05-25
Manifest Number:	010835086FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00350
Quantity Waste:	7.000000
Quantity Unit:	P

DOLLAR TREE #03134 (Continued) **S118234333**

Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D035

State:
Year: 2018
EM Manifest ID: 010835086FLE20180525_D_1
Generator EPA ID: CAL000390986
Shipment Date: 2018-05-25
Manifest Number: 010835086FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00400
Quantity Waste: 8.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 331

Year: 2018
EM Manifest ID: 010835086FLE20180525_D_1
Generator EPA ID: CAL000390986
Shipment Date: 2018-05-25
Manifest Number: 010835086FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00350
Quantity Waste: 7.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 214

Year: 2018
EM Manifest ID: 010835087FLE20180525_D_1
Shipment Date: 5/25/2018
Receipt Date: 6/11/2018
Manifest Number: 010835087FLE
Generator EPA ID: CAL000390986
Name: DOLLAR TREE #3134
Address: Not reported
Address 2: Not reported
City: Not reported
Zip: Not reported
Telephone: Not reported
Contact: Not reported
Contact Telephone: Not reported
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: AZR000515924
TSDF Name: YUMA YES LLC

DOLLAR TREE #03134 (Continued) **S118234333**

TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City:	Not reported
TSDF Zip:	Not reported
TSDF Telephone:	Not reported

State:

Year:	2018
EM Manifest ID:	010835087FLE20180525_D_1
Generator EPA ID:	CAL000390986
Shipment Date:	2018-05-25
Manifest Number:	010835087FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.09300
Quantity Waste:	186.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331

Year:	2018
EM Manifest ID:	010835087FLE20180525_D_1
Generator EPA ID:	CAL000390986
Shipment Date:	2018-05-25
Manifest Number:	010835087FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.03450
Quantity Waste:	69.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331

Year:	2018
EM Manifest ID:	010835085FLE20180525_D_1
Shipment Date:	5/25/2018
Receipt Date:	6/15/2018
Manifest Number:	010835085FLE
Generator EPA ID:	CAL000390986
Name:	DOLLAR TREE #3134
Address:	Not reported
Address 2:	Not reported
City:	Not reported
Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000217554
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	RHO CHEM LLC

DOLLAR TREE #03134 (Continued) **S118234333**

TSDF Address 1: Not reported
TSDF Address 2: Not reported
TSDF City: Not reported
TSDF Zip: Not reported
TSDF Telephone: Not reported

Federal:
Year: 2018
EM Manifest ID: 010835085FLE20180525_D_1
Generator EPA ID: CAL000390986
Shipment Date: 2018-05-25
Manifest Number: 010835085FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00450
Quantity Waste: 9.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D002

State:
Year: 2018
EM Manifest ID: 010835085FLE20180525_D_1
Generator EPA ID: CAL000390986
Shipment Date: 2018-05-25
Manifest Number: 010835085FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00450
Quantity Waste: 9.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 122

Year: 2018
EM Manifest ID: 008455050FLE20170517_D_1
Shipment Date: 5/17/2017
Receipt Date: 5/22/2017
Manifest Number: 008455050FLE
Generator EPA ID: CAL000390986
Name: DOLLAR TREE #3134
Address: Not reported
Address 2: Not reported
City: Not reported
Zip: Not reported
Telephone: Not reported
Contact: Not reported
Contact Telephone: Not reported
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: NED986382133
Transporter 2 Emergency Number: Not reported

DOLLAR TREE #03134 (Continued) **S118234333**

TSDF EPA ID: CAD008364432
TSDF Name: RHO CHEM LLC
TSDF Address 1: Not reported
TSDF Address 2: Not reported
TSDF City: Not reported
TSDF Zip: Not reported
TSDF Telephone: Not reported

Federal:
Year: 2018
EM Manifest ID: 008455050FLE20170517_D_1
Generator EPA ID: CAL000390986
Shipment Date: 2017-05-17
Manifest Number: 008455050FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00150
Quantity Waste: 3.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D001

Year: 2018
EM Manifest ID: 008455050FLE20170517_D_1
Generator EPA ID: CAL000390986
Shipment Date: 2017-05-17
Manifest Number: 008455050FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.01600
Quantity Waste: 32.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D001

Year: 2018
EM Manifest ID: 008455050FLE20170517_D_1
Generator EPA ID: CAL000390986
Shipment Date: 2017-05-17
Manifest Number: 008455050FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.01600
Quantity Waste: 32.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D035

Year: 2018
EM Manifest ID: 008455050FLE20170517_D_1
Generator EPA ID: CAL000390986
Shipment Date: 2017-05-17

DOLLAR TREE #03134 (Continued) **S118234333**

Manifest Number: 008455050FLE
Line Number: 3
Method Code: H141
Quantity Tons: 0.00050
Quantity Waste: 1.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D001

Year: 2018
EM Manifest ID: 008455050FLE20170517_D_1
Generator EPA ID: CAL000390986
Shipment Date: 2017-05-17
Manifest Number: 008455050FLE
Line Number: 4
Method Code: H141
Quantity Tons: 0.00450
Quantity Waste: 9.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D002

State:
Year: 2018
EM Manifest ID: 008455050FLE20170517_D_1
Generator EPA ID: CAL000390986
Shipment Date: 2017-05-17
Manifest Number: 008455050FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00150
Quantity Waste: 3.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 331

Year: 2018
EM Manifest ID: 008455050FLE20170517_D_1
Generator EPA ID: CAL000390986
Shipment Date: 2017-05-17
Manifest Number: 008455050FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.01600
Quantity Waste: 32.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 214

DOLLAR TREE #03134 (Continued) **S118234333**

Year:	2018
EM Manifest ID:	008455050FLE20170517_D_1
Generator EPA ID:	CAL000390986
Shipment Date:	2017-05-17
Manifest Number:	008455050FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	352

Year:	2018
EM Manifest ID:	008455050FLE20170517_D_1
Generator EPA ID:	CAL000390986
Shipment Date:	2017-05-17
Manifest Number:	008455050FLE
Line Number:	4
Method Code:	H141
Quantity Tons:	0.00450
Quantity Waste:	9.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	122

Year:	2018
EM Manifest ID:	008455050FLE20170517_D_1
Generator EPA ID:	CAL000390986
Shipment Date:	2017-05-17
Manifest Number:	008455050FLE
Line Number:	5
Method Code:	H141
Quantity Tons:	0.13400
Quantity Waste:	268.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331

Year:	2018
EM Manifest ID:	223671
Shipment Date:	12/6/2018
Receipt Date:	12/15/2018
Manifest Number:	012465114FLE
Generator EPA ID:	CAL000390986
Name:	DOLLAR TREE #03134
Address:	4200 CHINO HILLS PKWY STE 760
Address 2:	Not reported
City:	CHINO HILLS
Zip:	91709-3776

DOLLAR TREE #03134 (Continued) **S118234333**

Telephone:	877-577-2669
Contact:	Not reported
Contact Telephone:	757-321-5761
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000515924
TSDF Name:	YUMA YES WASTE TRANSFER FACILITY
TSDF Address 1:	2730 E 13TH ST
TSDF Address 2:	Not reported
TSDF City:	YUMA
TSDF Zip:	85365-1901
TSDF Telephone:	Not reported

State:

Year:	2018
EM Manifest ID:	223671
Generator EPA ID:	CAL000390986
Shipment Date:	2018-12-06
Manifest Number:	012465114FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00450
Quantity Waste:	9.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	331

Year:	2018
EM Manifest ID:	223671
Generator EPA ID:	CAL000390986
Shipment Date:	2018-12-06
Manifest Number:	012465114FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00350
Quantity Waste:	7.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	331

Year:	2018
EM Manifest ID:	208304
Shipment Date:	12/6/2018
Receipt Date:	12/10/2018
Manifest Number:	012465112FLE
Generator EPA ID:	CAL000390986
Name:	DOLLAR TREE
Address:	4200 CHINO HILLS PKWY
Address 2:	Not reported
City:	CHINO HILLS
Zip:	91709-3776

DOLLAR TREE #03134 (Continued) **S118234333**

Telephone:	877-577-2669
Contact:	Not reported
Contact Telephone:	323-776-6233
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MNS000110924
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City:	Inglewood
TSDF Zip:	90301
TSDF Telephone:	Not reported

State:

Year:	2018
EM Manifest ID:	208304
Generator EPA ID:	CAL000390986
Shipment Date:	2018-12-06
Manifest Number:	012465112FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	122

Year:	2018
EM Manifest ID:	010801315FLE20180112_D_1
Shipment Date:	1/12/2018
Receipt Date:	1/27/2018
Manifest Number:	010801315FLE
Generator EPA ID:	CAL000390986
Name:	DOLLAR TREE #3134
Address:	Not reported
Address 2:	Not reported
City:	Not reported
Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000515924
TSDF Name:	YUMA YES LLC
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City:	Not reported
TSDF Zip:	Not reported
TSDF Telephone:	Not reported

DOLLAR TREE #03134 (Continued) **S118234333**

State:

Year:	2018
EM Manifest ID:	010801315FLE20180112_D_1
Generator EPA ID:	CAL000390986
Shipment Date:	2018-01-12
Manifest Number:	010801315FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.01200
Quantity Waste:	24.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331

Year:	2018
EM Manifest ID:	010801315FLE20180112_D_1
Generator EPA ID:	CAL000390986
Shipment Date:	2018-01-12
Manifest Number:	010801315FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.06900
Quantity Waste:	138.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331

Year:	2018
EM Manifest ID:	010801314FLE20180112_D_1
Shipment Date:	1/12/2018
Receipt Date:	1/30/2018
Manifest Number:	010801314FLE
Generator EPA ID:	CAL000390986
Name:	DOLLAR TREE #3134
Address:	Not reported
Address 2:	Not reported
City:	Not reported
Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000217000
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	RHO CHEM LLC
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City:	Not reported
TSDF Zip:	Not reported
TSDF Telephone:	Not reported

DOLLAR TREE #03134 (Continued) **S118234333**

Federal:

Year:	2018
EM Manifest ID:	010801314FLE20180112_D_1
Generator EPA ID:	CAL000390986
Shipment Date:	2018-01-12
Manifest Number:	010801314FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001

Year:	2018
EM Manifest ID:	010801314FLE20180112_D_1
Generator EPA ID:	CAL000390986
Shipment Date:	2018-01-12
Manifest Number:	010801314FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001

Year:	2018
EM Manifest ID:	010801314FLE20180112_D_1
Generator EPA ID:	CAL000390986
Shipment Date:	2018-01-12
Manifest Number:	010801314FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D035

Year:	2018
EM Manifest ID:	010801314FLE20180112_D_1
Generator EPA ID:	CAL000390986
Shipment Date:	2018-01-12
Manifest Number:	010801314FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00150
Quantity Waste:	3.000000
Quantity Unit:	P
Number of Containers:	1

DOLLAR TREE #03134 (Continued) **S118234333**

Type of Container: NULL
Quantity Type: NULL
Federal Code: D002

Year: 2018
EM Manifest ID: 010801314FLE20180112_D_1
Generator EPA ID: CAL000390986
Shipment Date: 2018-01-12
Manifest Number: 010801314FLE
Line Number: 4
Method Code: H141
Quantity Tons: 0.00150
Quantity Waste: 3.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D001

State:
Year: 2018
EM Manifest ID: 010801314FLE20180112_D_1
Generator EPA ID: CAL000390986
Shipment Date: 2018-01-12
Manifest Number: 010801314FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00050
Quantity Waste: 1.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 331

Year: 2018
EM Manifest ID: 010801314FLE20180112_D_1
Generator EPA ID: CAL000390986
Shipment Date: 2018-01-12
Manifest Number: 010801314FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00050
Quantity Waste: 1.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 214

Year: 2018
EM Manifest ID: 010801314FLE20180112_D_1
Generator EPA ID: CAL000390986
Shipment Date: 2018-01-12
Manifest Number: 010801314FLE
Line Number: 3
Method Code: H141

DOLLAR TREE #03134 (Continued) **S118234333**

Quantity Tons:	0.00150
Quantity Waste:	3.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	122
Year:	2018
EM Manifest ID:	010801314FLE20180112_D_1
Generator EPA ID:	CAL000390986
Shipment Date:	2018-01-12
Manifest Number:	010801314FLE
Line Number:	4
Method Code:	H141
Quantity Tons:	0.00150
Quantity Waste:	3.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	141

Additional Info:

Year:	2017
Gen EPA ID:	CAL000390986
Shipment Date:	20170926
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	010202888FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217554
Trans 2 Name:	CRUZ CONTAINERS LOGISTICS INC
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.037
Waste Quantity:	74
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170926
Creation Date:	6/29/2018 18:30:18
Receipt Date:	20171004
Manifest ID:	010202888FLE

DOLLAR TREE #03134 (Continued) **S118234333**

Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217554
Trans 2 Name:	CRUZ CONTAINERS LOGISTICS INC
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.004
Waste Quantity:	8
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170926
Creation Date:	6/29/2018 18:30:18
Receipt Date:	20171004
Manifest ID:	010202888FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217554
Trans 2 Name:	CRUZ CONTAINERS LOGISTICS INC
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0015
Waste Quantity:	3
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170926
Creation Date:	6/29/2018 18:30:18
Receipt Date:	20171004
Manifest ID:	010202888FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217554
Trans 2 Name:	CRUZ CONTAINERS LOGISTICS INC
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported

DOLLAR TREE #03134 (Continued) **S118234333**

TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170926
Creation Date:	6/29/2018 18:30:18
Receipt Date:	20171004
Manifest ID:	010202888FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217554
Trans 2 Name:	CRUZ CONTAINERS LOGISTICS INC
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.004
Waste Quantity:	8
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170926
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	010202888FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217554
Trans 2 Name:	CRUZ CONTAINERS LOGISTICS INC
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.058
Waste Quantity:	116

DOLLAR TREE #03134 (Continued) **S118234333**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170517
Creation Date:	7/10/2018 18:30:09
Receipt Date:	20170522
Manifest ID:	008455050FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SST
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0045
Waste Quantity:	9
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170517
Creation Date:	7/10/2018 18:30:09
Receipt Date:	20170522
Manifest ID:	008455050FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SST
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

DOLLAR TREE #03134 (Continued) **S118234333**

Shipment Date:	20170517
Creation Date:	7/10/2018 18:30:09
Receipt Date:	20170522
Manifest ID:	008455050FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SST
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.016
Waste Quantity:	32
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20170517
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008455050FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SST
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.134
Waste Quantity:	268
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2016
Gen EPA ID:	CAL000390986

Shipment Date:	20150812
Creation Date:	10/1/2015 22:15:34
Receipt Date:	20150817

DOLLAR TREE #03134 (Continued) **S118234333**

Manifest ID:	007374432FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0135
Waste Quantity:	27
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150812
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007374432FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1025
Waste Quantity:	205
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150812
Creation Date:	10/1/2015 22:15:34
Receipt Date:	20150817
Manifest ID:	007374432FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC

DOLLAR TREE #03134 (Continued) **S118234333**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.004
Waste Quantity:	8
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150812
Creation Date:	10/1/2015 22:15:34
Receipt Date:	20150817
Manifest ID:	007374432FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0105
Waste Quantity:	21
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150812
Creation Date:	10/1/2015 22:15:34
Receipt Date:	20150817
Manifest ID:	007374432FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0015

DOLLAR TREE #03134 (Continued) **S118234333**

Waste Quantity:	3
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150325
Creation Date:	6/25/2015 22:15:36
Receipt Date:	20150331
Manifest ID:	007345626FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150325
Creation Date:	6/25/2015 22:15:36
Receipt Date:	20150331
Manifest ID:	007345626FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

DOLLAR TREE #03134 (Continued) **S118234333**

Shipment Date:	20150325
Creation Date:	6/25/2015 22:15:36
Receipt Date:	20150331
Manifest ID:	007345626FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.008
Waste Quantity:	16
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150325
Creation Date:	6/25/2015 22:15:36
Receipt Date:	20150331
Manifest ID:	007345626FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0415
Waste Quantity:	83
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150325
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007345626FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880

DOLLAR TREE #03134 (Continued) **S118234333**

Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0445
Waste Quantity:	89
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAL000390986
Shipment Date:	20150812
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007374432FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1025
Waste Quantity:	205
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150812
Creation Date:	10/1/2015 22:15:34
Receipt Date:	20150817
Manifest ID:	007374432FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC

DOLLAR TREE #03134 (Continued) **S118234333**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0015
Waste Quantity:	3
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150812
Creation Date:	10/1/2015 22:15:34
Receipt Date:	20150817
Manifest ID:	007374432FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0105
Waste Quantity:	21
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150812
Creation Date:	10/1/2015 22:15:34
Receipt Date:	20150817
Manifest ID:	007374432FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.004

DOLLAR TREE #03134 (Continued) **S118234333**

Waste Quantity:	8
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150812
Creation Date:	10/1/2015 22:15:34
Receipt Date:	20150817
Manifest ID:	007374432FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0135
Waste Quantity:	27
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150325
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007345626FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0445
Waste Quantity:	89
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

DOLLAR TREE #03134 (Continued) **S118234333**

Shipment Date:	20150325
Creation Date:	6/25/2015 22:15:36
Receipt Date:	20150331
Manifest ID:	007345626FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.008
Waste Quantity:	16
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150325
Creation Date:	6/25/2015 22:15:36
Receipt Date:	20150331
Manifest ID:	007345626FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150325
Creation Date:	6/25/2015 22:15:36
Receipt Date:	20150331
Manifest ID:	007345626FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880

DOLLAR TREE #03134 (Continued) **S118234333**

Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0415
Waste Quantity:	83
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150325
Creation Date:	6/25/2015 22:15:36
Receipt Date:	20150331
Manifest ID:	007345626FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2014
Gen EPA ID:	CAL000390986

Shipment Date:	20141105
Creation Date:	1/15/2015 22:14:55
Receipt Date:	20141111
Manifest ID:	007309393FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC

DOLLAR TREE #03134 (Continued) **S118234333**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141105
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007309393FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.023
Waste Quantity:	46
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141105
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007309393FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.003

DOLLAR TREE #03134 (Continued) **S118234333**

Waste Quantity:	6
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141105
Creation Date:	1/15/2015 22:14:55
Receipt Date:	20141111
Manifest ID:	007309393FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.008
Waste Quantity:	16
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141105
Creation Date:	1/15/2015 22:14:55
Receipt Date:	20141111
Manifest ID:	007309393FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.018
Waste Quantity:	36
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

DOLLAR TREE #03134 (Continued) **S118234333**

Shipment Date:	20141105
Creation Date:	1/15/2015 22:14:55
Receipt Date:	20141111
Manifest ID:	007309393FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0015
Waste Quantity:	3
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20140515
Creation Date:	10/17/2014 22:15:06
Receipt Date:	20140529
Manifest ID:	006397864FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.004
Waste Quantity:	8
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20140515
Creation Date:	10/17/2014 22:15:06
Receipt Date:	20140529
Manifest ID:	006397864FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791

DOLLAR TREE #03134 (Continued) **S118234333**

Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	DOLLAR TREE #03134
Address:	4200 CHINO HILLS PKWY STE 760
City,State,Zip:	CHINO HILLS, CA 91709
Site ID:	25840
CERS ID:	10467667
CERS Description:	Chemical Storage Facilities

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-14-2021
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-14-2021
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-10-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-19-2018
Violations Found:	No
Eval Type:	Routine done by local agency

DOLLAR TREE #03134 (Continued) **S118234333**

Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Jose Figueora
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Dollar Tree Stores, Inc
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (757) 321-5000,

Affiliation Type Desc: Parent Corporation
Entity Name: Dollar Tree Stores, Inc.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Property Owner
Entity Name: Weingarten Nostat, Inc. c/o Weingarten Realty Investors
Entity Title: Not reported
Affiliation Address: 2600 Citadel Plaza Drive, Sutie 125
Affiliation City: Houston
Affiliation State: TX
Affiliation Country: United States
Affiliation Zip: 77008
Affiliation Phone: (713) 868-6529,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 500 Volvo Pkwy
Affiliation City: Chesapeake
Affiliation State: VA
Affiliation Country: Not reported
Affiliation Zip: 23320
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer

DOLLAR TREE #03134 (Continued) **S118234333**

Entity Name:	Jose Figueora
Entity Title:	EH&S Specialist
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Silvestre Luna
Entity Title:	Not reported
Affiliation Address:	1122 Runway Drive
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95206
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	Dollar Tree Stores, Inc
Entity Title:	Not reported
Affiliation Address:	500 Volvo Pkwy
Affiliation City:	Chesapeake
Affiliation State:	VA
Affiliation Country:	United States
Affiliation Zip:	23320
Affiliation Phone:	(757) 321-5000,

C39 **RITE AID #5578** **RCRA-LQG** **1016954723**
WSW **4200 CHINO HILLS PKWY STE 500** **CAL000379780**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 27 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

RCRA Listings:

Date Form Received by Agency:	20140301
Handler Name:	Rite Aid #5578
Handler Address:	Chino Hills Pkwy Ste 500
Handler City,State,Zip:	CHINO HILLS, CA 91709
EPA ID:	CAL000379780
Contact Name:	STEPHANIE A CAIATI
Contact Address:	HUNTER LN
Contact City,State,Zip:	CAMP HILL, PA 17011
Contact Telephone:	717-730-8225
Contact Fax:	717-972-3989
Contact Email:	SSCAIATI@RITEAID.COM

RITE AID #5578 (Continued) **1016954723**

Contact Title:	DIRECTOR, EH&S
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2013
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	HUNTER LN
Mailing City,State,Zip:	CAMP HILL, PA 17011
Owner Name:	Thrifty Payless
Owner Type:	Private
Operator Name:	Rite Aid Corp
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20141120
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

RITE AID #5578 (Continued) **1016954723**

Biennial: List of Years
Year: 2013

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D001
Waste Description: Ignitable Waste

Waste Code: D002
Waste Description: Corrosive Waste

Waste Code: D007
Waste Description: Chromium

Waste Code: D009
Waste Description: Mercury

Waste Code: D010
Waste Description: Selenium

Waste Code: D011
Waste Description: Silver

Waste Code: D024
Waste Description: M-Cresol

Waste Code: D026
Waste Description: Cresol

Waste Code: P001
Waste Description: 2h-1-Benzopyran-2-One, 4-Hydroxy-3-(3-Oxo-1-Phenylbutyl)-, & Salts, When Present At Concentrations Greater Than 0.3% (Or) Warfarin, & Salts, When Present At Concentrations Greater Than 0.3%

Waste Code: P075
Waste Description: Nicotine, & Salts (Or) Pyridine, 3-(1-Methyl-2-Pyrrolidinyl)-,(S)-, & Salts

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: RITE AID CORP
Legal Status: Private
Date Became Current: 19970306
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: THRIFTY PAYLESS
Legal Status: Private
Date Became Current: 19970306

RITE AID #5578 (Continued) **1016954723**

Date Ended Current: Not reported
Owner/Operator Address: 30 HUNTER LN
Owner/Operator City,State,Zip: CAMP HILL, PA 17011
Owner/Operator Telephone: 717-761-2633
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20140301
Handler Name: RITE AID #5578
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 44611
NAICS Description: PHARMACIES AND DRUG STORES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C40 **CARL'S JR #603** **San Bern. Co. Permit** **S109598484**
WSW **4200 CHINO HILLS PKY 220** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 28 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

San Bern. Co. Permit:
Name: CARL'S JR #603
Address: 4200 CHINO HILLS PKY 220
City,State,Zip: CHINO HILLS, CA 91709
Region: SAN BERNARDINO
Facility ID: FA0012447
Owner: CKE RESTAURANTS INC
Permit Number: PT0021808
Permit Category: BULK CO2 AT RETAIL FOOD FACILITIES
Facility Status: INACTIVE
Expiration Date: 05/31/2010

C41 **ECO CLEANERS** **DRYCLEANERS** **S113130364**
WSW **4200 CHINO HILLS PKWY** **HWTS** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709** **HAZNET**
0.152 mi.
802 ft. **Site 29 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

DRYCLEANERS:

Name:	ECO CLEANERS
Address:	4200 CHINO HILLS PKWY
City,State,Zip:	CHINO HILLS, CA 91709
EPA Id:	CAL000399272
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	07/29/2014
Facility Active:	No
Inactive Date:	06/30/2015
Facility Addr2:	Not reported
Owner Name:	CHONG SAM LEE
Owner Address:	8502 KENDRA LN
Owner Address 2:	Not reported
Owner Telephone:	9099933777
Contact Name:	CHONG LEE
Contact Address:	8502 KENDRA LN
Contact Address 2:	Not reported
Contact Telephone:	9099933777
Contact Fax:	Not reported
Mailing Name:	Not reported
Mailing Address 1:	4200 CHINO HILLS PKWY
Mailing Address 2:	Not reported
Mailing City:	CHINO HILLS
Mailing State:	CA
Mailing Zip:	91709
Owner Fax:	Not reported
Region Code:	4
Latitude:	0
Longitude:	0

HWTS:

Name:	CIRCLE K STORES INC 2705728
Address:	4200 CHINO HILLS PKWY
Address 2:	Not reported
City,State,Zip:	CHINO HILLS, CA 91709
EPA ID:	CAL000278574
Inactive Date:	Not reported
Create Date:	01/23/2004
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	PO BOX 52085
Mailing Address 2:	Not reported
Mailing City,State,Zip:	PHOENIX, AZ 850720000
Owner Name:	SARAH LONGWELL
Owner Address:	PO BOX 52085
Owner Address 2:	Not reported
Owner City,State,Zip:	PHOENIX, AZ 850720000
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	YOLANDA JONES

ECO CLEANERS (Continued) **S113130364**

Contact Address: PO BOX 52085
Contact Address 2: Not reported
City,State,Zip: PHOENIX, AZ 85072
Contact Phone: Not reported
Contact Fax: Not reported
Facility Status: Active
Facility Type: PERMANENT
Category: STATE
Latitude: 33.982678
Longitude: -117.715074

NAICS:
EPA ID: CAL000278574
Create Date: 2004-01-23 13:43:51.020
NAICS Code: 4471
NAICS Description: Gasoline Stations
Issued EPA ID Date: 2004-01-23 13:43:51.02000
Inactive Date: Not reported
Facility Name: CIRCLE K STORES INC 2705728
Facility Address: 4200 CHINO HILLS PKWY
Facility Address 2: Not reported
Facility City: CHINO HILLS
Facility County: Not reported
Facility State: CA
Facility Zip: 91709

Name: ECO CLEANERS
Address: 4200 CHINO HILLS PKWY
Address 2: Not reported
City,State,Zip: CHINO HILLS, CA 91709
EPA ID: CAL000399272
Inactive Date: 06/30/2015
Create Date: 07/29/2014
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 4200 CHINO HILLS PKWY
Mailing Address 2: Not reported
Mailing City,State,Zip: CHINO HILLS, CA 91709
Owner Name: CHONG SAM LEE
Owner Address: 8502 KENDRA LN
Owner Address 2: Not reported
Owner City,State,Zip: EASTVALE, CA 92880
Owner Phone: Not reported
Owner Fax: Not reported
Contact Name: CHONG LEE
Contact Address: 8502 KENDRA LN
Contact Address 2: Not reported
City,State,Zip: EASTVALE, CA 92880
Contact Phone: Not reported
Contact Fax: Not reported
Facility Status: Inactive
Facility Type: PERMANENT
Category: STATE
Latitude: 33.982821
Longitude: -117.7130295

NAICS:

ECO CLEANERS (Continued) **S113130364**

EPA ID: CAL000399272
Create Date: 2014-07-29 09:51:11.270
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
Issued EPA ID Date: 2014-07-29 09:51:11.24000
Inactive Date: 2015-06-30 00:00:00
Facility Name: ECO CLEANERS
Facility Address: 4200 CHINO HILLS PKWY
Facility Address 2: Not reported
Facility City: CHINO HILLS
Facility County: Not reported
Facility State: CA
Facility Zip: 91709

HAZNET:
Name: CIRCLE K STORES INC 2705728
Address: 4200 CHINO HILLS PKWY
Address 2: Not reported
City,State,Zip: CHINO HILLS, CA 91709
Contact: YOLANDA JONES
Telephone: 6027288000
Mailing Name: Not reported
Mailing Address: PO BOX 52085

Year: 2020
Gepaid: CAL000278574
TSD EPA ID: NVT330010000
CA Waste Code: 352 - Other organic solids
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.04

Year: 2020
Gepaid: CAL000278574
TSD EPA ID: CAT080013352
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.063

Year: 2019
Gepaid: CAL000278574
TSD EPA ID: CAT080013352
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.08400

Year: 2018
Gepaid: CAL000278574
TSD EPA ID: NVT330010000
CA Waste Code: 352 - Other organic solids
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)

ECO CLEANERS (Continued) **S113130364**

Tons:	0.03500
Year:	2017
Gepaid:	CAL000278574
TSD EPA ID:	NVT330010000
CA Waste Code:	352 - Other organic solids
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.05
Year:	2017
Gepaid:	CAL000278574
TSD EPA ID:	CAT080013352
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.0042
Year:	2016
Gepaid:	CAL000278574
TSD EPA ID:	NVT330010000
CA Waste Code:	352 - Other organic solids
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.05
Year:	2016
Gepaid:	CAL000278574
TSD EPA ID:	CAT080013352
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.0924
Year:	2015
Gepaid:	CAL000278574
TSD EPA ID:	NVT330010000
CA Waste Code:	352 - Other organic solids
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.02
Year:	2015
Gepaid:	CAL000278574
TSD EPA ID:	CAT080013352
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.042

Click this hyperlink while viewing on your computer to access
26 additional CA HAZNET: record(s) in the EDR Site Report.

ECO CLEANERS (Continued) **S113130364**

Additional Info:

Year:	2020
Gen EPA ID:	CAL000278574
Shipment Date:	5/14/2020
Creation Date:	6/5/2020
Receipt Date:	5/21/2020
Manifest ID:	014681762FLE
Trans EPA ID:	CAR000183913
Trans Name:	BELSHIRE TRANSPORTATION SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	WORLD OIL RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	1/2/2020
Creation Date:	11/20/2020
Receipt Date:	1/8/2020
Manifest ID:	014261135FLE
Trans EPA ID:	CAR000183913
Trans Name:	BELSHIRE TRANSPORTATION SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA, INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.04
Waste Quantity:	80
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2017

ECO CLEANERS (Continued) **S113130364**

Gen EPA ID:	CAL000278574
Shipment Date:	20170817
Creation Date:	7/27/2018 18:30:12
Receipt Date:	20170823
Manifest ID:	010628050FLE
Trans EPA ID:	CAR000183913
Trans Name:	BELSHIRE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA OPERATIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170301
Creation Date:	5/22/2017 18:30:49
Receipt Date:	20170307
Manifest ID:	009684056FLE
Trans EPA ID:	CAR000183913
Trans Name:	BELSHIRE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.0042
Waste Quantity:	1
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170301
Creation Date:	5/11/2018 18:33:05
Receipt Date:	20170308
Manifest ID:	009684055FLE
Trans EPA ID:	CAR000183913

ECO CLEANERS (Continued) **S113130364**

Trans Name:	BELSHIRE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA OPERATIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2016
Gen EPA ID:	CAL000278574
Shipment Date:	20150910
Creation Date:	11/17/2015 22:15:32
Receipt Date:	20150917
Manifest ID:	008700190FLE
Trans EPA ID:	CAR000183913
Trans Name:	BELSHIRE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.042
Waste Quantity:	10
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150910
Creation Date:	2/9/2016 22:15:26
Receipt Date:	20150916
Manifest ID:	008700189FLE
Trans EPA ID:	CAR000183913
Trans Name:	BELSHIRE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

ECO CLEANERS (Continued) **S113130364**

TSDF EPA ID: NVT330010000
Trans Name: US ECOLOGY NEVADA OPERATIONS
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: D018
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons: 0.02
Waste Quantity: 40
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2015
Gen EPA ID: CAL000278574

Shipment Date: 20150910
Creation Date: 11/17/2015 22:15:32
Receipt Date: 20150917
Manifest ID: 008700190FLE
Trans EPA ID: CAR000183913
Trans Name: BELSHIRE
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080013352
Trans Name: DEMENNO KERDOON
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 134 - Aqueous solution with <10% total organic residues
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 0.042
Waste Quantity: 10
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20150910
Creation Date: 2/9/2016 22:15:26
Receipt Date: 20150916
Manifest ID: 008700189FLE
Trans EPA ID: CAR000183913
Trans Name: BELSHIRE
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: NVT330010000
Trans Name: US ECOLOGY NEVADA OPERATIONS
TSDF Alt EPA ID: Not reported

ECO CLEANERS (Continued) **S113130364**

TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: D018
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons: 0.02
Waste Quantity: 40
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2014
Gen EPA ID: CAL000278574

Shipment Date: 20141009
Creation Date: 12/31/2014 22:14:53
Receipt Date: 20141016
Manifest ID: 007638490FLE
Trans EPA ID: CAR000183913
Trans Name: BELSHIRE
Trans 2 EPA ID: CAT080016116
Trans 2 Name: NIETO AND SONS TRUCKING INC
TSDF EPA ID: CAT080013352
Trans Name: DEMENNO KERDOON
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 134 - Aqueous solution with <10% total organic residues
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 0.126
Waste Quantity: 30
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20141009
Creation Date: 3/5/2015 22:15:08
Receipt Date: 20141015
Manifest ID: 007638489FLE
Trans EPA ID: CAR000183913
Trans Name: BELSHIRE
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: NVT330010000
Trans Name: US ECOLOGY NEVADA OPERATIONS
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: D018

ECO CLEANERS (Continued) **S113130364**

Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons: 0.04
Waste Quantity: 80
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2013
Gen EPA ID: CAL000278574

Shipment Date: 20131205
Creation Date: 2/18/2014 22:15:13
Receipt Date: 20131211
Manifest ID: 005763052FLE
Trans EPA ID: CAR000183913
Trans Name: BELSHIRE
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080013352
Trans Name: DEMENNO KERDOON
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 134 - Aqueous solution with <10% total organic residues
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 0.084
Waste Quantity: 20
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20130305
Creation Date: 7/12/2013 22:15:06
Receipt Date: 20130306
Manifest ID: 005785437FLE
Trans EPA ID: CAR000183913
Trans Name: BELSHIRE
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: NVT330010000
Trans Name: US ECOLOGY NEVADA OPERATIONS
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons: 0.075

ECO CLEANERS (Continued) **S113130364**

Waste Quantity: 150
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20130305
Creation Date: 5/3/2013 22:15:44
Receipt Date: 20130312
Manifest ID: 005785438FLE
Trans EPA ID: CAR000183913
Trans Name: BELSHIRE
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080013352
Trans Name: DEMENNO KERDOON
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 134 - Aqueous solution with <10% total organic residues
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 0.105
Waste Quantity: 25
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2012
Gen EPA ID: CAL000278574

Shipment Date: 20121210
Creation Date: 3/7/2013 22:15:08
Receipt Date: 20121220
Manifest ID: 005774174FLE
Trans EPA ID: CAR000183913
Trans Name: BELSHIRE
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080013352
Trans Name: DEMENNO KERDOON
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 134 - Aqueous solution with <10% total organic residues
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 0.189
Waste Quantity: 45
Quantity Unit: G
Additional Code 1: Not reported

ECO CLEANERS (Continued) **S113130364**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120723
Creation Date:	9/26/2012 22:15:10
Receipt Date:	20120725
Manifest ID:	004666705FLE
Trans EPA ID:	CAR000183913
Trans Name:	BELSHIRE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.0378
Waste Quantity:	9
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120302
Creation Date:	4/19/2012 20:30:22
Receipt Date:	20120305
Manifest ID:	009503094JJK
Trans EPA ID:	CAR000172460
Trans Name:	ENVIRONMENTAL LOGISTICS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.105
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120302
Creation Date:	4/19/2012 20:30:22

ECO CLEANERS (Continued) **S113130364**

Receipt Date:	20120305
Manifest ID:	009503094JJK
Trans EPA ID:	CAR000172460
Trans Name:	ENVIRONMENTAL LOGISTICS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120302
Creation Date:	4/19/2012 20:30:22
Receipt Date:	20120305
Manifest ID:	009503094JJK
Trans EPA ID:	CAR000172460
Trans Name:	ENVIRONMENTAL LOGISTICS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2011
Gen EPA ID:	CAL000278574

Shipment Date:	20111114
Creation Date:	1/20/2012 20:31:29
Receipt Date:	20111115
Manifest ID:	009217759JJK
Trans EPA ID:	CAR000172460
Trans Name:	ENVIRONMENTAL LOGISTICS INC

ECO CLEANERS (Continued) **S113130364**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H010 - Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20111114
Creation Date:	1/20/2012 20:31:29
Receipt Date:	20111115
Manifest ID:	009217759JJK
Trans EPA ID:	CAR000172460
Trans Name:	ENVIRONMENTAL LOGISTICS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20111114
Creation Date:	1/20/2012 20:31:29
Receipt Date:	20111115
Manifest ID:	009217759JJK
Trans EPA ID:	CAR000172460
Trans Name:	ENVIRONMENTAL LOGISTICS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

ECO CLEANERS (Continued) **S113130364**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.147
Waste Quantity:	35
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111114
Creation Date:	1/20/2012 20:31:29
Receipt Date:	20111115
Manifest ID:	009217759JJK
Trans EPA ID:	CAR000172460
Trans Name:	ENVIRONMENTAL LOGISTICS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110318
Creation Date:	5/5/2011 18:30:20
Receipt Date:	20110321
Manifest ID:	008108728JJK
Trans EPA ID:	CAR000172460
Trans Name:	ENVIRONMENTAL LOGISTICS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.315
Waste Quantity:	75
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

ECO CLEANERS (Continued) **S113130364**

Additional Code 5:	Not reported
Shipment Date:	20110318
Creation Date:	5/5/2011 18:30:20
Receipt Date:	20110321
Manifest ID:	008108728JJK
Trans EPA ID:	CAR000172460
Trans Name:	ENVIRONMENTAL LOGISTICS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

C42 **CIRCLE K STORES INC 2705728** **RCRA NonGen / NLR** **1024808195**
WSW **4200 CHINO HILLS PKWY** **CAL000278574**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 30 of 32 in cluster C**

Relative: **Higher**
Actual: **647 ft.**

RCRA Listings:

Date Form Received by Agency:	20040123
Handler Name:	Circle K Stores Inc 2705728
Handler Address:	4200 Chino Hills Pkwy
Handler City,State,Zip:	CHINO HILLS, CA 91709
EPA ID:	CAL000278574
Contact Name:	KRISTI HODGE
Contact Address:	255 E. RINCON ST. SUITE 100
Contact City,State,Zip:	CORONA, CA 92879
Contact Telephone:	951-270-5153
Contact Fax:	951-270-5116
Contact Email:	KHODGE@CIRCLEK.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	255 E RINCON ST STE 100
Mailing City,State,Zip:	CORONA, CA 92879-0000
Owner Name:	Circle K Stores Inc
Owner Type:	Other

CIRCLE K STORES INC 2705728 (Continued) **1024808195**

Operator Name:	Kristi Hodge
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: KRISTI HODGE	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	255 E. RINCON ST. SUITE 100
Owner/Operator City,State,Zip:	CORONA, CA 92879
Owner/Operator Telephone:	951-270-5153
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

CIRCLE K STORES INC 2705728 (Continued) **1024808195**

Owner/Operator Indicator: Owner
Owner/Operator Name: CIRCLE K STORES INC
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 255 E RINCON ST STE 100
Owner/Operator City,State,Zip: CORONA, CA 92879-0000
Owner/Operator Telephone: 951-270-5153
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20040123
Handler Name: CIRCLE K STORES INC 2705728
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 4471
NAICS Description: GASOLINE STATIONS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C43 **CIRCLE K STORE #2705728** **UST FINDER** **1028180812**
WSW **4200 CHINO HILLS PKWY** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 31 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

UST FINDER:
Object ID: 725043
Facility ID: CA10037635
Name: CIRCLE K STORE #2705728
Address: 4200 CHINO HILLS PKWY
City,State,Zip: CHINO HILLS, CA 91709
Address Match Type: PointAddress
Open USTs: 2
Closed USTs: Not reported
TOS USTs: Not reported
Population 1500ft: 1462
Private Wells 1500ft: 2
Within 100yr Floodplain: No

CIRCLE K STORE #2705728 (Continued) **1028180812**

Land Use:	Developed, Medium Intensity
Within SPA:	Not reported
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	Not reported
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Facility Status:	Open UST(s)
Date of Last Inspection:	Not reported
EPA Region:	9
Tribe:	Not reported
Coordinate Source:	Geocode
X Coord:	-117.713030017
Y Coord:	33.982819991
Latitude:	33.9828199911783
Longitude:	-117.713030016847

UST FINDER:

Object ID:	2241480
Facility ID:	CA10037635
Tank ID:	CA10037635-001_A Stand-alone Tank_1
Tank Status:	Open
Installation Date:	1991/03/29 15:59:59+00
Removal Date:	Not reported
Tank Capacity:	12038
Substances:	Regular Unleaded
Tank Wall Type:	Double Wall

Object ID:	2241481
Facility ID:	CA10037635
Tank ID:	CA10037635-002_A Stand-alone Tank_1
Tank Status:	Open
Installation Date:	1991/03/29 15:59:59+00
Removal Date:	Not reported
Tank Capacity:	12038
Substances:	Premium Unleaded
Tank Wall Type:	Double Wall

C44 **CIRCLE K #5728** **UST FINDER RELEASE** **1028935764**
WSW **4200 CHINO HILLS PARKWAY #205** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709**
0.152 mi.
802 ft. **Site 32 of 32 in cluster C**

Relative:
Higher

Actual:
647 ft.

UST FINDER RELEASE:

Object ID:	69127
Facility ID:	Not reported
Lust ID:	CAT0607174333
Name:	CIRCLE K #5728
Address:	4200 CHINO HILLS PARKWAY #205
City,State,Zip:	CHINO HILLS, CA 91709
Address Match Type:	Subaddress
Reported Date:	Not reported

CIRCLE K #5728 (Continued) **1028935764**

Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	1476
Domestic Wells within 1500ft:	2
Land Use:	Developed, Medium Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	9
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	Geocode
X Coord:	-117.71302
Y Coord:	33.98274
Latitude:	33.98274
Longitude:	-117.71302

D45 **VERIZON WIRELESS: LASSEN SB RELO PERM** **San Bern. Co. Permit** **S122499454**
NE **14664 RAMONA AVE** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.204 mi.
1076 ft. **Site 1 of 4 in cluster D**

Relative:
Lower

Actual:
628 ft.

San Bern. Co. Permit:

Name:	VERIZON WIRELESS: LASSEN SB RELO PERM
Address:	14664 RAMONA AVE
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0017896
Owner:	Verizon Wireless
Permit Number:	PT0038619
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status:	INACTIVE
Expiration Date:	12/31/2020

Name:	VERIZON WIRELESS: LASSEN SB RELO PERM
Address:	14664 RAMONA AVE
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0017896
Owner:	Verizon Wireless
Permit Number:	PT0040659
Permit Category:	NON-GENERATOR/NON-HANDLER SURVEY(NB)
Facility Status:	INACTIVE
Expiration Date:	12/31/2019

46
SE
1/8-1/4
0.204 mi.
1077 ft.

CORNER BAKERY CAFE
4517 CHINO HILLS PKY 205
CHINO HILLS, CA 91709

San Bern. Co. Permit **S109598529**
N/A

Relative:
Lower

Actual:
629 ft.

San Bern. Co. Permit:

Name:	CORNER BAKERY CAFE
Address:	4517 CHINO HILLS PKY 205
City,State,Zip:	CHINO HILLS, CA 91709
Region:	SAN BERNARDINO
Facility ID:	FA0012387
Owner:	CBC RESTAURANT CORP
Permit Number:	PT0021706
Permit Category:	BULK CO2 AT RETAIL FOOD FACILITIES
Facility Status:	INACTIVE
Expiration Date:	05/31/2010

D47
NE
1/8-1/4
0.224 mi.
1185 ft.

CALIBER COLLISION CENTER
14622 RAMONA AVE
CHINO, CA 91710

Site 2 of 4 in cluster D

RCRA NonGen / NLR **1024812754**
CAL000301199

Relative:
Lower

Actual:
629 ft.

RCRA Listings:

Date Form Received by Agency:	20220310
Handler Name:	Caliber Collision Center
Handler Address:	14622 Ramona Ave
Handler City,State,Zip:	CHINO, CA 91710-5745
EPA ID:	CAL000301199
Contact Name:	SHARON LAWRENCE
Contact Address:	2941 LAKE VISTA DRIVE
Contact City,State,Zip:	LEWISVILLE, TX 75067
Contact Telephone:	469-948-9630
Contact Fax:	972-906-7214
Contact Email:	SHARON.LAWRENCE@CALIBERCOLLISION.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	2021
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	2941 LAKE VISTA DRIVE
Mailing City,State,Zip:	LEWISVILLE, TX 75067
Owner Name:	Caliber Collision Bodyworks Inc
Owner Type:	Other
Operator Name:	Sharon Lawrence
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No

CALIBER COLLISION CENTER (Continued) **1024812754**

Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220617
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2021

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste
Waste Code:	D005
Waste Description:	Barium
Waste Code:	D006
Waste Description:	Cadmium
Waste Code:	D007
Waste Description:	Chromium
Waste Code:	D008
Waste Description:	Lead
Waste Code:	D035
Waste Description:	Methyl Ethyl Ketone

CALIBER COLLISION CENTER (Continued) **1024812754**

Waste Code: F003
Waste Description: The Following Spent Nonhalogenated Solvents: Xylene, Acetone, Ethyl Acetate, Ethyl Benzene, Ethyl Ether, Methyl Isobutyl Ketone, N-Butyl Alcohol, Cyclohexanone, And Methanol; All Spent Solvent Mixtures/Blends Containing, Before Use, Only The Above Spent Nonhalogenated Solvents; And All Spent Solvent Mixtures/Blends Containing, Before Use, One Or More Of The Above Nonhalogenated Solvents, And A Total Of Ten Percent Or More (By Volume) Of One Or More Of Those Solvents Listed In F001, F002, F004, And F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Waste Code: F005
Waste Description: The Following Spent Nonhalogenated Solvents: Toluene, Methyl Ethyl Ketone, Carbon Disulfide, Isobutanol, Pyridine, Benzene, 2-Ethoxyethanol, And 2-Nitropropane; All Spent Solvent Mixtures/Blends Containing, Before Use, A Total Of Ten Percent Or More (By Volume) Of One Or More Of The Above Nonhalogenated Solvents Or Those Solvents Listed In F001, F002, Or F004; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: SHARON LAWRENCE
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 401 E CORPORATE DR STE 150
Owner/Operator City,State,Zip: LEWISVILLE, TX 75057
Owner/Operator Telephone: 469-948-9630
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: CALIBER COLIISION BODYWORKS INC
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 401 E CORPORATE DR STE 150
Owner/Operator City,State,Zip: LEWISVILLE, TX 75057-6449
Owner/Operator Telephone: 713-444-8606
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: CALIBER COLLISION BODYWORKS INC
Legal Status: Other
Date Became Current: 19990503
Date Ended Current: Not reported
Owner/Operator Address: 2941 LAKE VISTA DRIVE
Owner/Operator City,State,Zip: LEWISVILLE, TX 75067
Owner/Operator Telephone: 713-444-8606
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: LICENSEANDPERMITS@CALIBERCOLLISION.COM

CALIBER COLLISION CENTER (Continued) **1024812754**

Owner/Operator Indicator: Operator
Owner/Operator Name: SHARON LAWRENCE
Legal Status: Other
Date Became Current: 19990503
Date Ended Current: Not reported
Owner/Operator Address: 2941 LAKE VISTA DRIVE
Owner/Operator City,State,Zip: LEWISVILLE, TX 75067
Owner/Operator Telephone: 469-948-9630
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: LICENSEANDPERMITS@CALIBERCOLLISION.COM

Historic Generators:
Receive Date: 20220310
Handler Name: CALIBER COLLISION CENTER
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20051207
Handler Name: CALIBER COLLISION CENTER
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 811121
NAICS Description: AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

D48 **CALIBER COLLISION CENTER - CHINO VALLEY #0014** **RCRA-SQG** **1027703242**
NE **14622 RAMONA AVENUE** **CAR000356907**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 3 of 4 in cluster D**

Relative:
Lower

Actual:
629 ft.

RCRA Listings:

Date Form Received by Agency:	20230703
Handler Name:	Caliber Collision Center - Chino Valley #0014
Handler Address:	Ramona Avenue
Handler City,State,Zip:	CHINO, CA 91710
EPA ID:	CAR000356907
Contact Name:	GREGORY NICHOLS
Contact Address:	LAKE VISTA
Contact City,State,Zip:	LEWISVILLE, TX 75067
Contact Telephone:	469-948-9500
Contact Fax:	Not reported
Contact Email:	LICENSEANDPERMITS@CALIBERCOLLISON.COM
Contact Title:	CAO
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	LAKE VISTA
Mailing City,State,Zip:	LEWISVILLE, TX 75067
Owner Name:	Caliber Bodyworks Llc
Owner Type:	Private
Operator Name:	Caliber Bodyworks Llc
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

CALIBER COLLISION CENTER - CHINO VALLEY #0014 (Continued) **1027703242**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20230707
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste
Waste Code:	D005
Waste Description:	Barium
Waste Code:	D006
Waste Description:	Cadmium
Waste Code:	D007
Waste Description:	Chromium
Waste Code:	D008
Waste Description:	Lead
Waste Code:	D035
Waste Description:	Methyl Ethyl Ketone
Waste Code:	D039
Waste Description:	Tetrachloroethylene
Waste Code:	D040
Waste Description:	Trichlorethylene
Waste Code:	F003
Waste Description:	The Following Spent Nonhalogenated Solvents: Xylene, Acetone, Ethyl Acetate, Ethyl Benzene, Ethyl Ether, Methyl Isobutyl Ketone, N-Butyl Alcohol, Cyclohexanone, And Methanol; All Spent Solvent Mixtures/Blends Containing, Before Use, Only The Above Spent Nonhalogenated Solvents; And All Spent Solvent Mixtures/Blends Containing, Before Use, One Or More Of The Above Nonhalogenated Solvents, And A Total Of Ten Percent Or More (By Volume) Of One Or More Of Those Solvents Listed In F001, F002, F004, And F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.
Waste Code:	F005
Waste Description:	The Following Spent Nonhalogenated Solvents: Toluene, Methyl Ethyl Ketone, Carbon Disulfide, Isobutanol, Pyridine, Benzene,

CALIBER COLLISION CENTER - CHINO VALLEY #0014 (Continued) **1027703242**

2-Ethoxyethanol, And 2-Nitropropane; All Spent Solvent Mixtures/Blends Containing, Before Use, A Total Of Ten Percent Or More (By Volume) Of One Or More Of The Above Nonhalogenated Solvents Or Those Solvents Listed In F001, F002, Or F004; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: CALIBER BODYWORKS LLC
Legal Status: Private
Date Became Current: 19990503
Date Ended Current: Not reported
Owner/Operator Address: 2941 LAKE VISTA
Owner/Operator City,State,Zip: LEWISVILLE, TX 75067
Owner/Operator Telephone: 469-948-9500
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: LICENSEANDPERMITS@CALIBERCOLLISON.COM

Owner/Operator Indicator: Owner
Owner/Operator Name: CALIBER BODYWORKS LLC
Legal Status: Private
Date Became Current: 19990503
Date Ended Current: Not reported
Owner/Operator Address: 2941 LAKE VISTA
Owner/Operator City,State,Zip: LEWISVILLE, TX 75067
Owner/Operator Telephone: 469-948-9500
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: LICENSEANDPERMITS@CALIBERCOLLISON.COM

Historic Generators:
Receive Date: 20230703
Handler Name: CALIBER COLLISION CENTER - CHINO VALLEY #0014
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 811121
NAICS Description: AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

D49 CALIBER COLLISION CENTERS - CHINO VALLEY **CERS HAZ WASTE** **S108200173**
NE 14622 RAMONA AVE **HWTS** **N/A**
1/8-1/4 CHINO, CA 91710 **San Bern. Co. Permit**
0.224 mi. **CERS**
1185 ft. Site 4 of 4 in cluster D

Relative:
Lower

Actual:
629 ft.

CERS HAZ WASTE:

Name:	CALIBER COLLISION CENTERS - CHINO VALLEY
Address:	14622 RAMONA AVE
City,State,Zip:	CHINO, CA 91710
Site ID:	101667
CERS ID:	10036741
CERS Description:	Hazardous Waste Generator

HWTS:

Name:	CALIBER COLLISION CENTER CHINO VALLEY 0014
Address:	14622 RAMONA AVE
Address 2:	Not reported
City,State,Zip:	CHINO, CA 91710
EPA ID:	CAR000356907
Inactive Date:	Not reported
Create Date:	07/07/2023
Last Act Date:	07/07/2023
Mailing Name:	Not reported
Mailing Address:	2941 LAKE VISTA
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LEWISVILLE, TX
Owner Name:	CALIBER BODYWORKS LLC
Owner Address:	2941 LAKE VISTA
Owner Address 2:	Not reported
Owner City,State,Zip:	LEWISVILLE, TX 75067
Owner Phone:	4699489500
Owner Fax:	Not reported
Contact Name:	GREGORY NICHOLS
Contact Address:	2941 LAKE VISTA
Contact Address 2:	Not reported
City,State,Zip:	LEWISVILLE, TX 75067
Contact Phone:	4699489500
Contact Fax:	Not reported
Facility Status:	Not reported
Facility Type:	Not reported
Category:	Not reported
Latitude:	Not reported
Longitude:	Not reported

San Bern. Co. Permit:

Name:	CALIBER COLLISION CENTERS - CHINO VALLEY
Address:	14622 RAMONA AVE
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0001694
Owner:	Caliber Bodyworks, Inc
Permit Number:	PT0000121
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	03/31/2024

Name: CALIBER COLLISION CENTERS - CHINO VALLEY

CALIBER COLLISION CENTERS - CHINO VALLEY (Continued) **S108200173**

Address: 14622 RAMONA AVE
City,State,Zip: CHINO, CA 91710
Region: SAN BERNARDINO
Facility ID: FA0001694
Owner: Caliber Bodyworks, Inc
Permit Number: PT0000122
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 03/31/2024

CERS:
Name: CALIBER COLLISION CENTERS - CHINO VALLEY
Address: 14622 RAMONA AVE
City,State,Zip: CHINO, CA 91710
Site ID: 101667
CERS ID: 10036741
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 101667
Site Name: CALIBER COLLISION CENTERS - CHINO VALLEY
Violation Date: 07-15-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 08/10/2015. Failure to operate and maintain facility to prevent a fire, spill or release (CCR 66265.31)
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 101667
Site Name: CALIBER COLLISION CENTERS - CHINO VALLEY
Violation Date: 08-28-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 09/10/2018. OBSERVATION: At time of inspection, the hazardous materials inventory submitted to CERS was not consistent with what was observed on site. At time of inspection, (3) 55 gal drums of waste sandpaper/bondo dust was not included in the Business Plan. CORRECTIVE ACTION: Submit an accurate and complete hazardous materials inventory into the California Environmental Reporting System (CERS).
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-28-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department

CALIBER COLLISION CENTERS - CHINO VALLEY (Continued) **S108200173**

Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-12-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-12-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-15-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: CALIBER COLLISION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-15-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: CALIBER COLLISION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-28-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 101667
Site Name: CALIBER COLLISION CENTERS - CHINO VALLEY
Site Address: 14622 RAMONA AVE
Site City: CHINO
Site Zip: 91710
Enf Action Date: 07-15-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection

CALIBER COLLISION CENTERS - CHINO VALLEY (Continued) **S108200173**

Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Coordinates:
Site ID: 101667
Facility Name: CALIBER COLLISION CENTERS - CHINO VALLEY
Env Int Type Code: HWG
Program ID: 10036741
Coord Name: Not reported
Ref Point Type Desc: Unknown,
Latitude: 33.987770
Longitude: -117.707367

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Allison Kahl
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: CALIBER COLLISION CENTER
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 597-2203,

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401,

Affiliation Type Desc: Identification Signer
Entity Name: Rudy Navarrete
Entity Title: Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

CALIBER COLLISION CENTERS - CHINO VALLEY (Continued) **S108200173**

Affiliation Type Desc:	Legal Owner
Entity Name:	Caliber Bodyworks LLC
Entity Title:	Not reported
Affiliation Address:	2941 Lake Vista Drive
Affiliation City:	LEWISVILLE
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	75067
Affiliation Phone:	(469) 948-9500,

Affiliation Type Desc:	Environmental Contact
Entity Name:	Khurram Kazmi
Entity Title:	Not reported
Affiliation Address:	7871 Cherry Ave
Affiliation City:	Fontana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92336
Affiliation Phone:	,

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	14622 RAMONA AVE
Affiliation City:	CHINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91710
Affiliation Phone:	,

Affiliation Type Desc:	Parent Corporation
Entity Name:	Caliber Bodyworks, Inc. dba Caliber Collision Centers
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Property Owner
Entity Name:	Donald R. and Ann F. Long (Attn: Ann)
Entity Title:	Not reported
Affiliation Address:	1460 W. Chase Drive
Affiliation City:	Corona
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92882
Affiliation Phone:	(951) 316-0952,

50
NNE
1/8-1/4
0.225 mi.
1188 ft.

TECH SYSTEMS GROUP INC
4451 EUCALYPTUS AVE
CHINO, CA 91710

RCRA NonGen / NLR **1001111669**
HWTS **CAR000012070**
HAZNET

Relative:
Higher

Actual:
637 ft.

RCRA Listings:

Date Form Received by Agency:	19971020
Handler Name:	Tech Systems Group Inc
Handler Address:	4451 Eucalyptus Ave
Handler City,State,Zip:	CHINO, CA 91710
EPA ID:	CAR000012070
Contact Name:	VIVIAN M MARTIN
Contact Address:	1875 W MISSSION BLVD
Contact City,State,Zip:	POMONA, CA 91766
Contact Telephone:	909-622-0466
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	4451 EUCALYPTUS AVE
Mailing City,State,Zip:	CHINO, CA 91710
Owner Name:	Tech Systems Group Inc
Owner Type:	Private
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

TECH SYSTEMS GROUP INC (Continued) **1001111669**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: TECH SYSTEMS GROUP INC	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4451 EUCALYPTUS AVE
Owner/Operator City,State,Zip:	CHINO, CA 91710
Owner/Operator Telephone:	909-393-4425
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19960506
Handler Name: TECH SYSTEMS GROUP INC	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19971020
Handler Name: TECH SYSTEMS GROUP INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

TECH SYSTEMS GROUP INC (Continued) **1001111669**

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

HWTS:

Name:	TECH SYSTEMS GROUP INC
Address:	4451 EUCALYPTUS AVE
Address 2:	Not reported
City,State,Zip:	CHINO, CA 91710
EPA ID:	CAR000012070
Inactive Date:	06/30/2000
Create Date:	06/20/1996
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	1875 W MISSION BLVD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	POMONA, CA 917660000
Owner Name:	TECH SYSTEMS GROUP INC
Owner Address:	RICHARD MERULELO
Owner Address 2:	Not reported
Owner City,State,Zip:	WHITTIER, CA 906050000
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	ANTHONY VELARDI
Contact Address:	INACTIVE PER VQ00 - BMI
Contact Address 2:	Not reported
City,State,Zip:	ARTESIA, CA 907010000
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	FEDERAL
Latitude:	33.989728
Longitude:	-117.707477

HAZNET:

Name:	TECH SYSTEMS GROUP INC
Address:	4451 EUCALYPTUS AVE
Address 2:	Not reported
City,State,Zip:	CHINO, CA 917100000
Contact:	ANTHONY VELARDI
Telephone:	3108603585
Mailing Name:	Not reported
Mailing Address:	1875 W MISSION BLVD
Year:	1999
Gepaid:	CAR000012070
TSD EPA ID:	CAD982444481
CA Waste Code:	352 - Other organic solids

TECH SYSTEMS GROUP INC (Continued) **1001111669**

Disposal Method:	H01 - Transfer Station
Tons:	33.712
Year:	1998
Gepaid:	CAR000012070
TSD EPA ID:	CAD982444481
CA Waste Code:	352 - Other organic solids
Disposal Method:	H01 - Transfer Station
Tons:	67.424
Year:	1997
Gepaid:	CAR000012070
TSD EPA ID:	CAD982444481
CA Waste Code:	513 - Empty containers less than 30 gallons
Disposal Method:	R01 - Recycler
Tons:	34.212
Year:	1997
Gepaid:	CAR000012070
TSD EPA ID:	CAD982444481
CA Waste Code:	513 - Empty containers less than 30 gallons
Disposal Method:	-
Tons:	0.6
Year:	1997
Gepaid:	CAR000012070
TSD EPA ID:	CAD008252405
CA Waste Code:	352 - Other organic solids
Disposal Method:	R01 - Recycler
Tons:	0.2
Year:	1997
Gepaid:	CAR000012070
TSD EPA ID:	CAD008252405
CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	R01 - Recycler
Tons:	0.175
Year:	1997
Gepaid:	CAR000012070
TSD EPA ID:	CAD008252405
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	R01 - Recycler
Tons:	1.44
Year:	1997
Gepaid:	CAR000012070
TSD EPA ID:	CAD982444481
CA Waste Code:	352 - Other organic solids
Disposal Method:	R01 - Recycler
Tons:	2.42
Year:	1997
Gepaid:	CAR000012070
TSD EPA ID:	CAD982444481
CA Waste Code:	352 - Other organic solids
Disposal Method:	-

TECH SYSTEMS GROUP INC (Continued) **1001111669**

Tons: 0.05

Year: 1997
Gepaid: CAR000012070
TSD EPA ID: CAD982444481
CA Waste Code: 352 - Other organic solids
Disposal Method: H01 - Transfer Station
Tons: 0.225

Click this hyperlink while viewing on your computer to access
2 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 1999
Gen EPA ID: CAR000012070

Shipment Date: 19990513
Creation Date: 7/19/1999 0:00:00
Receipt Date: 19990514
Manifest ID: 98716396
Trans EPA ID: CAD982444481
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD982444481
Trans Name: Not reported
TSDF Alt EPA ID: CAD982444481
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H01 - Transfer Station
Quantity Tons: 16.856
Waste Quantity: 20
Quantity Unit: Y
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19990305
Creation Date: 5/17/1999 0:00:00
Receipt Date: 19990308
Manifest ID: 98718935
Trans EPA ID: CAD982444481
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD982444481
Trans Name: Not reported
TSDF Alt EPA ID: CAD982444481
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H01 - Transfer Station
Quantity Tons: 16.856

TECH SYSTEMS GROUP INC (Continued) **1001111669**

Waste Quantity:	20
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1998
Gen EPA ID:	CAR000012070
Shipment Date:	19981019
Creation Date:	12/10/1998 0:00:00
Receipt Date:	19981020
Manifest ID:	98033286
Trans EPA ID:	CAD982444481
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19981016
Creation Date:	12/10/1998 0:00:00
Receipt Date:	19981019
Manifest ID:	98033256
Trans EPA ID:	CAD982444481
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

TECH SYSTEMS GROUP INC (Continued) **1001111669**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980617
Creation Date:	9/3/1998 0:00:00
Receipt Date:	19980618
Manifest ID:	97420676
Trans EPA ID:	CAD982444481
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980327
Creation Date:	5/26/1998 0:00:00
Receipt Date:	19980330
Manifest ID:	97422355
Trans EPA ID:	CAD982444481
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1997
Gen EPA ID:	CAR000012070
Shipment Date:	19971008
Creation Date:	7/23/1998 0:00:00

TECH SYSTEMS GROUP INC (Continued) **1001111669**

Receipt Date:	19971008
Manifest ID:	96695518
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008252405
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19971008
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971008
Manifest ID:	96695518
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008252405
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.18
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19971008
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971008
Manifest ID:	96695518
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008252405

TECH SYSTEMS GROUP INC (Continued) **1001111669**

TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19971008
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971008
Manifest ID:	96695518
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008252405
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	1.26
Waste Quantity:	350
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19971008
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971008
Manifest ID:	96863012
Trans EPA ID:	CAD982444481
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

TECH SYSTEMS GROUP INC (Continued) **1001111669**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19971008
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971008
Manifest ID:	96863014
Trans EPA ID:	CAD982444481
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	513 - Empty containers less than 30 gallons
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	33.712
Waste Quantity:	40
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970610
Creation Date:	12/4/1997 0:00:00
Receipt Date:	19970611
Manifest ID:	96863270
Trans EPA ID:	CAD982444481
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970610
Creation Date:	12/4/1997 0:00:00
Receipt Date:	19970611
Manifest ID:	96863270
Trans EPA ID:	CAD982444481

TECH SYSTEMS GROUP INC (Continued) **1001111669**

Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19970610
Creation Date:	12/4/1997 0:00:00
Receipt Date:	19970611
Manifest ID:	96863270
Trans EPA ID:	CAD982444481
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19970404
Creation Date:	6/26/1997 0:00:00
Receipt Date:	19970410
Manifest ID:	96724781
Trans EPA ID:	CAD982444481
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	513 - Empty containers less than 30 gallons
RCRA Code:	Not reported

TECH SYSTEMS GROUP INC (Continued) **1001111669**

Meth Code:	R01 - Recycler
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1996
Gen EPA ID:	CAR000012070
Shipment Date:	19961126
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961126
Manifest ID:	96318537
Trans EPA ID:	CAD982444481
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	513 - Empty containers less than 30 gallons
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.875
Waste Quantity:	1750
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961126
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961126
Manifest ID:	96318537
Trans EPA ID:	CAD982444481
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.675
Waste Quantity:	1350
Quantity Unit:	P
Additional Code 1:	Not reported

TECH SYSTEMS GROUP INC (Continued) **1001111669**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961009
Creation Date:	5/21/1997 0:00:00
Receipt Date:	19961010
Manifest ID:	96528674
Trans EPA ID:	CAD982444481
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.48
Waste Quantity:	960
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961009
Creation Date:	5/21/1997 0:00:00
Receipt Date:	19961010
Manifest ID:	96528674
Trans EPA ID:	CAD982444481
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	513 - Empty containers less than 30 gallons
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960718
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19960718
Manifest ID:	96295463

TECH SYSTEMS GROUP INC (Continued) **1001111669**

Trans EPA ID:	CAD982444481
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.125
Waste Quantity:	2250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19960718
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19960718
Manifest ID:	96295463
Trans EPA ID:	CAD982444481
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	513 - Empty containers less than 30 gallons
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.5
Waste Quantity:	3000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

E51 **SB CO. CHINO HILLS YARD** **LUST** **S101591160**
WNW **14575 PIPELINE AVENUE** **CPS-SLIC** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709** **BROWNFIELDS**
0.230 mi. **SWEEPS UST**
1215 ft. **Site 1 of 3 in cluster E** **CA FID UST**
Cortese
Relative: **HIST CORTESE**
Higher **CERS**

Actual:
650 ft.

LUST:

Name:	CHINO HILLS YARD
Address:	14575 PIPELINE AVE
City,State,Zip:	CHINO HILLS, CA 91709
Lead Agency:	SAN BERNARDINO COUNTY

SB CO. CHINO HILLS YARD (Continued) **S101591160**

Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100540
Global Id:	T0607100540
Latitude:	33.98678
Longitude:	-117.71411
Status:	Completed - Case Closed
Status Date:	04/03/2002
Case Worker:	CB
RB Case Number:	083603369T
Local Agency:	SAN BERNARDINO COUNTY
File Location:	Local Agency
Local Case Number:	99008
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
EPA Region:	9
Coordinate Source:	Google Geocode
Cuf Case:	NO
Quantity Released Gallons:	Not reported
Begin Date:	12/10/1998
Leak Reported Date:	02/10/1999
How Discovered:	Tank Closure
How Discovered Description:	Not reported
Discharge Source:	Other
Discharge Cause:	Unknown
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	04/03/2002
CA Water Watershed Name:	Santa Ana River - Middle Santa Ana River - Chino (Split) (801.21)
Dwr Groundwater Subbasin Name:	Upper Santa Ana Valley - Chino (8-002.01)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	26-30%
CA Enviroscreen 4 Score:	20-25%
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Site History:	Not reported

LUST:

Global Id:	T0607100540
Contact Type:	Local Agency Caseworker - Primary Caseworker
Contact Name:	CURTIS BRUNDAGE
Organization Name:	SAN BERNARDINO COUNTY
Address:	620 S. E STREET
City:	SAN BERNARDINO
Email:	cbrundage@sbcfire.org
Phone Number:	Not reported

Global Id:	T0607100540
Contact Type:	Regional Board Caseworker
Contact Name:	MIGUEL OVIEDO
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 Main Street, Suite 500
City:	RIVERSIDE
Email:	miguel.oviedo@waterboards.ca.gov
Phone Number:	9517823238

LUST:

SB CO. CHINO HILLS YARD (Continued) **S101591160**

Global Id: T0607100540
Action Type: Other
Date: 02/10/1999
Action: Leak Reported

Global Id: T0607100540
Action Type: Other
Date: 12/10/1998
Action: Leak Stopped

Global Id: T0607100540
Action Type: Other
Date: 12/10/1998
Action: Leak Discovery

LUST:
Global Id: T0607100540
Status: Open - Case Begin Date
Status Date: 12/10/1998

Global Id: T0607100540
Status: Open - Site Assessment
Status Date: 12/10/1998

Global Id: T0607100540
Status: Completed - Case Closed
Status Date: 04/03/2002

LUST REG 8:
Name: CHINO HILLS YARD
Address: 14575 PIPELINE AVE
City: CHINO HILLS
Region: 8
County: San Bernardino
Regional Board: Santa Ana Region
Facility Status: Leak being confirmed
Case Number: 083603369T
Local Case Num: 99008
Case Type: Soil only
Substance: Gasoline
Qty Leaked: Not reported
Abate Method: Not reported
Cross Street: Not reported
Enf Type: Not reported
Funding: Not reported
How Discovered: Tank Closure
How Stopped: Not reported
Leak Cause: UNK
Leak Source: UNK
Global ID: T0607100540
How Stopped Date: 12/10/1998
Enter Date: 3/19/1999
Date Confirmation of Leak Began: 12/10/1998
Date Preliminary Assessment Began: Not reported
Discover Date: 12/10/1998

SB CO. CHINO HILLS YARD (Continued) **S101591160**

Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	3/19/1999
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.988888
Longitude:	-117.7140549
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	TME
Staff Initials:	CB5
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: GWR was submitted Sep. 27, 2000. Wp submitted on Nov. 6, 2000.

CPS-SLIC:

Name:	SB CO. CHINO HILLS YARD
Address:	14575 PIPELINE AVENUE
City,State,Zip:	CHINO HILLS, CA 91709
Region:	STATE
Facility Status:	**Open - Verification Monitoring**
Status Date:	06/15/2022
Global Id:	T10000005917
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Lead Agency Case Number:	Not reported
Latitude:	33.986753
Longitude:	-117.71427
Case Type:	Cleanup Program Site
Case Worker:	GP
Local Agency:	Not reported
RB Case Number:	2080117
File Location:	Regional Board
Potential Media Affected:	Aquifer used for drinking water supply, Other Groundwater (uses other than drinking water), Soil, Soil Vapor
Potential Contaminants of Concern:	Tetrachloroethylene (PCE), Trichloroethylene (TCE)
EPA Region:	9
Coordinate Source:	Not reported
Cuf Case:	NO

SB CO. CHINO HILLS YARD (Continued) **S101591160**

Quantity Released Gallons:	Not reported
Begin Date:	05/15/2014
Leak Reported Date:	Not reported
How Discovered:	Not reported
How Discovered Description:	Not reported
Discharge Source:	Not reported
Discharge Cause:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	Not reported
CA Water Watershed Name:	Santa Ana River - Middle Santa Ana River - Chino (Split) (801.21)
Dwr Groundwater Subbasin Name:	Upper Santa Ana Valley - Chino (8-002.01)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	26-30%
CA Enviroscreen 4 Score:	20-25%
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Site History:	PLACEHOLDER

Click here to access the California GeoTracker records for this facility:

BROWNFIELDS:

Name:	SB CO. CHINO HILLS YARD
Address:	14575 PIPELINE AVENUE
City,State,Zip:	CHINO HILLS, CA 91709
Global ID:	T10000005917
Latitude:	33.986753
Longitude:	-117.71427
Project Type:	Cleanup Program Site
Status:	Open - Verification Monitoring
Status Date:	06/15/2022
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Last Correspondence Date:	06/02/2023
Release Type:	Other Type of Release, Surface Discharge
Contaminant(s) of Concern:	Tetrachloroethylene (PCE), Trichloroethylene (TCE)
Media of Concern:	Aquifer used for drinking water supply, Other Groundwater (uses other than drinking water), Soil, Soil Vapor
Past Use(s) that Caused Contamination:	MAINTENANCE / CLEANING
Human Health Exposure Controlled:	YES
Human Health Exposure Controlled Date:	07/17/2019
Groundwater Migration Controlled:	UNDETERMINED
Groundwater Migration Controlled Date:	07/17/2019
Primary Caseworker Name:	GABBY POCIUS
Primary Caseworker Organization Name:	SANTA ANA RWQCB (REGION 8)
Primary Caseworker Phone Number:	951-394-9477
Primary Caseworker Address:	3737 MAIN STREET, SUITE 500
Primary Caseworker Address:	RIVERSIDE
Primary Caseworker Address:	CA
Primary Caseworker Email:	gabby.pocius@waterboards.ca.gov

SWEEPS UST:

Name:	PARK PROPERTIES
Address:	14575 PIPELINE AVE
City:	CHINO
Status:	Active

SB CO. CHINO HILLS YARD (Continued) **S101591160**

Comp Number: 8727
Number: 5
Board Of Equalization: 44-020107
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: 60
SWRCB Tank Id: 36-000-008727-000001
Tank Status: A
Capacity: 5000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 2

Name: PARK PROPERTIES
Address: 14575 PIPELINE AVE
City: CHINO
Status: Active
Comp Number: 8727
Number: 5
Board Of Equalization: 44-020107
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: 61
SWRCB Tank Id: 36-000-008727-000002
Tank Status: A
Capacity: 5000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 36001985
Regulated By: UTNKA
Regulated ID: 00008727
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 825 E 003RD ST
Mailing Address 2: Not reported
Mailing City,St,Zip: CHINO 91710
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

CORTESE:

SB CO. CHINO HILLS YARD (Continued) **S101591160**

Name:	CHINO HILLS YARD
Address:	14575 PIPELINE AVE
City,State,Zip:	CHINO HILLS, CA 91709
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607100540
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	CHINO HILLS YARD
edr_fadd1:	14575
City,State,Zip:	CHINO HILLS, CA 91709
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083603369T

CERS:

Name:	SB CO. CHINO HILLS YARD
Address:	14575 PIPELINE AVENUE
City,State,Zip:	CHINO HILLS, CA 91709
Site ID:	759509
CERS ID:	T10000005917
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	GABBY POCIUS - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Name:	CHINO HILLS YARD
Address:	14575 PIPELINE AVE
City,State,Zip:	CHINO HILLS, CA 91709

SB CO. CHINO HILLS YARD (Continued) **S101591160**

Site ID: 721486
CERS ID: T0607100540
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: CURTIS BRUNDAGE - SAN BERNARDINO COUNTY
Entity Title: Not reported
Affiliation Address: 620 S. E STREET
Affiliation City: SAN BERNARDINO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker
Entity Name: MIGUEL OVIEDO - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 Main Street, Suite 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517823238,

F52 **CHINO HILLS AUTO CARE, INC.** **CERS HAZ WASTE** **S104764874**
WSW **14688 PIPELINE AVE STE B** **San Bern. Co. Permit** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709** **CERS**
0.232 mi.
1224 ft. **Site 1 of 2 in cluster F**

Relative:
Higher

Actual:
652 ft.

CERS HAZ WASTE:
Name: CHINO HILLS AUTO CARE, INC.
Address: 14688 PIPELINE AVE STE B
City,State,Zip: CHINO HILLS, CA 91709
Site ID: 105148
CERS ID: 10037128
CERS Description: Hazardous Waste Generator

San Bern. Co. Permit:
Name: CHINO HILLS AUTO CARE, INC.
Address: 14688 PIPELINE AVE STE B
City,State,Zip: CHINO HILLS, CA 91709
Region: SAN BERNARDINO
Facility ID: FA0001923
Owner: GALLETTA, PHILIP S.
Permit Number: PT0005931
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 04/30/2024

Name: CHINO HILLS AUTO CARE, INC.
Address: 14688 PIPELINE AVE STE B
City,State,Zip: CHINO HILLS, CA 91709
Region: SAN BERNARDINO
Facility ID: FA0001923
Owner: GALLETTA, PHILIP S.

CHINO HILLS AUTO CARE, INC. (Continued) **S104764874**

Permit Number: PT0005930
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 04/30/2024

CERS:

Name:	CHINO HILLS AUTO CARE, INC.
Address:	14688 PIPELINE AVE STE B
City,State,Zip:	CHINO HILLS, CA 91709
Site ID:	105148
CERS ID:	10037128
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	105148
Site Name:	CHINO HILLS AUTO CARE, INC.
Violation Date:	10-31-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 12/04/2019. OBSERVATION: At the time of the inspection, Federal Hazard Categories had not been updated on the inventory via CERS. CORRECTIVE ACTION: Update the Federal Hazard Categories and submit a signed statement to this Division indicating inventory has been updated.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	105148
Site Name:	CHINO HILLS AUTO CARE, INC.
Violation Date:	11-07-2022
Citation:	Un-Specified
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General Local Ordinance
Violation Notes:	Returned to compliance on 11/21/2022. OBSERVATION: At the time of inspection, observed (1) 55 gallon drum of drained used oil filters and (1) 55 gallon drum of paper filters not listed on the inventory via CERS. CORRECTIVE ACTION: Update that inventory by adding the drained used oil filters and paper filters via CERS. The CERS ID# 10037128.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,

Site ID:	105148
Site Name:	CHINO HILLS AUTO CARE, INC.
Violation Date:	08-31-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 10/06/2016. Facility did not update Business Plan via CERS.

CHINO HILLS AUTO CARE, INC. (Continued) **S104764874**

Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-31-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-31-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-29-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-29-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-31-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-31-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP

CHINO HILLS AUTO CARE, INC. (Continued) **S104764874**

Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-07-2022
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-07-2022
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 105148
Site Name: CHINO HILLS AUTO CARE, INC.
Site Address: 14688 PIPELINE AVE STE B
Site City: CHINO HILLS
Site Zip: 91709
Enf Action Date: 08-31-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Rhonda Galletta
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 14688 PIPELINE AVE, STE B
Affiliation City: CHINO HILLS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91709
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer

CHINO HILLS AUTO CARE, INC. (Continued) **S104764874**

Entity Name:	Rhonda Galletta
Entity Title:	CFO
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	GALLETTA, PHILIP S.
Entity Title:	Not reported
Affiliation Address:	15870 MADELYN CT
Affiliation City:	CHINO HILLS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91709
Affiliation Phone:	(909) 393-8341,
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,
Affiliation Type Desc:	Environmental Contact
Entity Name:	PHILIP GALLETTA
Entity Title:	Not reported
Affiliation Address:	14688 PIPELINE AVE #B
Affiliation City:	CHINO HILLS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91709
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	Chino Hills Auto Care, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 393-3841,
Affiliation Type Desc:	Parent Corporation
Entity Name:	Chino Hills Auto Care, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

CHINO HILLS AUTO CARE, INC. (Continued) **S104764874**

Affiliation Phone: ,

F53 **CHINO HILLS ECONO LUBE N' BRAKES** **San Bern. Co. Permit** **S104765969**
WSW **14688 PIPELINE AVE UNIT A** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709**
0.232 mi.
1224 ft. **Site 2 of 2 in cluster F**

Relative: **Higher**
Actual: **652 ft.**

San Bern. Co. Permit:

Name:	CHINO HILLS ECONO LUBE N' BRAKES
Address:	14688 PIPELINE AVE UNIT A
City,State,Zip:	CHINO HILLS, CA 91709
Region:	SAN BERNARDINO
Facility ID:	FA0002863
Owner:	A & K INC.
Permit Number:	PT0005939
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	INACTIVE
Expiration Date:	10/31/2016

Name:	CHINO HILLS ECONO LUBE N' BRAKES
Address:	14688 PIPELINE AVE UNIT A
City,State,Zip:	CHINO HILLS, CA 91709
Region:	SAN BERNARDINO
Facility ID:	FA0002863
Owner:	A & K INC.
Permit Number:	PT0005935
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	10/31/2016

Name:	CHINO HILLS ECONO LUBE N' BRAKES
Address:	14688 PIPELINE AVE UNIT A
City,State,Zip:	CHINO HILLS, CA 91709
Region:	SAN BERNARDINO
Facility ID:	FA0002863
Owner:	A & K INC.
Permit Number:	PT0026374
Permit Category:	APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status:	INACTIVE
Expiration Date:	10/31/2016

G54 **J & J CLEANERS** **RCRA-SQG** **1000595857**
SW **4183 CHINO HILLS PKWY STE E** **FINDS** **CAD983598145**
1/8-1/4 **CHINO, CA 91708**
0.234 mi.
1236 ft. **Site 1 of 2 in cluster G**

Relative: **Higher**
Actual: **646 ft.**

RCRA Listings:

Date Form Received by Agency:	19911107
Handler Name:	J And J Cleaners
Handler Address:	4183 Chino Hills Pkwy Ste E
Handler City,State,Zip:	CHINO, CA 91708
EPA ID:	CAD983598145
Contact Name:	YOUNG KIM

J & J CLEANERS (Continued) **1000595857**

Contact Address:	4183 CHINO HILLS PKWY STE E
Contact City,State,Zip:	CHINO, CA 91709
Contact Telephone:	714-597-8544
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ca
State District:	4R
Mailing Address:	4183 CHINO HILLS PKWY STE E
Mailing City,State,Zip:	CHINO, CA 91708
Owner Name:	Kim Young H
Owner Type:	Private
Operator Name:	Not Required
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No

J & J CLEANERS (Continued) **1000595857**

Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: Not reported
Manifest Broker: Not reported
Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: NOT REQUIRED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: KIM YOUNG H
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4183 CHINO HILLS PKW
Owner/Operator City,State,Zip: CHINO HILLS, CA 91709
Owner/Operator Telephone: 714-597-8544
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19911107
Handler Name: J AND J CLEANERS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Ca
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

J & J CLEANERS (Continued) **1000595857**

FINDS:
Registry ID: 110006481789

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The California Environmental Protection Agency (CalEPA) has recently implemented a new data warehouse system (nSite). This data warehouse combines and merges facility and site information from five different systems managed within CalEPA. The five systems are: California Environmental Reporting System (CERS),EnviroStor, GeoTracker, California Integrated Water Quality System (CIWQS), andToxic Release Inventory (TRI).
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

G55 **THE HOME DEPOT STORE #2304** **CERS HAZ WASTE** **S123522014**
SW **3500 MARKET PL** **CERS** **N/A**
1/8-1/4 **MONTEREY PARK, CA 91755**
0.239 mi.
1260 ft. **Site 2 of 2 in cluster G**

Relative:
Higher

Actual:
646 ft.

CERS HAZ WASTE:
Name: THE HOME DEPOT STORE #2304
Address: 3500 MARKET PL
City,State,Zip: MONTEREY PARK, CA 91755
Site ID: 442846
CERS ID: 10771621
CERS Description: Hazardous Waste Generator

CERS:
Name: THE HOME DEPOT STORE #2304
Address: 3500 MARKET PL
City,State,Zip: MONTEREY PARK, CA 91755
Site ID: 442846
CERS ID: 10771621
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 442846
Site Name: The Home Depot Store #2304
Violation Date: 08-22-2018
Citation: HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description: Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 01/04/2019. OBSERVATION: Owner/Operator failed to establish and implement a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet. Observed the following hazardous materials on site at the time of the inspection: - 555 gallons of

THE HOME DEPOT STORE #2304 (Continued) **S123522014**

diesel fuel (in the generator located in the back of the facility) - 3 x ~55 gallon drum containers of Non-RCRA hazardous waste liquids (water based, latex) CORRECTIVE ACTION: Establish and implement a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.

Violation Division: Los Angeles County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-04-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-15-2023
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: David gonzalez, assistant manager.
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-15-2023
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: David Gonzalez, assistant manager.
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-19-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: David Gonzalez - Assistant Manager
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-22-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Rafael Jara, Merchandising Manager
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection

THE HOME DEPOT STORE #2304 (Continued) **S123522014**

Eval Date: 07-19-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: David Gonzalez - Assistant Manager
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-22-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Rafael Jara, Merchandising Manager
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS,

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Los Angeles County Fire
Entity Title: Not reported
Affiliation Address: 5825 Rickenbacker Road
Affiliation City: Commerce
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90040-3027
Affiliation Phone: (323) 890-4000,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 213 Court Street, Suite 700 c/o Compliance Dept.
Affiliation City: Middletown
Affiliation State: CT
Affiliation Country: Not reported
Affiliation Zip: 06457
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: The Home Depot U.S.A., Inc.
Entity Title: Not reported
Affiliation Address: 2455 Paces Ferry Road, C-19
Affiliation City: Atlanta
Affiliation State: GA
Affiliation Country: United States
Affiliation Zip: 30339
Affiliation Phone: (770) 433-8211,

Affiliation Type Desc: Operator
Entity Name: The Home Depot U.S.A., Inc.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (770) 433-8211,

THE HOME DEPOT STORE #2304 (Continued) **S123522014**

Affiliation Type Desc:	Identification Signer
Entity Name:	Bryan Chen, Agent for The Home Depot
Entity Title:	Compliance Specialist
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Document Preparer
Entity Name:	ARCADIS U.S., Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Environmental Contact
Entity Name:	ARCADIS U.S., Inc.
Entity Title:	Not reported
Affiliation Address:	213 Court Street, Suite 700 c/o Compliance Dept.
Affiliation City:	Middletown
Affiliation State:	CT
Affiliation Country:	Not reported
Affiliation Zip:	06457
Affiliation Phone:	,

Affiliation Type Desc:	Parent Corporation
Entity Name:	The Home Depot USA, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

E56 **HHW CHINO HILLS TEMPORARY** **San Bern. Co. Permit** **S119102765**
WNW **14575 PIPELINE AVE** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709**
0.244 mi.
1290 ft. **Site 2 of 3 in cluster E**

Relative:
Higher

Actual:
652 ft.

San Bern. Co. Permit:

Name:	HHW CHINO HILLS TEMPORARY
Address:	14575 PIPELINE AVE
City,State,Zip:	CHINO HILLS, CA 91709
Region:	SAN BERNARDINO
Facility ID:	FA0012073
Owner:	HOUSEHOLD HAZARDOUS WASTE
Permit Number:	PT0021247
Permit Category:	PBR - TEMPORARY FACILITY
Facility Status:	INACTIVE
Expiration Date:	02/28/2010

E57 **CHINO HILLS CITY YARD** **San Bern. Co. Permit** **S119102763**
WNW **14575 PIPELINE AVE** **N/A**
1/8-1/4 **CHINO HILLS, CA 91709**
0.244 mi.
1290 ft. **Site 3 of 3 in cluster E**

Relative:
Higher

Actual:
652 ft.

San Bern. Co. Permit:

Name:	CHINO HILLS CITY YARD
Address:	14575 PIPELINE AVE
City,State,Zip:	CHINO HILLS, CA 91709
Region:	SAN BERNARDINO
Facility ID:	FA0001990
Owner:	CITY OF CHINO HILLS
Permit Number:	PT0004831
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	09/30/2012

Name:	CHINO HILLS CITY YARD
Address:	14575 PIPELINE AVE
City,State,Zip:	CHINO HILLS, CA 91709
Region:	SAN BERNARDINO
Facility ID:	FA0001990
Owner:	CITY OF CHINO HILLS
Permit Number:	PT0004830
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	09/30/2012

H58 **ARCO #5656** **UST FINDER RELEASE** **1028918760**
WSW **4123 CHINO HILLS PARKWAY** **N/A**
1/4-1/2 **CHINO HILLS, CA 91710**
0.297 mi.
1567 ft. **Site 1 of 4 in cluster H**

Relative:
Higher

Actual:
653 ft.

UST FINDER RELEASE:

Object ID:	69121
Facility ID:	Not reported
Lust ID:	CAT060712922
Name:	ARCO #5656
Address:	4123 CHINO HILLS PARKWAY
City,State,Zip:	CHINO HILLS, CA 91710
Address Match Type:	PointAddress
Reported Date:	Not reported
Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	1589
Domestic Wells within 1500ft:	2
Land Use:	Developed, Medium Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Within 100yr Floodplain:	No

ARCO #5656 (Continued) **1028918760**

Tribe:	Not reported
EPA Region:	9
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	Geocode
X Coord:	-117.71469
Y Coord:	33.98254
Latitude:	33.98254
Longitude:	-117.71469

H59 **ARCO #5656** **LUST** **S105960705**
WSW **4123 CHINO HILLS PARKWAY** **CHMIRS** **N/A**
1/4-1/2 **CHINO HILLS, CA 91710** **Cortese**
0.297 mi. **HWTS**
1567 ft. **Site 2 of 4 in cluster H** **HAZNET**
CERS

Relative:
Higher

Actual:
653 ft.

LUST:

Name:	ARCO #5656
Address:	4123 CHINO HILLS PARKWAY
City,State,Zip:	CHINO HILLS, CA 91710
Lead Agency:	SAN BERNARDINO COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T060712922
Global Id:	T060712922
Latitude:	33.9822552920384
Longitude:	-117.714790999889
Status:	Completed - Case Closed
Status Date:	09/15/2003
Case Worker:	JC
RB Case Number:	083603841T
Local Agency:	SAN BERNARDINO COUNTY
File Location:	Local Agency
Local Case Number:	2001013
Potential Media Affect:	Under Investigation
Potential Contaminants of Concern:	Gasoline
EPA Region:	9
Coordinate Source:	Google Map Move
Cuf Case:	YES
Quantity Released Gallons:	Not reported
Begin Date:	03/15/2001
Leak Reported Date:	12/20/2001
How Discovered:	Other Means
How Discovered Description:	Not reported
Discharge Source:	Dispenser
Discharge Cause:	Unknown
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	09/15/2003
CA Water Watershed Name:	Santa Ana River - Middle Santa Ana River - Chino (Split) (801.21)
Dwr Groundwater Subbasin Name:	Upper Santa Ana Valley - Chino (8-002.01)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	66-70%
CA Enviroscreen 4 Score:	50-55%
Military DOD Site:	No

ARCO #5656 (Continued) **S105960705**

Facility Project Subtype: Not reported
RWQCB Region: SANTA ANA RWQCB (REGION 8)
Site History: Not reported

LUST:
Global Id: T060712922
Contact Type: Local Agency Caseworker - Primary Caseworker
Contact Name: JACKSON CRUTSINGER
Organization Name: SAN BERNARDINO COUNTY
Address: 620 SOUTH E STREET
City: SAN BERNARDINO
Email: jcrutsinger@sbcfire.org
Phone Number: Not reported

Global Id: T060712922
Contact Type: Regional Board Caseworker
Contact Name: MAILE SEEGER GEE
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: maile.gee@waterboards.ca.gov
Phone Number: 9517824379

LUST:
Global Id: T060712922
Action Type: Other
Date: 12/20/2001
Action: Leak Reported

Global Id: T060712922
Action Type: ENFORCEMENT
Date: 09/15/2003
Action: Closure/No Further Action Letter

LUST:
Global Id: T060712922
Status: Open - Case Begin Date
Status Date: 03/15/2001

Global Id: T060712922
Status: Open - Site Assessment
Status Date: 03/15/2001

Global Id: T060712922
Status: Open - Site Assessment
Status Date: 12/20/2001

Global Id: T060712922
Status: Completed - Case Closed
Status Date: 09/15/2003

LUST REG 8:
Name: ARCO #5656
Address: 4123 CHINO HILLS PARKWAY
City: CHINO HILLS

ARCO #5656 (Continued) **S105960705**

Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083603841T
Local Case Num:	2001013
Case Type:	Undefined
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	MERRILL AVENUE
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	OM
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	D
Global ID:	T060712922
How Stopped Date:	Not reported
Enter Date:	Not reported
Date Confirmation of Leak Began:	3/15/2001
Date Preliminary Assessment Began:	Not reported
Discover Date:	Not reported
Enforcement Date:	Not reported
Close Date:	9/15/2003
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	12/20/2001
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	=
Soil Qualifies:	=
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.982637
Longitude:	-117.714271
MTBE Date:	9/20/2001
Max MTBE GW:	15
MTBE Concentration:	2
Max MTBE Soil:	6.3
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	Not reported
Staff:	VJJ
Staff Initials:	JC3
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	Haz Mat incident report filed : DISCOVERED DURING STATION DISPENSER/TANK UPGRADE PROJECT : UNKNOWN

ARCO #5656 (Continued) **S105960705**

CHMIRS:

Name:	Not reported
Address:	4123 CHINO HILLS PARKWAY
City,State,Zip:	CHINO HILLS, CA 91709
OES Incident Number:	08-2372
OES notification:	03/27/2008
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Service Station
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	0830
Year:	2008
Agency:	BP Arco
Incident Date:	3/21/2008
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Gasoline
Quantity Released:	6
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0

ARCO #5656 (Continued) **S105960705**

Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	**Historical Report** RP states that a customer pulled hose out of the dispenser and released gasoline onto the ground. The release was contained before entering a storm drain.

CORTESE:

Name:	ARCO #5656
Address:	4123 CHINO HILLS PARKWAY
City,State,Zip:	CHINO HILLS, CA 91710
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T060712922
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HWTS:

Name:	CHINO HILLS ARCO DBA KP ROY ENTERPRISES
Address:	4123 CHINO HILLS PKWY
Address 2:	Not reported
City,State,Zip:	CHINO HILLS, CA 91709
EPA ID:	CAL000342459
Inactive Date:	Not reported
Create Date:	04/21/2009
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	4123 CHINO HILLS PKWY
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CHINO HILLS, CA 917092614

ARCO #5656 (Continued) **S105960705**

Owner Name:	VINOD K ROY
Owner Address:	22633 LENOPE PL
Owner Address 2:	Not reported
Owner City,State,Zip:	CHATSWORTH, CA 913114702
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	VINOD K ROY
Contact Address:	4123 CHINO HILLS PKWY
Contact Address 2:	Not reported
City,State,Zip:	CHINO HILLS, CA 91709
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Active
Facility Type:	PERMANENT
Category:	STATE
Latitude:	33.982472
Longitude:	-117.714651

NAICS:

EPA ID:	CAL000342459
Create Date:	2009-04-21 14:09:13.823
NAICS Code:	44719
NAICS Description:	Other Gasoline Stations
Issued EPA ID Date:	2009-04-21 14:09:13.80700
Inactive Date:	Not reported
Facility Name:	CHINO HILLS ARCO DBA KP ROY ENTERPRISES
Facility Address:	4123 CHINO HILLS PKWY
Facility Address 2:	Not reported
Facility City:	CHINO HILLS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	917092614

HAZNET:

Name:	CHINO HILLS ARCO DBA KP ROY ENTERPRISES
Address:	4123 CHINO HILLS PKWY
Address 2:	Not reported
City,State,Zip:	CHINO HILLS, CA 917092614
Contact:	VINOD K ROY
Telephone:	8182073333
Mailing Name:	Not reported
Mailing Address:	4123 CHINO HILLS PKWY
Year:	2019
Gepaid:	CAL000342459
TSD EPA ID:	CAD028409019
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.05000
Year:	2019
Gepaid:	CAL000342459
TSD EPA ID:	CAD028409019
CA Waste Code:	241 - Tank bottom waste
Disposal Method:	H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or

ARCO #5656 (Continued) **S105960705**

	Without Treatment)
Tons:	0.18765
Year:	2017
Gepaid:	CAL000342459
TSD EPA ID:	CAD028409019
CA Waste Code:	241 - Tank bottom waste
Disposal Method:	H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Tons:	0.14595
Year:	2015
Gepaid:	CAL000342459
TSD EPA ID:	CAD982444481
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.025

Additional Info:

Year:	2017
Gen EPA ID:	CAL000342459
Shipment Date:	20171228
Creation Date:	8/10/2018 18:30:24
Receipt Date:	20180105
Manifest ID:	017651480JJK
Trans EPA ID:	CAR000172874
Trans Name:	ABLE ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	241 - Tank bottom waste 251 Still bottoms with halogenated organics
RCRA Code:	Not reported
Meth Code:	H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Quantity Tons:	0.14595
Waste Quantity:	35
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAL000342459
Shipment Date:	20150220
Creation Date:	5/7/2015 22:15:07
Receipt Date:	20150223

ARCO #5656 (Continued) **S105960705**

Manifest ID:	013864496JJK
Trans EPA ID:	CAR000172460
Trans Name:	ENVIRONMENTAL LOGISTICS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	ARCO #5656
Address:	4123 CHINO HILLS PARKWAY
City,State,Zip:	CHINO HILLS, CA 91710
Site ID:	711303
CERS ID:	T060712922
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	JACKSON CRUTSINGER - SAN BERNARDINO COUNTY
Entity Title:	Not reported
Affiliation Address:	620 SOUTH E STREET
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

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60 **G PAT HATTON** **LUST** **U001568908**
WSW **4080 CARBON CANYON RD** **HIST UST** **N/A**
1/4-1/2 **CHINO, CA 91710** **CERS**
0.313 mi.
1654 ft.

Relative:
Higher

Actual:
656 ft.

LUST:

Name:	ARCO #1923
Address:	4080 CARBON CANYON RD
City,State,Zip:	CHINO, CA 91710
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100009
Global Id:	T0607100009
Latitude:	33.982959
Longitude:	-117.715503

G PAT HATTON (Continued) **U001568908**

Status:	Completed - Case Closed
Status Date:	06/08/1995
Case Worker:	MG
RB Case Number:	083600047T
Local Agency:	SAN BERNARDINO COUNTY
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
EPA Region:	9
Coordinate Source:	Google Map Move
Cuf Case:	YES
Quantity Released Gallons:	Not reported
Begin Date:	12/19/1986
Leak Reported Date:	11/07/1987
How Discovered:	Tank Closure
How Discovered Description:	Not reported
Discharge Source:	Other
Discharge Cause:	Unknown
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	06/08/1995
CA Water Watershed Name:	Santa Ana River - Middle Santa Ana River - Chino (Split) (801.21)
Dwr Groundwater Subbasin Name:	Upper Santa Ana Valley - Chino (8-002.01)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	41-45%
CA Enviroscreen 4 Score:	20-25%
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Site History:	Not reported

LUST:

Global Id:	T0607100009
Contact Type:	Local Agency Caseworker
Contact Name:	CATHERINE RICHARDS
Organization Name:	SAN BERNARDINO COUNTY
Address:	620 SOUTH E STREET
City:	SAN BERNARDINO
Email:	crichards@sbcfire.org
Phone Number:	9093868419

Global Id:	T0607100009
Contact Type:	Regional Board Caseworker - Primary Caseworker
Contact Name:	MAILE SEEGER GEE
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	maile.gee@waterboards.ca.gov
Phone Number:	9517824379

LUST:

Global Id:	T0607100009
Action Type:	ENFORCEMENT
Date:	06/08/1995
Action:	Closure/No Further Action Letter

G PAT HATTON (Continued) **U001568908**

Global Id: T0607100009
Action Type: Other
Date: 12/19/1986
Action: Leak Discovery

Global Id: T0607100009
Action Type: Other
Date: 11/07/1987
Action: Leak Reported

Global Id: T0607100009
Action Type: Other
Date: 12/19/1986
Action: Leak Stopped

LUST:
Global Id: T0607100009
Status: Open - Case Begin Date
Status Date: 12/19/1986

Global Id: T0607100009
Status: Open - Site Assessment
Status Date: 01/21/1987

Global Id: T0607100009
Status: Open - Remediation
Status Date: 05/23/1988

Global Id: T0607100009
Status: Completed - Case Closed
Status Date: 06/08/1995

HIST UST:
Name: G PAT HATTON
Address: 4080 CARBON CANYON RD
City,State,Zip: CHINO, CA 91710
File Number: 00029920
URL: https://documents.geotracker.waterboards.ca.gov/ustpdfs/pdf/00029920.pdf
Region: STATE
Facility ID: 00000026663
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 0000000000
Owner Name: ARCO PETROLEUM PRODUCTS CO.
Owner Address: 515 SOUTH FLOWER STREET
Owner City,St,Zip: LOS ANGELES, CA 90071
Total Tanks: 0005

Tank Num: 001
Container Num: 0000000001
Year Installed: 1971
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: 06

G PAT HATTON (Continued) **U001568908**

Container Construction Thickness: 0000240
Leak Detection: Stock Inventor, 10

Tank Num: 002
Container Num: 0000000002
Year Installed: 1971
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: 0000240
Leak Detection: Stock Inventor, 10

Tank Num: 003
Container Num: 0000000003
Year Installed: 1971
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: 0000167
Leak Detection: Stock Inventor, 10

Tank Num: 004
Container Num: 0000000004
Year Installed: 1971
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: 0000167
Leak Detection: Stock Inventor, 10

Tank Num: 005
Container Num: 0000000005
Year Installed: Not reported
Tank Capacity: 00000250
Tank Used for: PRODUCT
Type of Fuel: WASTE OIL
Container Construction Thickness: 0000093
Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

CERS:
Name: ARCO #1923
Address: 4080 CARBON CANYON RD
City,State,Zip: CHINO, CA 91710
Site ID: 710975
CERS ID: T0607100009
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: CATHERINE RICHARDS - SAN BERNARDINO COUNTY
Entity Title: Not reported
Affiliation Address: 620 SOUTH E STREET
Affiliation City: SAN BERNARDINO
Affiliation State: CA
Affiliation Country: Not reported

G PAT HATTON (Continued) **U001568908**

Affiliation Zip: Not reported
Affiliation Phone: 9093868419,

H61 **ARCO #1923** **UST FINDER RELEASE** **1028918453**
WSW **4080 CHINO HILLS PKWY** **N/A**
1/4-1/2 **CHINO, CA 92709**
0.324 mi.
1710 ft. **Site 3 of 4 in cluster H**

Relative:
Higher

Actual:
656 ft.

UST FINDER RELEASE:

Object ID:	69113
Facility ID:	Not reported
Lust ID:	CAT0607100186
Name:	ARCO #1923
Address:	4080 CHINO HILLS PKWY
City,State,Zip:	CHINO, CA 92709
Address Match Type:	PointAddress
Reported Date:	Not reported
Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	1589
Domestic Wells within 1500ft:	1
Land Use:	Developed, Medium Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	9
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	Geocode
X Coord:	-117.71549
Y Coord:	33.9826400000001
Latitude:	33.98264
Longitude:	-117.71549

H62 **ARCO #1923** **LUST** **S103943707**
SW **4080 CARBON CANYON RD** **Cortese** **N/A**
1/4-1/2 **CHINO, CA 91710**
0.330 mi.
1741 ft. **Site 4 of 4 in cluster H**

Relative: **Higher**

Actual: **656 ft.**

LUST REG 8:

Name:	ARCO #1923
Address:	4080 CARBON CANYON RD
City:	CHINO
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083600047T
Local Case Num:	Not reported
Case Type:	Aquifer affected
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	EDGT
Cross Street:	PIPELINE
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0607100009
How Stopped Date:	12/19/1986
Enter Date:	1/1/1987
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	12/19/1986
Enforcement Date:	Not reported
Close Date:	6/8/1995
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	1/21/1987
Date Remediation Plan Submitted:	5/23/1988
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	1/1/1987
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Yes
Oversite Program:	LUST
Latitude:	34.0173343
Longitude:	-117.6883414
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	VJJ
Staff Initials:	CR2
Lead Agency:	Regional Board

ARCO #1923 (Continued) **S103943707**

Local Agency: 36000L
Hydr Basin #: UPPER SANTA ANA VALL
Beneficial: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: PROPOSING ACTIVATED GRANULAR CARBON TREATMENT SYSTEM WITH DISPOSAL OF TREATED GW INTO THE SEWER.

CORTESE:
Name: ARCO #1923
Address: 4080 CARBON CANYON RD
City,State,Zip: CHINO, CA 91710
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607100009
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

I63 **CHINO HILLS CAR WASH** **LUST** **U004050834**
WNW **14694 PIPELINE AVE** **UST** **N/A**
1/4-1/2 **CHINO HILLS, CA 91709** **Cortese**
0.333 mi. **San Bern. Co. Permit**
1759 ft. **Site 1 of 2 in cluster I** **CERS**

Relative: Higher
Actual: 653 ft.

LUST:
Name: CHINO HILLS CAR WASH
Address: 14694 PIPELINE AVE
City,State,Zip: CHINO HILLS, CA 91710
Lead Agency: SAN BERNARDINO COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607199003
Global Id: T0607199003
Latitude: 33.985807
Longitude: -117.715151
Status: Completed - Case Closed
Status Date: 07/30/2010
Case Worker: JC
RB Case Number: Not reported
Local Agency: SAN BERNARDINO COUNTY
File Location: Local Agency

CHINO HILLS CAR WASH (Continued) **U004050834**

Local Case Number:	2004024
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline, MTBE / TBA / Other Fuel Oxygenates
EPA Region:	9
Coordinate Source:	Manual Entry on Screens
Cuf Case:	NO
Quantity Released Gallons:	Not reported
Begin Date:	03/08/1999
Leak Reported Date:	03/15/1999
How Discovered:	Other Means
How Discovered Description:	Not reported
Discharge Source:	Other
Discharge Cause:	Unknown
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	07/30/2010
CA Water Watershed Name:	Santa Ana River - Middle Santa Ana River - Chino (Split) (801.21)
Dwr Groundwater Subbasin Name:	Upper Santa Ana Valley - Chino (8-002.01)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	41-45%
CA Enviroscreen 4 Score:	20-25%
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Site History:	A site investigation has been completed. A Case Closure Summary was sent to the Regional Board on 6/24/10 for their review.

LUST:

Global Id:	T0607199003
Contact Type:	Local Agency Caseworker - Primary Caseworker
Contact Name:	JACKSON CRUTSINGER
Organization Name:	SAN BERNARDINO COUNTY
Address:	620 SOUTH E STREET
City:	SAN BERNARDINO
Email:	jcrutsinger@sbcfire.org
Phone Number:	Not reported

Global Id:	T0607199003
Contact Type:	Regional Board Caseworker
Contact Name:	MAILE SEEGER GEE
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	maile.gee@waterboards.ca.gov
Phone Number:	9517824379

LUST:

Global Id:	T0607199003
Action Type:	ENFORCEMENT
Date:	02/16/2010
Action:	Staff Letter

Global Id:	T0607199003
Action Type:	Other
Date:	03/15/1999
Action:	Leak Reported

CHINO HILLS CAR WASH (Continued) **U004050834**

Global Id: T0607199003
Action Type: RESPONSE
Date: 08/02/2010
Action: Other Report / Document

Global Id: T0607199003
Action Type: ENFORCEMENT
Date: 03/24/2009
Action: Notice to Comply

Global Id: T0607199003
Action Type: ENFORCEMENT
Date: 07/30/2010
Action: Closure/No Further Action Letter

Global Id: T0607199003
Action Type: Other
Date: 03/08/1999
Action: Leak Discovery

LUST:
Global Id: T0607199003
Status: Open - Case Begin Date
Status Date: 03/08/1999

Global Id: T0607199003
Status: Open
Status Date: 09/28/2004

Global Id: T0607199003
Status: Open - Site Assessment
Status Date: 01/22/2010

Global Id: T0607199003
Status: Completed - Case Closed
Status Date: 07/30/2010

Global Id: T0607199003
Status: Open - Site Assessment
Status Date: 07/30/2010

Name: CHINO HILLS CAR WASH
Address: 14694 PIPELINE AVE
City,State,Zip: CHINO, CA 91710
Lead Agency: SAN BERNARDINO COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607199281
Global Id: T0607199281
Latitude: 33.986811
Longitude: -117.716203
Status: Completed - Case Closed
Status Date: 10/28/2010
Case Worker: Not reported
RB Case Number: 083603660T
Local Agency: Not reported
File Location: Local Agency

CHINO HILLS CAR WASH (Continued) **U004050834**

Local Case Number:	2000002
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
EPA Region:	9
Coordinate Source:	Manual Entry on Screens
Cuf Case:	NO
Quantity Released Gallons:	Not reported
Begin Date:	03/08/1999
Leak Reported Date:	03/15/1999
How Discovered:	Other Means
How Discovered Description:	Not reported
Discharge Source:	Other
Discharge Cause:	Unknown
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	10/28/2010
CA Water Watershed Name:	Santa Ana River - Middle Santa Ana River - Chino (Split) (801.21)
Dwr Groundwater Subbasin Name:	Upper Santa Ana Valley - Chino (8-002.01)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	41-45%
CA Enviroscreen 4 Score:	20-25%
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Site History:	Case closed in 2001. Not to be confused with case #2004024, a more recent release.

LUST:

Global Id:	T0607199281
Action Type:	ENFORCEMENT
Date:	01/17/2001
Action:	Closure/No Further Action Letter

Global Id:	T0607199281
Action Type:	Other
Date:	03/15/1999
Action:	Leak Reported

Global Id:	T0607199281
Action Type:	Other
Date:	03/08/1999
Action:	Leak Stopped

Global Id:	T0607199281
Action Type:	Other
Date:	03/08/1999
Action:	Leak Discovery

LUST:

Global Id:	T0607199281
Status:	Open - Case Begin Date
Status Date:	03/08/1999

Global Id:	T0607199281
Status:	Open - Site Assessment
Status Date:	03/15/1999

CHINO HILLS CAR WASH (Continued) **U004050834**

Global Id: T0607199281
Status: Completed - Case Closed
Status Date: 01/17/2001

Global Id: T0607199281
Status: Completed - Case Closed
Status Date: 01/17/2001

Global Id: T0607199281
Status: Open - Reopen Case
Status Date: 01/17/2001

Global Id: T0607199281
Status: Completed - Case Closed
Status Date: 10/28/2010

UST:
Name: CHINO HILLS CAR WASH
Address: 14694 PIPELINE AVE
City,State,Zip: CHINO HILLS, CA 91709
Facility ID: 92027735
Permitting Agency: SAN BERNARDINO COUNTY
CERSID: Not reported
Latitude: 33.98816
Longitude: -117.714854
Owner type: Not reported
Facility type: Not reported
Num of inuse ust: Not reported
Num of closed ust: Not reported
Num of oos ust: Not reported
Epa region: Not reported
Tribal lands: Not reported
Tank owner name: Not reported
Tank owner mailing address: Not reported
Tank owner mailing city: Not reported
Tank owner mailing zip: Not reported
Tank owner mailing state: Not reported
Tank operator name: Not reported
Tank operator mailing address: Not reported
Tank operator mailing city: Not reported
Tank operator mailing zip: Not reported
Tank operator mailing state: Not reported
Tankidnumber: Not reported
Tank status: Not reported
Tank configuration: Not reported
Tank closure date: Not reported
Tank installation date: Not reported
Tank num of compartments: Not reported
Tank contents: Not reported
Tank capacity gallons: Not reported
Tank type: Not reported
Tank pc construction: Not reported
Tank pwpiping construction: Not reported
Tank piping type: Not reported
Tank piping construction: Not reported
Tank sacrificial anode: Not reported

CHINO HILLS CAR WASH (Continued) **U004050834**

Tank cp impressed current:	Not reported
Tank cp shutoff:	Not reported
Tank alarms:	Not reported
Tank ball float:	Not reported
Tank spill bucket:	Not reported

CORTESE:

Name:	CHINO HILLS CAR WASH
Address:	14694 PIPELINE AVE
City,State,Zip:	CHINO HILLS, CA 91710
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607199003
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

San Bern. Co. Permit:

Name:	CHINO HILLS CAR WASH INC
Address:	14694 PIPELINE AVE
City,State,Zip:	CHINO HILLS, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0014578
Owner:	CHINO HILLS CAR WASH INC
Permit Number:	PT0025459
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status:	INACTIVE
Expiration Date:	11/30/2012

CERS:

Name:	CHINO HILLS CAR WASH
Address:	14694 PIPELINE AVE
City,State,Zip:	CHINO, CA 91710
Site ID:	721485
CERS ID:	T0607199281
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Name:	CHINO HILLS CAR WASH
Address:	14694 PIPELINE AVE
City,State,Zip:	CHINO HILLS, CA 91710
Site ID:	721484

CHINO HILLS CAR WASH (Continued) **U004050834**

CERS ID: T0607199003
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: JACKSON CRUTSINGER - SAN BERNARDINO COUNTY
Entity Title: Not reported
Affiliation Address: 620 SOUTH E STREET
Affiliation City: SAN BERNARDINO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker
Entity Name: MAILE SEEGER GEE - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517824379,

I64 **CHINO HILLS CAR WASH** **UST FINDER RELEASE** **1028935303**
WNW **14694 PIPELINE AVE** **N/A**
1/4-1/2 **CHINO HILLS, CA 91710**
0.333 mi.
1759 ft. **Site 2 of 2 in cluster I**

Relative: **Higher**
Actual: **653 ft.**

UST FINDER RELEASE:
Object ID: 69116
Facility ID: Not reported
Lust ID: CAT0607199003
Name: CHINO HILLS CAR WASH
Address: 14694 PIPELINE AVE
City,State,Zip: CHINO HILLS, CA 91710
Address Match Type: PointAddress
Reported Date: Not reported
Status: No Further Action
Substance: Not reported
Population within 1500ft: 739
Domestic Wells within 1500ft: 0
Land Use: Developed, Medium Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Within 100yr Floodplain: Yes
Tribe: Not reported
EPA Region: 9

CHINO HILLS CAR WASH (Continued) **1028935303**

NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	Geocode
X Coord:	-117.71515
Y Coord:	33.9868200000001
Latitude:	33.98682
Longitude:	-117.715149999999

J65 **CHINO DISTRICT FIRE STATI** **LUST** **S100178852**
NW **4040 EUCALYPTUS** **HIST CORTESE** **N/A**
1/4-1/2 **CHINO, CA 91709** **Notify 65**
0.445 mi. **CERS**
2347 ft. **Site 1 of 3 in cluster J**

Relative: **Higher**
Actual: **653 ft.**

LUST:

Name:	CHINO DISTRICT FIRE STATION #2
Address:	4040 EUCALYPTUS AVE
City,State,Zip:	CHINO, CA 91709
Lead Agency:	SAN BERNARDINO COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100135
Global Id:	T0607100135
Latitude:	33.9898391
Longitude:	-117.7174608
Status:	Completed - Case Closed
Status Date:	01/02/1992
Case Worker:	CR2
RB Case Number:	083601178T
Local Agency:	SAN BERNARDINO COUNTY
File Location:	Local Agency
Local Case Number:	90022
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
EPA Region:	9
Coordinate Source:	Google Geocode
Cuf Case:	YES
Quantity Released Gallons:	Not reported
Begin Date:	08/04/1988
Leak Reported Date:	03/20/1989
How Discovered:	Not reported
How Discovered Description:	Not reported
Discharge Source:	Other
Discharge Cause:	Unknown
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	01/02/1992
CA Water Watershed Name:	Santa Ana River - Middle Santa Ana River - Chino (Split) (801.21)
Dwr Groundwater Subbasin Name:	Upper Santa Ana Valley - Chino (8-002.01)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	Not reported
CA Enviroscreen 4 Score:	Not reported
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Site History:	Not reported

CHINO DISTRICT FIRE STATI (Continued) **S100178852**

LUST:
Global Id: T0607100135
Contact Type: Local Agency Caseworker - Primary Caseworker
Contact Name: CATHERINE RICHARDS
Organization Name: SAN BERNARDINO COUNTY
Address: 620 SOUTH E STREET
City: SAN BERNARDINO
Email: crichards@sbcfire.org
Phone Number: 9093868419

LUST:
Global Id: T0607100135
Action Type: REMEDIATION
Date: 08/01/1991
Action: Excavation

Global Id: T0607100135
Action Type: Other
Date: 01/16/1989
Action: Leak Discovery

Global Id: T0607100135
Action Type: Other
Date: 03/20/1989
Action: Leak Reported

Global Id: T0607100135
Action Type: Other
Date: 01/16/1989
Action: Leak Stopped

LUST:
Global Id: T0607100135
Status: Open - Case Begin Date
Status Date: 08/04/1988

Global Id: T0607100135
Status: Open - Site Assessment
Status Date: 01/16/1989

Global Id: T0607100135
Status: Open - Site Assessment
Status Date: 03/24/1989

Global Id: T0607100135
Status: Open - Remediation
Status Date: 03/19/1990

Global Id: T0607100135
Status: Open - Remediation
Status Date: 08/01/1991

Global Id: T0607100135
Status: Completed - Case Closed
Status Date: 01/02/1992

CHINO DISTRICT FIRE STATI (Continued) **S100178852**

HIST CORTESE:

edr_fname:	CHINO DISTRICT FIRE STATI
edr_fadd1:	4040 EUCALYPTUS
City,State,Zip:	CHINO, CA 91709
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083601178T

NOTIFY 65:

Name:	CHINO FIRE STATION #2
Address:	4040 EUCALYPTUS
City,State,Zip:	CHINO, CA 91709-1935
Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Issue Date:	Not reported
Incident Description:	Not reported
Global ID:	Not reported
Status:	Not reported

CERS:

Name:	CHINO DISTRICT FIRE STATION #2
Address:	4040 EUCALYPTUS AVE
City,State,Zip:	CHINO, CA 91709
Site ID:	721483
CERS ID:	T0607100135
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	CATHERINE RICHARDS - SAN BERNARDINO COUNTY
Entity Title:	Not reported
Affiliation Address:	620 SOUTH E STREET
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9093868419,

J66 **CHINO DISTRICT FIRE STATION #2** **UST FINDER RELEASE** **1028935301**
NW **4040 EUCALYPTUS AVE** **N/A**
1/4-1/2 **CHINO, CA 91709**
0.445 mi.
2347 ft. **Site 2 of 3 in cluster J**

Relative:
Higher

Actual:
653 ft.

UST FINDER RELEASE:

Object ID:	69102
Facility ID:	Not reported
Lust ID:	CAT0607100135
Name:	CHINO DISTRICT FIRE STATION #2
Address:	4040 EUCALYPTUS AVE
City,State,Zip:	CHINO, CA 91709
Address Match Type:	StreetAddress

CHINO DISTRICT FIRE STATION #2 (Continued) **1028935301**

Reported Date:	Not reported
Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	889
Domestic Wells within 1500ft:	0
Land Use:	Developed, Medium Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	9
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	Geocode
X Coord:	-117.71764
Y Coord:	33.9899
Latitude:	33.9898999999999
Longitude:	-117.71764

J67 **CHINO DISTRICT FIRE STATION #2** **LUST** **S101301117**
NW **4040 EUCALYPTUS AVE** **Cortese** **N/A**
1/4-1/2 **CHINO, CA 91709**
0.445 mi.
2347 ft. **Site 3 of 3 in cluster J**

Relative:
Higher

Actual:
653 ft.

LUST REG 8:

Name:	CHINO DISTRICT FIRE STATION #2
Address:	4040 EUCALYPTUS AVE
City:	CHINO
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083601178T
Local Case Num:	90022
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	PIPELINE
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Not reported
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0607100135

CHINO DISTRICT FIRE STATION #2 (Continued) **S101301117**

How Stopped Date:	1/16/1989
Enter Date:	3/24/1989
Date Confirmation of Leak Began:	1/16/1989
Date Preliminary Assessment Began:	Not reported
Discover Date:	1/16/1989
Enforcement Date:	Not reported
Close Date:	1/2/1992
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	3/24/1989
Date Remediation Plan Submitted:	3/19/1990
Date Remedial Action Underway:	8/1/1991
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	3/24/1989
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.9897379
Longitude:	-117.716444
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	RS
Staff Initials:	CR2
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

CORTESE:

Name:	CHINO DISTRICT FIRE STATION #2
Address:	4040 EUCALYPTUS AVE
City,State,Zip:	CHINO, CA 91709
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607100135
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported

CHINO DISTRICT FIRE STATION #2 (Continued) **S101301117**

Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

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68 SSW 1/2-1 0.542 mi. 2863 ft. **ROLLING RIDGE RANCH** **LUST U000026958**
15111 PIPELINE AVE **Notify 65 N/A**
CHINO, CA 91710

Relative: Higher

Actual: 659 ft.

LUST:

Name:	ROLLING RIDGE RANCH
Address:	15111 PIPELINE AVE
City,State,Zip:	CHINO, CA 91710
Lead Agency:	SAN BERNARDINO COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100113
Global Id:	T0607100113
Latitude:	33.9788542
Longitude:	-117.7149467
Status:	Completed - Case Closed
Status Date:	07/23/1990
Case Worker:	CR2
RB Case Number:	083601023T
Local Agency:	SAN BERNARDINO COUNTY
File Location:	Not reported
Local Case Number:	87007
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
EPA Region:	9
Coordinate Source:	* Historical Geocode - Exact Address Match
Cuf Case:	NO
Quantity Released Gallons:	Not reported
Begin Date:	05/25/1989
Leak Reported Date:	08/22/1989
How Discovered:	Tank Closure
How Discovered Description:	Not reported
Discharge Source:	Other
Discharge Cause:	Unknown
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	07/23/1990
CA Water Watershed Name:	Santa Ana River - Middle Santa Ana River - Chino (Split) (801.21)
Dwr Groundwater Subbasin Name:	Upper Santa Ana Valley - Chino (8-002.01)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	66-70%
CA Enviroscreen 4 Score:	50-55%
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Site History:	Not reported

LUST:

Global Id:	T0607100113

ROLLING RIDGE RANCH (Continued) **U000026958**

Contact Type:	Local Agency Caseworker - Primary Caseworker
Contact Name:	CATHERINE RICHARDS
Organization Name:	SAN BERNARDINO COUNTY
Address:	620 SOUTH E STREET
City:	SAN BERNARDINO
Email:	crichards@sbcfire.org
Phone Number:	9093868419

Global Id:	T0607100113
Contact Type:	Regional Board Caseworker
Contact Name:	PATRICIA HANNON
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	patricia.hannon@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0607100113
Action Type:	Other
Date:	05/25/1989
Action:	Leak Discovery

Global Id:	T0607100113
Action Type:	Other
Date:	08/22/1989
Action:	Leak Reported

Global Id:	T0607100113
Action Type:	REMEDIATION
Date:	07/09/2002
Action:	Not reported

Global Id:	T0607100113
Action Type:	ENFORCEMENT
Date:	07/23/1990
Action:	Closure/No Further Action Letter

Global Id:	T0607100113
Action Type:	Other
Date:	05/25/1989
Action:	Leak Stopped

Global Id:	T0607100113
Action Type:	RESPONSE
Date:	08/04/1990
Action:	Unauthorized Release Form

LUST:

Global Id:	T0607100113
Status:	Open - Case Begin Date
Status Date:	05/25/1989

Global Id:	T0607100113
Status:	Open - Site Assessment
Status Date:	08/30/1989

ROLLING RIDGE RANCH (Continued) **U000026958**

Global Id: T0607100113
Status: Completed - Case Closed
Status Date: 07/23/1990

NOTIFY 65:
Name: ROLLING RIDGE RANCH
Address: 15111 PIPELINE
City,State,Zip: CHINO, CA 91709-2635
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported
Global ID: Not reported
Status: Not reported

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69 SE 1/2-1 0.985 mi. 5199 ft. **BIRD FARM ELEMENTARY SCHOOL** **ENVIROSTOR S107735923**
POMONA RINCON ROAD/FAIRWAY BOULEVARD **SCH N/A**
CHINO HILLS, CA 91709

Relative: Lower
Actual: 603 ft.

ENVIROSTOR:
Name: BIRD FARM ELEMENTARY SCHOOL
Address: POMONA RINCON ROAD/FAIRWAY BOULEVARD
City,State,Zip: CHINO HILLS, CA 91709
Facility ID: 36020001
Status: No Further Action
Status Date: 11/28/2001
Site Code: 404157
Site Type: School Investigation
Site Type Detailed: School
Acres: 17.2
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 59
Senate: 32
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.97430
Longitude: -117.6968
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - LIVESTOCK
Potential COC: Selenium DDE Lead Zinc DDT Polychlorinated biphenyls (PCBs DDD Copper and compounds
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL, SURFW
Alias Name: BIRD FARM ELEMENTARY SCHOOL (PROPOSED)

BIRD FARM ELEMENTARY SCHOOL (Continued) **S107735923**

Alias Type: Alternate Name
Alias Name: BIRD FARM ELEMENTARY SCHOOL SITE (PROP)
Alias Type: Alternate Name
Alias Name: CHINO VALLEY UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: CHINO VALLEY USD-BIRD FARM ELEMENTARY
Alias Type: Alternate Name
Alias Name: 404157
Alias Type: Project Code (Site Code)
Alias Name: 36020001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/07/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 11/26/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 11/02/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 11/28/2001
Comments: DTSC approved the PEA Report with a no further action determination.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: BIRD FARM ELEMENTARY SCHOOL
Address: POMONA RINCON ROAD/FAIRWAY BOULEVARD
City,State,Zip: CHINO HILLS, CA 91709
Facility ID: 36020001
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 17.2

BIRD FARM ELEMENTARY SCHOOL (Continued) **S107735923**

National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404157
Assembly:	59
Senate:	32
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	11/28/2001
Restricted Use:	NO
Funding:	School District
Latitude:	33.97430
Longitude:	-117.6968
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - LIVESTOCK
Potential COC:	Selenium, Selenium, DDE, Lead, Zinc, DDT, Polychlorinated biphenyls (PCBs, DDD, Copper and compounds
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL, SURFW
Alias Name:	BIRD FARM ELEMENTARY SCHOOL (PROPOSED)
Alias Type:	Alternate Name
Alias Name:	BIRD FARM ELEMENTARY SCHOOL SITE (PROP)
Alias Type:	Alternate Name
Alias Name:	CHINO VALLEY UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	CHINO VALLEY USD-BIRD FARM ELEMENTARY
Alias Type:	Alternate Name
Alias Name:	404157
Alias Type:	Project Code (Site Code)
Alias Name:	36020001
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	06/07/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	11/26/2001
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	11/02/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report

BIRD FARM ELEMENTARY SCHOOL (Continued) **S107735923**

Completed Date:	11/28/2001
Comments:	DTSC approved the PEA Report with a no further action determination.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Count: 3 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CHINO	S104539383	CHINO HILLS CAR WASH	14694 PIPELINE AVE	91710	LUST, Cortese
CHINO	S106716264	CHINO HILLS CAR WASH	PIPELINE AVE	91710	LUST
CHINO HILLS	S127094019	SHADY VIEW REDEVELOPMENT	SOUTH OF COYOTE STREET AND WRA	91709	ENVIROSTOR, VCP

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 02/29/2024
Date Data Arrived at EDR: 03/01/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 05/01/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 02/29/2024
Date Data Arrived at EDR: 03/01/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 05/01/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 02/29/2024
Date Data Arrived at EDR: 03/01/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 05/01/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/20/2023
Date Data Arrived at EDR: 12/20/2023
Date Made Active in Reports: 01/24/2024
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 03/26/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/29/2024
Date Data Arrived at EDR: 02/01/2024
Date Made Active in Reports: 02/22/2024
Number of Days to Update: 21

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/01/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 01/29/2024
Date Data Arrived at EDR: 02/01/2024
Date Made Active in Reports: 02/22/2024
Number of Days to Update: 21

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/01/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/14/2024
Date Data Arrived at EDR: 02/16/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 48

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2024
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/21/2024
Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/13/2024
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/21/2024
Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/12/2023
Date Data Arrived at EDR: 12/13/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 77

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 01/22/2024
Date Data Arrived at EDR: 01/23/2024
Date Made Active in Reports: 04/08/2024
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/22/2024
Date Data Arrived at EDR: 01/23/2024
Date Made Active in Reports: 04/08/2024
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/06/2024
Date Made Active in Reports: 04/26/2024
Number of Days to Update: 80

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Quarterly

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/04/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/27/2024
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 11/16/2023
Date Data Arrived at EDR: 11/16/2023
Date Made Active in Reports: 02/13/2024
Number of Days to Update: 89

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 85

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Semi-Annually

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 11/28/2023
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 02/27/2024
Number of Days to Update: 89

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/08/2024
Next Scheduled EDR Contact: 06/24/2024
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/17/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/22/2024
Date Data Arrived at EDR: 01/23/2024
Date Made Active in Reports: 04/08/2024
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/18/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 12/13/2023
Date Data Arrived at EDR: 12/13/2023
Date Made Active in Reports: 03/07/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/11/2024
Date Data Arrived at EDR: 03/12/2024
Date Made Active in Reports: 05/10/2024
Number of Days to Update: 59

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/12/2024
Next Scheduled EDR Contact: 06/24/2024
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 04/19/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 11/29/2023
Date Data Arrived at EDR: 11/29/2023
Date Made Active in Reports: 02/23/2024
Number of Days to Update: 86

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 04/04/2024
Date Data Arrived at EDR: 04/05/2024
Date Made Active in Reports: 04/15/2024
Number of Days to Update: 10

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/22/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/15/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/19/2024
Next Scheduled EDR Contact: 08/04/2024
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/21/2024
Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/22/2024
Date Data Arrived at EDR: 01/23/2024
Date Made Active in Reports: 04/08/2024
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 09/28/2023
Date Made Active in Reports: 12/18/2023
Number of Days to Update: 81

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: California Environmental Reporting System Hazardous Waste

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 01/16/2024
Date Data Arrived at EDR: 01/16/2024
Date Made Active in Reports: 04/03/2024
Number of Days to Update: 78

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/16/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/21/2024
Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 02/01/2024
Date Data Arrived at EDR: 02/01/2024
Date Made Active in Reports: 04/24/2024
Number of Days to Update: 83

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 01/16/2024
Date Data Arrived at EDR: 01/16/2024
Date Made Active in Reports: 04/03/2024
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/16/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/26/2024
Date Data Arrived at EDR: 02/27/2024
Date Made Active in Reports: 05/15/2024
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/26/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/29/2024
Date Data Arrived at EDR: 03/01/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 05/01/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 02/26/2024
Date Data Arrived at EDR: 02/27/2024
Date Made Active in Reports: 05/14/2024
Number of Days to Update: 77

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 02/27/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/12/2023
Date Data Arrived at EDR: 12/13/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 77

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/20/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 01/23/2024
Date Made Active in Reports: 04/09/2024
Number of Days to Update: 77

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/16/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/27/2024
Number of Days to Update: 84

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/30/2024
Date Data Arrived at EDR: 02/13/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 51

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/14/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/11/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/04/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 12/11/2023
Date Data Arrived at EDR: 12/13/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/13/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA Watch List

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88
Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 04/29/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73
Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283
Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/14/2024
Next Scheduled EDR Contact: 06/24/2024
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 11/13/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 86
Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/16/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 01/16/2024
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 70
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 02/29/2024
Date Data Arrived at EDR: 03/01/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 26

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 05/01/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2024
Date Data Arrived at EDR: 02/08/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/15/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 05/01/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2023
Date Data Arrived at EDR: 04/04/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 66

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/04/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 03/28/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 01/02/2024
Date Data Arrived at EDR: 01/16/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 57

Source: Nuclear Regulatory Commission
Telephone: 301-415-0717
Last EDR Contact: 04/15/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 11/27/2023
Date Made Active in Reports: 02/22/2024
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 02/23/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 02/23/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 03/25/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/23/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 01/11/2024
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 5

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/28/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/04/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 04/26/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/16/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 02/29/2024
Date Data Arrived at EDR: 03/01/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 05/01/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 01/02/2024
Date Data Arrived at EDR: 01/03/2024
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 1

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 04/04/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/21/2024
Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 01/07/2022
Date Data Arrived at EDR: 02/24/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 82

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/22/2024
Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/22/2024
Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 98

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 02/22/2024
Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 11/28/2023
Date Data Arrived at EDR: 11/29/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 12

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/15/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/03/2023
Date Data Arrived at EDR: 11/08/2023
Date Made Active in Reports: 11/20/2023
Number of Days to Update: 12

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 02/27/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/06/2023
Date Data Arrived at EDR: 09/13/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 89

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/08/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 12/17/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/04/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 02/20/2024
Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/12/2024
Date Data Arrived at EDR: 02/13/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 51

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/14/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 04/22/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 03/29/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/10/2017
Number of Days to Update: 63

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 03/29/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: No Update Planned

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data
The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 01/03/2024
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-564-4700
Last EDR Contact: 04/16/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing
A listing of PFAS sites included in the Envirostor and GeoTracker databases. Locations of potential sources of per - and polyfluoroalkyl substances (PFAS). This does not mean that PFAS has been produced, used, or discharged at these sites.

Date of Government Version: 11/30/2023
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 02/26/2024
Number of Days to Update: 88

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/06/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing
Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 11/30/2023
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 02/23/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CHROME PLATING: Chrome Plating Facilities Listing

This listing represents chrome plating facilities the California State Water Resources Control Board staff identified as possibly being a source of Per- and polyfluoroalkyl substance (PFAS) contamination. Sites and locations were identified by staff with the Division of Water Quality in the California State Water Board. Data was collected from the CA Air Resources Board 2013 and 2018 - Cr VI emission survey, CA Emission Inventory, CA HAZ Waste discharge database and by reviewing storm water permits. Former chrome plating sites are also included that are open site investigation or remediation cases with the Regional Water Quality Control Boards and the Department of Toxic Substances Control.

Date of Government Version: 11/30/2023
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 02/23/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/13/2023
Date Data Arrived at EDR: 12/13/2023
Date Made Active in Reports: 03/07/2024
Number of Days to Update: 85

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 02/14/2024
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 05/08/2024
Number of Days to Update: 77

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

DRYCLEAN VENTURA CO DIST: Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Ventura County Air Pollution Control District.

Date of Government Version: 01/04/2024
Date Data Arrived at EDR: 01/16/2024
Date Made Active in Reports: 02/08/2024
Number of Days to Update: 23

Source: Ventura County Air Pollution Control District
Telephone: 805-645-1421
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN AMADOR: Amador Air District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Amador Air Quality Management District

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77

Source: Amador Air Quality Management District
Telephone: 209-257-0112
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 02/20/2024
Date Data Arrived at EDR: 02/22/2024
Date Made Active in Reports: 05/08/2024
Number of Days to Update: 76

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 02/20/2024
Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: Varies

DRYCLEAN MOJAVE DESERT DIST: Mojave Desert Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Mojave Desert Air Quality Management District.

Date of Government Version: 04/15/2024
Date Data Arrived at EDR: 04/17/2024
Date Made Active in Reports: 04/24/2024
Number of Days to Update: 7
Source: Mojave Desert Air Quality Management District
Telephone: 760-245-1661
Last EDR Contact: 04/16/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN BUTTE CO DIST: Butte County Air Quality Management DistrictDrycleaner Facility Listing
Butte County Air Quality Management DistrictDrycleaner Facility Listing.

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 10/18/2023
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 90
Source: Butte County Air Quality Management District
Telephone: 530-332-9400
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN FEATHER RIVER DIST: Feather River Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Feather River Air Quality Management District.

Date of Government Version: 03/08/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 06/05/2023
Number of Days to Update: 88
Source: Feather River Air Quality Management District
Telephone: 530-634-7659
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN DIEGO CO DIST: San Diego County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Diego County Air Pollution Control District.

Date of Government Version: 03/19/2024
Date Data Arrived at EDR: 03/21/2024
Date Made Active in Reports: 04/12/2024
Number of Days to Update: 22
Source: San Diego County Air Pollution Control District
Telephone: 858-586-2616
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/02/2024
Date Data Arrived at EDR: 04/05/2024
Date Made Active in Reports: 04/15/2024
Number of Days to Update: 10
Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 03/08/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: Annually

DRYCLEAN GRANT: Grant Recipients List
Assembly Bill 998 (AB 998) established the Non-Toxic Dry Cleaning Incentive Program to provide financial assistance to the dry cleaning industry to switch from systems using perchloroethylene (Perc), an identified toxic air contaminant and potential human carcinogen, to non-toxic and non-smog forming alternatives.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 01/26/2024
Date Made Active in Reports: 04/16/2024
Number of Days to Update: 81
Source: California Air Resources Board
Telephone: 916-323-0006
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Varies

DRYCLEAN LAKE CO DIST: Lake County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Lake County Air Quality Management District,

Date of Government Version: 02/15/2024
Date Data Arrived at EDR: 02/16/2024
Date Made Active in Reports: 05/02/2024
Number of Days to Update: 76
Source: Lake County Air Quality Management District
Telephone: 707-263-7000
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 02/26/2024
Date Data Arrived at EDR: 02/27/2024
Date Made Active in Reports: 05/15/2024
Number of Days to Update: 78
Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 02/26/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: Varies

DRYCLEAN MENDO CO DIST: Mendocino County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Mendocino County Air Quality Management District.

Date of Government Version: 02/26/2024
Date Data Arrived at EDR: 02/28/2024
Date Made Active in Reports: 05/15/2024
Number of Days to Update: 77
Source: Mendocino County Air Quality Management District
Telephone: 707-463-4354
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN EAST KERN DIST: Eastern Kern Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Eastern Kern Air Pollution Control District.

Date of Government Version: 01/12/2023
Date Data Arrived at EDR: 04/26/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 79
Source: Eastern Kern Air Pollution Control District
Telephone: 661-862-9684
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN IMPERIAL CO DIST: Imperial County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Imperial County Air Pollution Control District

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 04/26/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 79
Source: Imperial County Air Pollution Control District
Telephone: 442-265-1800
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN YOLO-SOLANO DIST: Yolo-Solano Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Yolo-Solano Air Quality Management District.

Date of Government Version: 01/04/2024
Date Data Arrived at EDR: 01/05/2024
Date Made Active in Reports: 03/20/2024
Number of Days to Update: 75
Source: Yolo-Solano Air Quality Management District
Telephone: 530-757-3650
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SHASTA CO DIST: Shasta County Air Quality Management District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Shasta County Air Quality Management District.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 78
Source: Shasta County Air Quality Management District
Telephone: 530-225-5674
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MONTEREY BAY DIST: Monterey Bay Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Monterey Bay Air Quality Management District.

Date of Government Version: 01/03/2024
Date Data Arrived at EDR: 01/05/2024
Date Made Active in Reports: 03/20/2024
Number of Days to Update: 75
Source: Monterey Bay Air Quality Management District
Telephone: 831-647-9411
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN LUIS OB CO DIST: San Luis Obispo County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Luis Obispo County Air Pollution Control District.

Date of Government Version: 01/03/2024
Date Data Arrived at EDR: 01/04/2024
Date Made Active in Reports: 03/20/2024
Number of Days to Update: 76
Source: San Luis Obispo County Air Pollution Control District
Telephone: 805-781-5756
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN PLACER CO DIST: Placer County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Placer County Air Quality Management District.

Date of Government Version: 05/15/2023
Date Data Arrived at EDR: 05/17/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 89
Source: Placer County Air Quality Management District
Telephone: 530-745-2335
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN JOAQ VAL DIST: San Joaquin Valley Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Joaquin Valley Air Pollution Control District.

Date of Government Version: 01/04/2024
Date Data Arrived at EDR: 01/04/2024
Date Made Active in Reports: 03/21/2024
Number of Days to Update: 77
Source: San Joaquin Valley Air Pollution Control District
Telephone: 559-230-6001
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN BAY AREA DIST: Bay Area Air Quality Management District Drycleaner Facility Listing
Bay Area Air Quality Management District Drycleaner Facility Listing.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 05/30/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1432
Source: Bay Area Air Quality Management District
Telephone: 415-516-1916
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN CALAVERAS CO DIST: Calaveras County Environmental Management Agency Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Calaveras County Environmental Management Agency.

Date of Government Version: 06/17/2019
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1412
Source: Calaveras County Environmental Management Agency
Telephone: 209-754-6399
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

DRYCLEAN NO COAST UNIFIED DIST: North Coast Unified Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the North Coast Unified Air Quality Management District.

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1473
Source: North Coast Unified Air Quality Management District
Telephone: 707-443-3093
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN NO SIERRA DIST: Northern Sierra Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sierra Air Quality Management District,

Date of Government Version: 05/07/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1455
Source: Northern Sierra Air Quality Management District
Telephone: 530-274-9350
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SANTA BARB CO DIST: Santa Barbara County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Santa Barbara County Air Pollution Control District.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1475
Source: Santa Barbara County Air Pollution Control District
Telephone: 805-961-8867
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN TEHAMA CO DIST: Tehama County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Tehama County Air Pollution Control District.

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/24/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1468
Source: Tehama County Air Pollution Control District
Telephone: 530-527-3717
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN GLENN CO DIST: Glenn County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Glenn County Air Pollution Control District.

Date of Government Version: 01/08/2024
Date Data Arrived at EDR: 01/10/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 77
Source: Glenn County Air Pollution Control District
Telephone: 530-934-6500
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN NO SONOMA CO DIST: Norther Sonoma County County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sonoma County Air Pollution Control District.,

Date of Government Version: 01/05/2024
Date Data Arrived at EDR: 01/10/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 77
Source: Santa Barbara County Air Pollution Control District
Telephone: 707-433-5911
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SACRAMENTO METO DIST: Sacramento Metropolitan Air Quality Management DistrictDrycleaner Facility Listing
A listing of drycleaner facility locations, for the Sacramento Metropolitan Air Quality Management District.

Date of Government Version: 01/03/2024
Date Data Arrived at EDR: 01/10/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 77
Source: Sacramento Metropolitan Air Quality Management District
Telephone: 916-874-3958
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 06/09/2023
Date Made Active in Reports: 08/30/2023
Number of Days to Update: 82
Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/14/2024
Next Scheduled EDR Contact: 06/24/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 01/16/2024
Date Data Arrived at EDR: 01/16/2024
Date Made Active in Reports: 04/03/2024
Number of Days to Update: 78

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/16/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

FIN ASSURANCE 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 01/11/2024
Date Data Arrived at EDR: 01/16/2024
Date Made Active in Reports: 04/03/2024
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

FIN ASSURANCE 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/07/2024
Date Data Arrived at EDR: 02/28/2024
Date Made Active in Reports: 05/15/2024
Number of Days to Update: 77

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

ICE: Inspection, Compliance and Enforcement

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/07/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 0

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/14/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/07/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 0

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/14/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 01/02/2024
Date Data Arrived at EDR: 01/03/2024
Date Made Active in Reports: 03/21/2024
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/04/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Quarterly

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 01/26/2024
Date Data Arrived at EDR: 01/30/2024
Date Made Active in Reports: 04/17/2024
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 01/03/2024
Date Made Active in Reports: 03/21/2024
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/04/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Annually

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 11/29/2023
Date Data Arrived at EDR: 11/29/2023
Date Made Active in Reports: 02/23/2024
Number of Days to Update: 86

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 01/23/2024
Date Data Arrived at EDR: 02/27/2024
Date Made Active in Reports: 05/16/2024
Number of Days to Update: 79

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 02/27/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/06/2024
Date Made Active in Reports: 04/25/2024
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 11/22/2023
Date Data Arrived at EDR: 11/22/2023
Date Made Active in Reports: 02/16/2024
Number of Days to Update: 86

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 02/27/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 11/29/2023
Date Data Arrived at EDR: 11/29/2023
Date Made Active in Reports: 02/23/2024
Number of Days to Update: 86

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 12/06/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 02/29/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/08/2024
Next Scheduled EDR Contact: 06/24/2024
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Annually

SANTA CRUZ CO SITE MITI: Site Mitigation Listing

Sites may become contaminated with toxic chemicals through illegal dumping or disposal, from leaking underground storage tanks, or through industrial or commercial activities.The goal of the site mitigation program is to protect the public health and the environment while facilitating completion of contaminated site clean-up projects in a timely manner.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 06/23/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 20

Source: Santa Cruz Environmental Health Services
Telephone: 831-454-2761
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 11/29/2023
Date Data Arrived at EDR: 11/29/2023
Date Made Active in Reports: 02/27/2024
Number of Days to Update: 90

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 85

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/04/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/15/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 11/29/2023
Date Data Arrived at EDR: 11/29/2023
Date Made Active in Reports: 02/22/2024
Number of Days to Update: 85
Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 02/26/2024
Date Data Arrived at EDR: 02/27/2024
Date Made Active in Reports: 05/14/2024
Number of Days to Update: 77
Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 02/27/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 01/16/2024
Date Data Arrived at EDR: 01/16/2024
Date Made Active in Reports: 04/03/2024
Number of Days to Update: 78
Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/16/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 85
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 85
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 85
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

UST FINDER: UST Finder Database

EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 106

Source: Environmental Protection Agency
Telephone: 202-564-0394
Last EDR Contact: 05/08/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

UST FINDER RELEASE: UST Finder Releases Database

US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/31/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 79

Source: Environmental Protecton Agency
Telephone: 202-564-0394
Last EDR Contact: 05/08/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Semi-Annually

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites
A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 03/28/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 12/26/2023
Date Data Arrived at EDR: 12/26/2023
Date Made Active in Reports: 03/19/2024
Number of Days to Update: 84

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 03/28/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 04/27/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 03/28/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 12/18/2023
Date Data Arrived at EDR: 12/18/2023
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 86

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/15/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 01/19/2024
Date Data Arrived at EDR: 01/24/2024
Date Made Active in Reports: 04/09/2024
Number of Days to Update: 76

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/19/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/08/2024
Date Made Active in Reports: 04/26/2024
Number of Days to Update: 78

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/19/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/08/2022
Date Data Arrived at EDR: 08/09/2022
Date Made Active in Reports: 09/01/2022
Number of Days to Update: 23

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 04/19/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/28/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/17/2024
Date Data Arrived at EDR: 01/18/2024
Date Made Active in Reports: 04/03/2024
Number of Days to Update: 76

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 10/30/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 04/25/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 05/08/2024
Number of Days to Update: 7

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/08/2024
Date Made Active in Reports: 04/26/2024
Number of Days to Update: 78

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/08/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 03/08/2024
Next Scheduled EDR Contact: 06/24/2024
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 01/16/2024
Date Data Arrived at EDR: 01/18/2024
Date Made Active in Reports: 03/26/2024
Number of Days to Update: 68

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/12/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/09/2024
Date Data Arrived at EDR: 01/10/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 77

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/09/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 01/12/2023
Date Made Active in Reports: 03/29/2023
Number of Days to Update: 76

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/13/2023
Date Data Arrived at EDR: 07/13/2023
Date Made Active in Reports: 09/27/2023
Number of Days to Update: 76

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 04/11/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 12/01/2023
Date Data Arrived at EDR: 12/13/2023
Date Made Active in Reports: 12/14/2023
Number of Days to Update: 1

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 12/01/2023
Date Data Arrived at EDR: 12/13/2023
Date Made Active in Reports: 03/07/2024
Number of Days to Update: 85
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 07/11/2023
Date Data Arrived at EDR: 10/17/2023
Date Made Active in Reports: 01/09/2024
Number of Days to Update: 84
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/18/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65
Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/12/2023
Date Data Arrived at EDR: 05/02/2023
Date Made Active in Reports: 06/13/2023
Number of Days to Update: 42
Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72
Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 03/22/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/20/2024
Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/15/2023
Date Data Arrived at EDR: 11/20/2023
Date Made Active in Reports: 02/15/2024
Number of Days to Update: 87

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/08/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/16/2024
Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 03/22/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Varies

NAPA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/16/2024
Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/16/2024
Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 10/31/2023
Date Data Arrived at EDR: 11/03/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 81

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 04/16/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 10/10/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 10/10/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 10/10/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 02/28/2024
Date Data Arrived at EDR: 02/28/2024
Date Made Active in Reports: 05/16/2024
Number of Days to Update: 78

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 02/26/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 01/04/2024
Date Data Arrived at EDR: 01/04/2024
Date Made Active in Reports: 03/29/2024
Number of Days to Update: 85

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 06/24/2024
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/04/2024
Date Data Arrived at EDR: 01/04/2024
Date Made Active in Reports: 03/21/2024
Number of Days to Update: 77

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/08/2024
Next Scheduled EDR Contact: 06/24/2024
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2022
Date Data Arrived at EDR: 12/21/2022
Date Made Active in Reports: 03/16/2023
Number of Days to Update: 85

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/25/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/07/2022
Date Data Arrived at EDR: 12/09/2022
Date Made Active in Reports: 03/01/2023
Number of Days to Update: 82

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/25/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 01/17/2024
Date Data Arrived at EDR: 01/18/2024
Date Made Active in Reports: 01/26/2024
Number of Days to Update: 8

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 02/13/2024
Date Data Arrived at EDR: 02/14/2024
Date Made Active in Reports: 05/02/2024
Number of Days to Update: 78

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database
The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 11/27/2023
Date Data Arrived at EDR: 11/27/2023
Date Made Active in Reports: 02/16/2024
Number of Days to Update: 81

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 02/27/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2023
Date Data Arrived at EDR: 01/31/2024
Date Made Active in Reports: 04/17/2024
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing
A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 02/23/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 02/01/2024
Date Data Arrived at EDR: 02/01/2024
Date Made Active in Reports: 04/24/2024
Number of Days to Update: 83
Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 02/01/2024
Date Data Arrived at EDR: 02/01/2024
Date Made Active in Reports: 04/24/2024
Number of Days to Update: 83
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Quarterly

SAN FRANCISO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing
a listing of properties that fall within a Maher Ordinance, for all of San Francisco

Date of Government Version: 01/15/2024
Date Data Arrived at EDR: 01/18/2024
Date Made Active in Reports: 04/05/2024
Number of Days to Update: 78
Source: San Francisco Planning
Telephone: 628-652-7483
Last EDR Contact: 04/16/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/08/2024
Next Scheduled EDR Contact: 06/24/2024
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/14/2024
Date Data Arrived at EDR: 02/14/2024
Date Made Active in Reports: 05/02/2024
Number of Days to Update: 78

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/07/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/01/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/21/2024
Date Data Arrived at EDR: 02/22/2024
Date Made Active in Reports: 05/08/2024
Number of Days to Update: 76

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/16/2024
Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: No Update Planned

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/23/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/23/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/15/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/15/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/10/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 08/03/2023
Date Data Arrived at EDR: 08/24/2023
Date Made Active in Reports: 09/12/2023
Number of Days to Update: 19

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 02/26/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 12/05/2023
Date Data Arrived at EDR: 02/01/2024
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 27

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/17/2024
Date Data Arrived at EDR: 01/18/2024
Date Made Active in Reports: 04/03/2024
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 10/07/2022
Date Data Arrived at EDR: 10/07/2022
Date Made Active in Reports: 12/21/2022
Number of Days to Update: 75

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/26/2023
Date Data Arrived at EDR: 01/24/2024
Date Made Active in Reports: 04/08/2024
Number of Days to Update: 75

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/15/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/22/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 12/26/2023
Date Data Arrived at EDR: 01/23/2024
Date Made Active in Reports: 04/09/2024
Number of Days to Update: 77

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/15/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 11/28/2023
Date Data Arrived at EDR: 11/29/2023
Date Made Active in Reports: 02/26/2024
Number of Days to Update: 89
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 12/18/2023
Date Data Arrived at EDR: 12/26/2023
Date Made Active in Reports: 03/19/2024
Number of Days to Update: 84
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/22/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 01/22/2024
Date Data Arrived at EDR: 01/23/2024
Date Made Active in Reports: 04/08/2024
Number of Days to Update: 76
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/19/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/06/2024
Date Made Active in Reports: 04/25/2024
Number of Days to Update: 79
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 03/29/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/08/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/13/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/01/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

CORPORATE CENTER
NOT REPORTED
CHINO, CA 91710

TARGET PROPERTY COORDINATES

Latitude (North):	33.984908 - 33° 59' 5.67''
Longitude (West):	117.709688 - 117° 42' 34.88''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	434448.2
UTM Y (Meters):	3760515.2
Elevation:	637 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	50006194 PRADO DAM, CA
Version Date:	2022
North Map:	50005381 ONTARIO, CA
Version Date:	2021

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

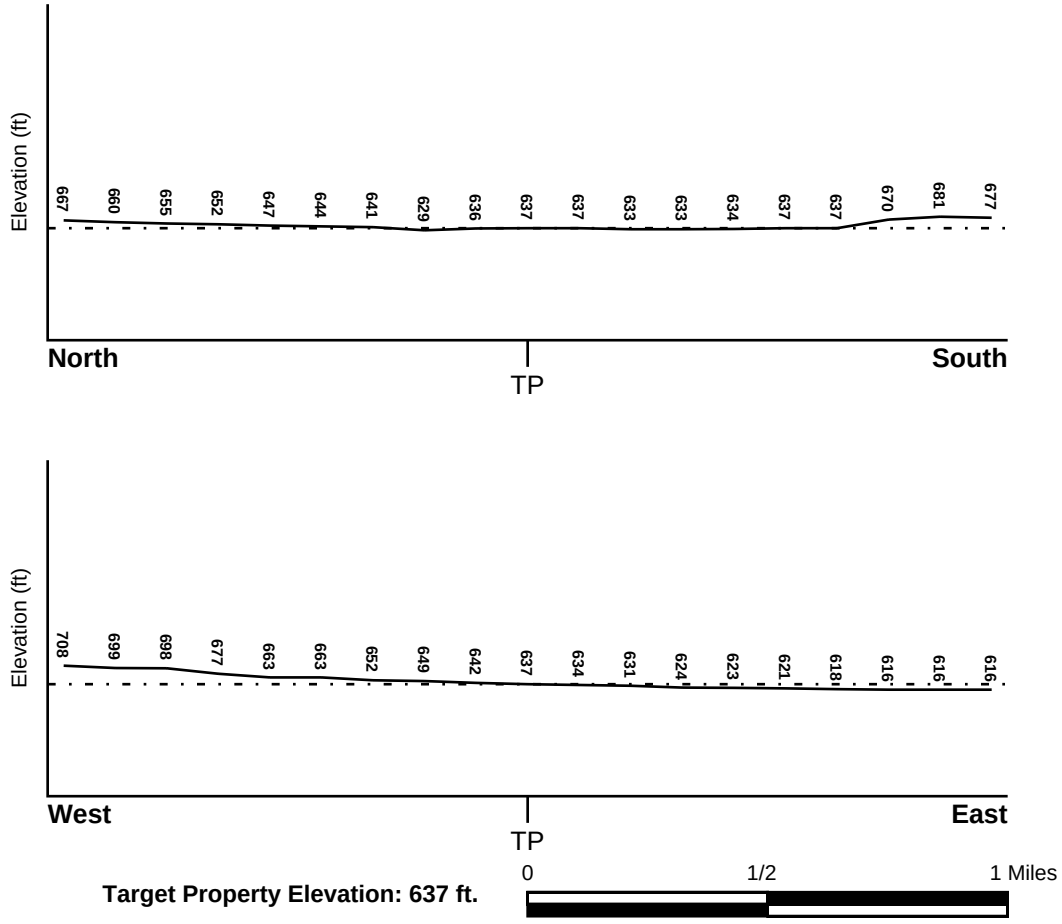
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 637 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06071C9330H	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
Not Reported	

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
PRADO DAM	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

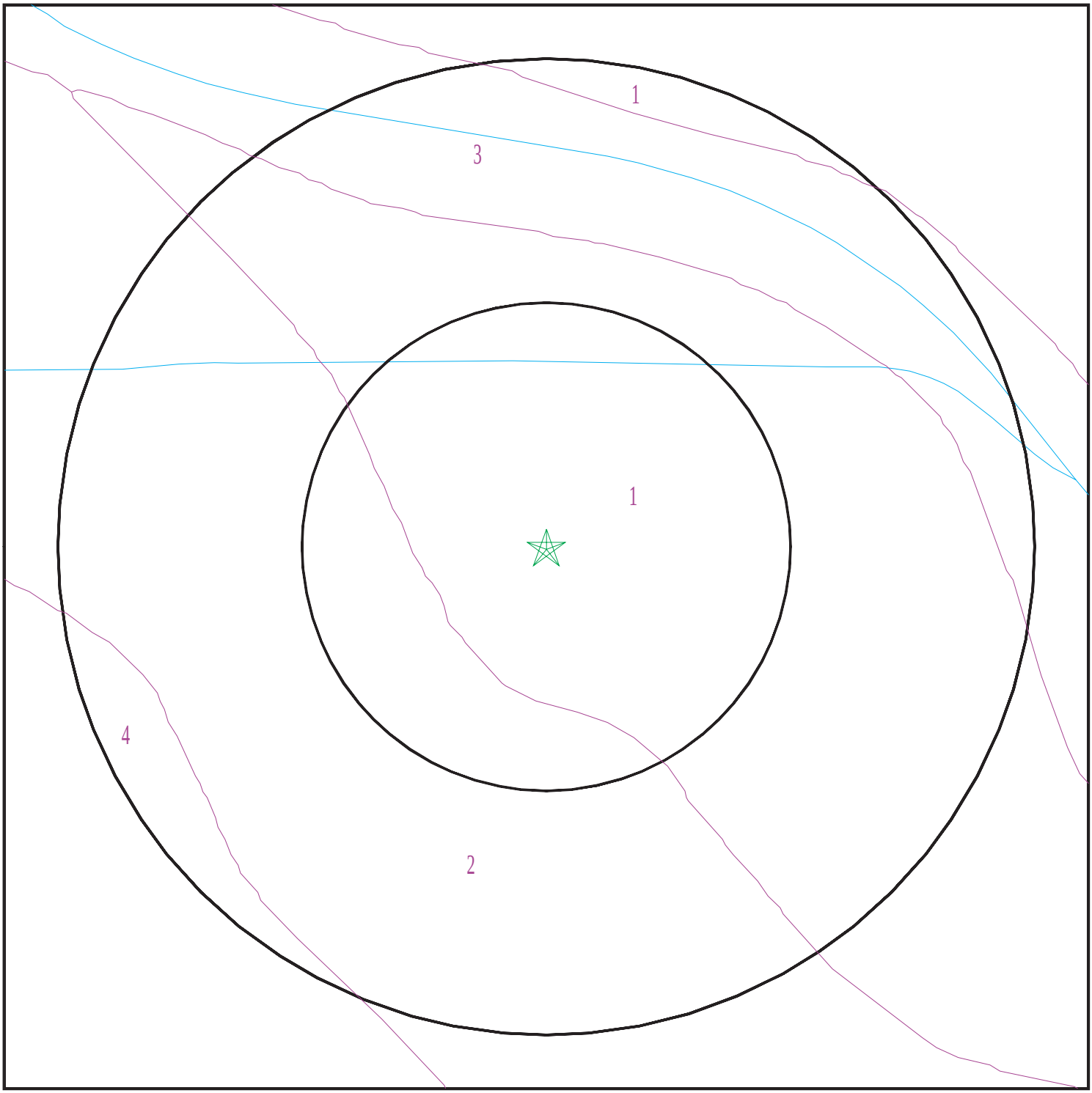
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 07655324.2r



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Corporate Center	CLIENT:	Engeo Inc.
ADDRESS:	Not Reported	CONTACT:	Allie Eggert
	CHINO CA 91710	INQUIRY #:	07655324.2r
LAT/LONG:	33.984908 / 117.709688	DATE:	May 17, 2024 1:13 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: CHINO

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9
2	16 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9

Soil Map ID: 2

Soil Component Name: SORRENTO

Soil Surface Texture: clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	38 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
2	38 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6

Soil Map ID: 3

Soil Component Name: GRANGEVILLE

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6
2	11 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6

Soil Map ID: 4

Soil Component Name: CHUALAR

Soil Surface Texture: clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	11 inches	35 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9
3	35 inches	66 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
12	USGS40000159378	1/4 - 1/2 Mile NW
18	USGS40000159377	1/2 - 1 Mile NE
19	USGS40000159292	1/2 - 1 Mile SE
F24	USGS40000159290	1/2 - 1 Mile ESE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
38	CA3610036	1/2 - 1 Mile South

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CADWR0000034950	0 - 1/8 Mile East
A2	CADDW2000014504	1/8 - 1/4 Mile NW
B3	CAEDF0000070975	1/8 - 1/4 Mile SW
B4	CAEDF0000136152	1/8 - 1/4 Mile SW
B5	CAEDF0000113398	1/8 - 1/4 Mile SW
B6	CAEDF0000049674	1/8 - 1/4 Mile SW
B7	CAEDF0000015734	1/8 - 1/4 Mile SW
A8	2652	1/8 - 1/4 Mile NW
9	CADWR0000012274	1/4 - 1/2 Mile SSW
C10	2654	1/4 - 1/2 Mile SE
C11	CADDW2000001658	1/4 - 1/2 Mile SE
D13	CADWR0000014192	1/4 - 1/2 Mile NE
D14	CADWR0000006263	1/4 - 1/2 Mile NE
D15	2651	1/4 - 1/2 Mile NE
16	CADWR0000026644	1/4 - 1/2 Mile SE
D17	CADDW2000009578	1/4 - 1/2 Mile NE
20	CADWR0000005039	1/2 - 1 Mile NNE
21	CADWR0000009897	1/2 - 1 Mile ESE
E22	3167	1/2 - 1 Mile East
E23	CADDW2000015461	1/2 - 1 Mile East
G25	CADWR0000015858	1/2 - 1 Mile North
G26	CADWR0000007434	1/2 - 1 Mile North
F27	2653	1/2 - 1 Mile SE
F28	CADDW2000000104	1/2 - 1 Mile ESE
H29	CAEDF0000099529	1/2 - 1 Mile NNW
H30	CAEDF0000143355	1/2 - 1 Mile NNW
31	CADWR0000026591	1/2 - 1 Mile NNE
H32	CAEDF0000048323	1/2 - 1 Mile NNW
H33	CAEDF0000142691	1/2 - 1 Mile NNW
H34	CAEDF0000050680	1/2 - 1 Mile NNW
H35	CAEDF0000064358	1/2 - 1 Mile NNW
H36	CAEDF0000142957	1/2 - 1 Mile NNW
H37	CAEDF0000068419	1/2 - 1 Mile NNW
H39	CAEDF0000113399	1/2 - 1 Mile NNW
H40	CAEDF0000000687	1/2 - 1 Mile NNW
41	CADWR0000019475	1/2 - 1 Mile NNW
I42	CADWR0000032534	1/2 - 1 Mile ESE
I43	CADWR0000005049	1/2 - 1 Mile ESE
44	3165	1/2 - 1 Mile SSE
45	CADPR0000002290	1/2 - 1 Mile North
46	CADWR0000007497	1/2 - 1 Mile SE
47	3168	1/2 - 1 Mile ENE

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

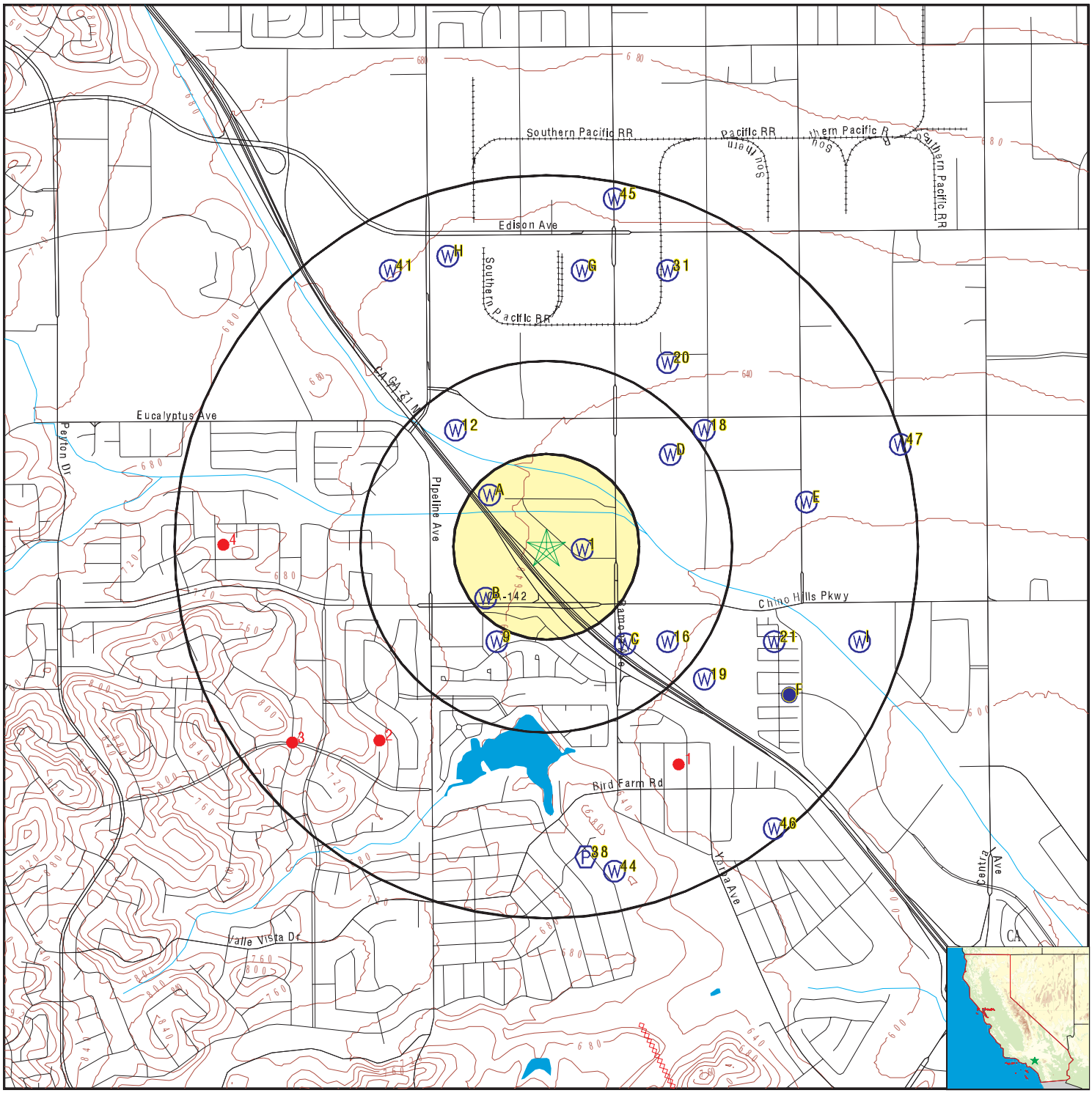
MAP ID	WELL ID	LOCATION FROM TP
1	CAOG17000006947	1/2 - 1 Mile SSE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	CAOG17000006952	1/2 - 1 Mile SW
3	CAOG17000011426	1/2 - 1 Mile SW
4	CAOG17000001645	1/2 - 1 Mile West

PHYSICAL SETTING SOURCE MAP - 07655324.2r



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Corporate Center	CLIENT:	Engeo Inc.
ADDRESS:	Not Reported CHINO CA 91710	CONTACT:	Allie Eggert
		INQUIRY #:	07655324.2r
LAT/LONG:	33.984908 / 117.709688	DATE:	May 17, 2024 1:13 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
East
0 - 1/8 Mile
Lower

CA WELLS **CADWR0000034950**

Well ID:	02S08W22F001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S08W22F001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S08W22F001S&store_num=		
GeoTracker Data:	Not Reported		

A2
NW
1/8 - 1/4 Mile
Higher

CA WELLS **CADDW2000014504**

GAMA:

Well ID:	CA3610036_011_011	Well Type:	MUNICIPAL
Source:	DDW	Other Names:	3610036-011
GAMA Pfas testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=CA3610036_011_011&store_num=		
GeoTracker Data:	Not Reported		

B3
SW
1/8 - 1/4 Mile
Higher

CA WELLS **CAEDF0000070975**

Well ID:	T0607174333-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607174333&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607174333&assigned_name=MW-2		

B4
SW
1/8 - 1/4 Mile
Higher

CA WELLS **CAEDF0000136152**

Well ID:	T0607174333-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607174333&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607174333&assigned_name=MW-5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

B5
SW
1/8 - 1/4 Mile
Higher

CA WELLS **CAEDF0000113398**

Well ID:	T0607174333-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607174333&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607174333&assigned_name=MW-3		

B6
SW
1/8 - 1/4 Mile
Higher

CA WELLS **CAEDF0000049674**

Well ID:	T0607174333-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607174333&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607174333&assigned_name=MW-1		

B7
SW
1/8 - 1/4 Mile
Higher

CA WELLS **CAEDF0000015734**

Well ID:	T0607174333-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607174333&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607174333&assigned_name=MW-4		

A8
NW
1/8 - 1/4 Mile
Higher

CA WELLS **2652**

Seq:	2652	Prim sta c:	02S/08W-22D04 S
Frds no:	3610036011	County:	36
District:	13	User id:	TAN
System no:	3610036	Water type:	G
Source nam:	WELL 09A - IRRIGATION	Station ty:	WELL/AMBNT
Latitude:	335913.0	Longitude:	1174243.0
Precision:	2	Status:	AG
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported

Comment 7:	Not Reported		
System no:	3610036	System nam:	City Of Chino Hills
Hqname:	SB CO WW DISTRICT NO 8	Address:	14575 PIPELINE AVE
City:	CHINO	State:	CA
Zip:	91710	Zip ext:	Not Reported
Pop serv:	49000	Connection:	15197
Area serve:	CHINO VICINITY		

9
SSW **CA WELLS** **CADWR0000012274**
1/4 - 1/2 Mile
Higher

Well ID:	02S08W22M001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S08W22M001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S08W22M001S&store_num=		
GeoTracker Data:	Not Reported		

C10
SE **CA WELLS** **2654**
1/4 - 1/2 Mile
Lower

Seq:	2654	Prim sta c:	02S/08W-22K04 S
Frds no:	3610036005	County:	36
District:	13	User id:	TAN
System no:	3610036	Water type:	G
Source nam:	PELLISSER - IRRIGATION	Station ty:	WELL/AMBNT
Latitude:	335852.0	Longitude:	1174220.0
Precision:	6	Status:	AG
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3610036	System nam:	City Of Chino Hills
Hqname:	SB CO WW DISTRICT NO 8	Address:	14575 PIPELINE AVE
City:	CHINO	State:	CA
Zip:	91710	Zip ext:	Not Reported
Pop serv:	49000	Connection:	15197
Area serve:	CHINO VICINITY		

C11
SE **CA WELLS** **CADDW2000001658**
1/4 - 1/2 Mile
Lower

GAMA:

Well ID:	CA3610036_005_005	Well Type:	MUNICIPAL
Source:	DDW	Other Names:	3610036-005
GAMA Pfas testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=CA3610036_005_005&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

12
NW
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000159378**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S008W22D004S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	198
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

D13
NE
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR0000014192**

Well ID:	02S08W22B004S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S08W22B004S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S08W22B004S&store_num=		
GeoTracker Data:	Not Reported		

D14
NE
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR0000006263**

Well ID:	02S08W22B001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S08W22B001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S08W22B001S&store_num=		
GeoTracker Data:	Not Reported		

D15
NE
1/4 - 1/2 Mile
Lower

CA WELLS **2651**

Seq:	2651	Prim sta c:	02S/08W-22B05 S
Frds no:	3610036008	County:	36
District:	13	User id:	TAN
System no:	3610036	Water type:	G
Source nam:	WELL 02 - INACTIVE	Station ty:	WELL/AMBNT
Latitude:	335919.0	Longitude:	1174212.0
Precision:	2	Status:	IR
Comment 1:	Not Reported	Comment 2:	Not Reported

Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3610036	System nam:	City Of Chino Hills
Hqname:	SB CO WW DISTRICT NO 8	Address:	14575 PIPELINE AVE
City:	CHINO	State:	CA
Zip:	91710	Zip ext:	Not Reported
Pop serv:	49000	Connection:	15197
Area serve:	CHINO VICINITY		

16
SE **CA WELLS** **CADWR0000026644**
1/4 - 1/2 Mile
Lower

Well ID:	02S08W22K001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S08W22K001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S08W22K001S&store_num=		
GeoTracker Data:	Not Reported		

D17
NE **CA WELLS** **CADDW2000009578**
1/4 - 1/2 Mile
Lower

GAMA:

Well ID:	CA3610036_008_008	Well Type:	MUNICIPAL
Source:	DDW	Other Names:	3610036-008
GAMA Pfas testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=CA3610036_008_008&store_num=		
GeoTracker Data:	Not Reported		

18
NE **FED USGS** **USGS40000159377**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S008W22B005S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	552
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

19
SE
1/2 - 1 Mile
Lower

FED USGS **USGS40000159292**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S008W22K004S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	513
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

20
NNE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000005039**

Well ID:	02S08W15Q001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S08W15Q001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S08W15Q001S&store_num=		
GeoTracker Data:	Not Reported		

21
ESE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000009897**

Well ID:	02S08W22J001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S08W22J001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S08W22J001S&store_num=		
GeoTracker Data:	Not Reported		

E22
East
1/2 - 1 Mile
Lower

CA WELLS **3167**

Seq:	3167	Prim sta c:	036/036-014
Frds no:	3610036013	County:	36
District:	13	User id:	TAN
System no:	3610036	Water type:	G
Source nam:	WELL 14	Station ty:	WELL/AMBNT
Latitude:	335911.0	Longitude:	1174148.0
Precision:	2	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported

Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3610036	System nam:	City Of Chino Hills
Hqname:	SB CO WW DISTRICT NO 8	Address:	14575 PIPELINE AVE
City:	CHINO	State:	CA
Zip:	91710	Zip ext:	Not Reported
Pop serv:	49000	Connection:	15197
Area serve:	CHINO VICINITY		

E23
East **CA WELLS** **CADDW2000015461**
1/2 - 1 Mile
Lower

GAMA:

Well ID:	CA3610036_013_013	Well Type:	MUNICIPAL
Source:	DDW	Other Names:	3610036-013
GAMA Pfas testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=CA3610036_013_013&store_num=		
GeoTracker Data:	Not Reported		

F24
ESE **FED USGS** **USGS40000159290**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S008W22J001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	538
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

G25
North **CA WELLS** **CADWR0000015858**
1/2 - 1 Mile
Higher

Well ID:	02S08W15L001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S08W15L001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S08W15L001S&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G26
North
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000007434**

Well ID:	02S08W15L002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S08W15L002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S08W15L002S&store_num=		
GeoTracker Data:	Not Reported		

F27
SE
1/2 - 1 Mile
Lower

CA WELLS **2653**

Seq:	2653	Prim sta c:	02S/08W-22J01 S
Frds no:	3610036012	County:	36
District:	13	User id:	TAN
System no:	3610036	Water type:	G
Source nam:	WELL 13 - INACTIVE	Station ty:	WELL/AMBNT
Latitude:	335843.0	Longitude:	1174152.0
Precision:	2	Status:	IR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3610036	System nam:	City Of Chino Hills
Hqname:	SB CO WW DISTRICT NO 8	Address:	14575 PIPELINE AVE
City:	CHINO	State:	CA
Zip:	91710	Zip ext:	Not Reported
Pop serv:	49000	Connection:	15197
Area serve:	CHINO VICINITY		

F28
ESE
1/2 - 1 Mile
Lower

CA WELLS **CADDW2000000104**

GAMA:

Well ID:	CA3610036_012_012	Well Type:	MUNICIPAL
Source:	DDW	Other Names:	3610036-012
GAMA Pfas testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=CA3610036_012_012&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H29
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000099529**

Well ID:	T0607108510-MW-10	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-10
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607108510&assigned_name=MW-10&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607108510&assigned_name=MW-10		

H30
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000143355**

Well ID:	T0607108510-MW-9	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-9
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607108510&assigned_name=MW-9&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607108510&assigned_name=MW-9		

31
NNE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000026591**

Well ID:	02S08W15K001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S08W15K001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S08W15K001S&store_num=		
GeoTracker Data:	Not Reported		

H32
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000048323**

Well ID:	T0607108510-MW-6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607108510&assigned_name=MW-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607108510&assigned_name=MW-6		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H33
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000142691**

Well ID:	T0607108510-MW-7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607108510&assigned_name=MW-7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607108510&assigned_name=MW-7		

H34
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000050680**

Well ID:	T0607108510-MW-8	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607108510&assigned_name=MW-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607108510&assigned_name=MW-8		

H35
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000064358**

Well ID:	T0607108510-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607108510&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607108510&assigned_name=MW-5		

H36
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000142957**

Well ID:	T0607108510-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607108510&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607108510&assigned_name=MW-4		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H37
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000068419**

Well ID:	T0607108510-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607108510&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607108510&assigned_name=MW-3		

38
South
1/2 - 1 Mile
Higher

FRDS PWS **CA3610036**

Epa region:	09	State:	CA
Pwsid:	CA3610036	Pwsname:	CHINO HILLS, CITY OF
Cityserved:	Not Reported	Stateserved:	CA
Zipserved:	Not Reported	Fipscounty:	06071
Status:	Active	Retpopsrvd:	78971
Pwssvcconn:	21319	Psource longname:	Purch_surface_water
Pwstype:	CWS	Owner:	Local_Govt
Contact:	SETLAK, STEVEN	Contactorgname:	SETLAK, STEVEN
Contactphone:	909-364-2806	Contactaddress1:	14000 Civic Center Dr.
Contactaddress2:	Not Reported	Contactcity:	CHINO HILLS
Contactstate:	CA	Contactzip:	91709
Pwsactivitycode:	A		

Pwsid:	CA3610036	Facid:	4170
Facname:	FAIRFIELD RANCH WELL 05-IX VESSEL EFF-TD		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	inorganics removal	Trtprocess:	ion exchange
Factypecode:	TP		

Pwsid:	CA3610036	Facid:	45120
Facname:	BOOSTER 9 - BLENDING SAMPLING STATION		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	inorganics removal	Trtprocess:	rapid mix
Factypecode:	TP		

Pwsid:	CA3610036	Facid:	45337
Facname:	BROADFOOT WELL 01A - TREATED (CL2)		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		

Pwsid:	CA3610036	Facid:	45338
Facname:	WELL 07A - TREATED (CL2)	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

Pwsid:	CA3610036	Facid:	45339
Facname:	WELL 07B - TREATED (CL2)	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

Pwsid:	CA3610036	Facid:	45342
Facname:	WELL 17 - TREATED (CL2)	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

Pwsid:	CA3610036	Facid:	45343
Facname:	WELL 19 - TREATED (CL2)	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

Pwsid:	CA3610036	Facid:	6104
Facname:	PLANT BLEND (IX TREATED & RAW WATER)		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		

Pwsid:	CA3610036	Facid:	6104
Facname:	PLANT BLEND (IX TREATED & RAW WATER)		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	inorganics removal	Trtprocess:	ion exchange
Factypecode:	TP		

PWS ID:	CA3610036	PWS name:	CITY OF CHINO HILLS
Address:	Not Reported	Care of:	Not Reported
City:	CHINO HILLS	State:	CA
Zip:	91709	Owner:	CITY OF CHINO HILLS
Source code:	Purchases surface water	Population:	49000

PWS ID:	CA3610036	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	CA3610036
Activity status:	Active	Date system activated:	7706
Date system deactivated:	Not Reported	Retail population:	00044000
System name:	CITY OF CHINO HILLS	System address:	Not Reported
System address:	14575 PIPELINE AVE	System city:	CHINO HILLS
System state:	CA	System zip:	91709

County FIPS:	Not Reported	City served:	CHINO VICINITY

County FIPS:	071	City served:	CHINO VICINITY

Population served:	10,001 - 50,000 Persons	Treatment:	Mixed (treated and untreated)

Latitude:	335822	Longitude:	1174225

Violation ID:	Not Reported	Orig Code:	F
Enforcemnt FY:	2000	Enforcement Action:	03/01/2000
Enforcement Detail:	Fed Compliance achieved	Enforcement Category:	Not Reported

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H39
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000113399**

Well ID:	T0607108510-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607108510&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607108510&assigned_name=MW-2		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H40
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000000687**

Well ID:	T0607108510-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607108510&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607108510&assigned_name=MW-1		

41
NNW
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000019475**

Well ID:	02S08W16J001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S08W16J001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S08W16J001S&store_num=		
GeoTracker Data:	Not Reported		

I42
ESE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000032534**

Well ID:	02S08W23M003S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S08W23M003S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S08W23M003S&store_num=		
GeoTracker Data:	Not Reported		

I43
ESE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000005049**

Well ID:	02S08W23M001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S08W23M001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S08W23M001S&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

44
SSE
1/2 - 1 Mile
Higher | **CA WELLS** | **3165**

Seq:	3165	Prim sta c:	036/036-001
Frds no:	3610036001	County:	36
District:	13	User id:	TAN
System no:	3610036	Water type:	G
Source nam:	BROADFOOT WELL 01A	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	335820.0	Longitude:	1174220.0
Precision:	Not Reported	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3610036	System nam:	City Of Chino Hills
Hqname:	SB CO WW DISTRICT NO 8	Address:	14575 PIPELINE AVE
City:	CHINO	State:	CA
Zip:	91710	Zip ext:	Not Reported
Pop serv:	49000	Connection:	15197
Area serve:	CHINO VICINITY		

Sample date:	11-OCT-17	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	11-APR-17	Finding:	8.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	11-APR-17	Finding:	2.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	26-APR-16	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	19-JAN-16	Finding:	0.506
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	19-JAN-16	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	19-JAN-16	Finding:	1.08
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	28-OCT-15	Finding:	0.468
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	28-OCT-15	Finding:	0.253
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	21-OCT-15	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-AUG-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-JUL-15	Finding:	2.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	15-JUL-15	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-JUL-15	Finding:	0.616
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-JUL-15	Finding:	0.2
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-APR-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-APR-15	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-APR-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-APR-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-APR-15	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-APR-15	Finding:	2.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	25-MAR-15	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-MAR-15	Finding:	33.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-MAR-15	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-DEC-14	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	04-DEC-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-NOV-14	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-OCT-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-OCT-14	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-OCT-14	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-SEP-14	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-SEP-14	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-SEP-14	Finding:	320.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	10-SEP-14	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-SEP-14	Finding:	2.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-SEP-14	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-AUG-14	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-AUG-14	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-AUG-14	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-AUG-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	30-JUL-14	Finding:	8.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	30-JUL-14	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-JUL-14	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-JUL-14	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-JUL-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-14	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-JUN-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-JUN-14	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-JUN-14	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-JUN-14	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-MAY-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-MAY-14	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-MAY-14	Finding:	2.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	14-MAY-14	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAY-14	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-MAY-14	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	02-MAY-14	Finding:	2.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	23-APR-14	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-APR-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-APR-14	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-APR-14	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-MAR-14	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-MAR-14	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-MAR-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-FEB-14	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-FEB-14	Finding:	33.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-FEB-14	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-FEB-14	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-JAN-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-JAN-14	Finding:	2.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	23-JAN-14	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	23-JAN-14	Finding:	470.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	23-JAN-14	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	23-JAN-14	Finding:	140.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	23-JAN-14	Finding:	180.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	23-JAN-14	Finding:	190.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	23-JAN-14	Finding:	56.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-JAN-14	Finding:	11.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-JAN-14	Finding:	18.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-JAN-14	Finding:	1.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-JAN-14	Finding:	17.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	23-JAN-14	Finding:	35.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	23-JAN-14	Finding:	0.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	23-JAN-14	Finding:	11.
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	23-JAN-14	Finding:	350.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	23-JAN-14	Finding:	0.44
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	23-JAN-14	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	23-JAN-14	Finding:	12.2
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	23-JAN-14	Finding:	1.51
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-JAN-14	Finding:	1.59
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	20-AUG-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-AUG-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-AUG-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-AUG-13	Finding:	2.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	31-JUL-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-JUL-13	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-JUL-13	Finding:	2.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	17-JUL-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JUL-13	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-JUL-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-JUN-13	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-JUN-13	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	12-JUN-13	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-JUN-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-MAY-13	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-MAY-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-MAY-13	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-MAY-13	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-MAY-13	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-APR-13	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-APR-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-APR-13	Finding:	4.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	10-APR-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-APR-13	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-MAR-13	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-MAR-13	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-MAR-13	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-MAR-13	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	27-FEB-13	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-FEB-13	Finding:	2.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	20-FEB-13	Finding:	2.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	20-FEB-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-FEB-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-FEB-13	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-JAN-13	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-JAN-13	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-JAN-13	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-JAN-13	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-JAN-13	Finding:	3.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-JAN-13	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-DEC-12	Finding:	3.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	27-DEC-12	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-DEC-12	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	12-DEC-12	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-OCT-12	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-OCT-12	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-OCT-12	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-OCT-12	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-SEP-12	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-SEP-12	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-SEP-12	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-SEP-12	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-AUG-12	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-AUG-12	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-AUG-12	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-AUG-12	Finding:	320.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-AUG-12	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-JUL-12	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	18-JUL-12	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JUL-12	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-JUL-12	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-JUN-12	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-JUN-12	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-JUN-12	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-JUN-12	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-MAY-12	Finding:	2.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	29-MAY-12	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-MAY-12	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-MAY-12	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-APR-12	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-JAN-12	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

45
North
1/2 - 1 Mile
Higher

CA WELLS **CADPR0000002290**

Well ID:	78655	Well Type:	UNK
Source:	Department of Pesticide Regulation		

Other Name:	78655	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=78655&store_num=		
GeoTracker Data:	Not Reported		

46
SE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000007497**

Well ID:	02S08W27A001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S08W27A001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S08W27A001S&store_num=		
GeoTracker Data:	Not Reported		

47
ENE
1/2 - 1 Mile
Lower

CA WELLS **3168**

Seq:	3168	Prim sta c:	036/036-015
Frds no:	3610036014	County:	36
District:	13	User id:	TAN
System no:	3610036	Water type:	G
Source nam:	WELL 15	Station ty:	WELL/AMBNT
Latitude:	335920.0	Longitude:	1174132.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3610036	System nam:	City Of Chino Hills
Hqname:	SB CO WW DISTRICT NO 8	Address:	14575 PIPELINE AVE
City:	CHINO	State:	CA
Zip:	91710	Zip ext:	Not Reported
Pop serv:	49000	Connection:	15197
Area serve:	CHINO VICINITY		

Sample date:	03-MAR-16	Finding:	0.265
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	03-MAR-16	Finding:	0.616
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	03-MAR-16	Finding:	1.16
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	03-MAR-16	Finding:	1.21
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	29-JUL-14	Finding:	2.4

Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	29-JUL-14	Finding:	20.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-SEP-13	Finding:	8.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-SEP-13	Finding:	320.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	18-SEP-13	Finding:	78.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	18-SEP-13	Finding:	95.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	18-SEP-13	Finding:	19.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	18-SEP-13	Finding:	7.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-SEP-13	Finding:	61.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-SEP-13	Finding:	18.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	18-SEP-13	Finding:	35.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	18-SEP-13	Finding:	0.8
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	18-SEP-13	Finding:	43.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-SEP-13	Finding:	2.5
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	18-SEP-13	Finding:	230.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	18-SEP-13	Finding:	210.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	14-MAY-13	Finding:	20.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-JUL-12	Finding:	6.5
Chemical:	LEAD	Report units:	UG/L
Dlr:	5.		
Sample date:	18-JUL-12	Finding:	270.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	18-JUL-12	Finding:	4.7
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	18-JUL-12	Finding:	0.4
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	18-JUL-12	Finding:	41.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	18-JUL-12	Finding:	17.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-12	Finding:	63.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-12	Finding:	16.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-12	Finding:	43.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-12	Finding:	120.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-12	Finding:	95.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-12	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-JUL-12	Finding:	380.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	18-JUL-12	Finding:	3.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	18-JUL-12	Finding:	270.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L

Dlr:	0.		
Sample date:	18-JUL-12	Finding:	1.2
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	18-JUL-12	Finding:	11.8
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-JUL-12	Finding:	0.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-JUL-12	Finding:	79.
Chemical:	COPPER	Report units:	UG/L
Dlr:	50.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
SSE **OIL_GAS** **CAOG17000006947**
1/2 - 1 Mile

OIL_GAS:

API #:	0407100139	Well #:	1
Well Type:	Dry Hole	Well Status:	Plugged
Lease Name:	Lease by Southern Counties Petro. & Drilling.		
Well Design:	1	Operator ID:	07973
Operator Name:	Southern Counties Petro. & Drilling.		
Field Name:	Any Field	Area Name:	Any Area
Place:	Chino Hills	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=07100139		

2
SW **OIL_GAS** **CAOG17000006952**
1/2 - 1 Mile

OIL_GAS:

API #:	0407100087	Well #:	1
Well Type:	Core Hole	Well Status:	Plugged
Lease Name:	Core Hole	Well Design:	Core Hole 1
Operator ID:	08999	Operator Name:	W. Y. Lee
Field Name:	Any Field	Area Name:	Any Area
Place:	Chino Hills	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=07100087		

3
SW **OIL_GAS** **CAOG17000011426**
1/2 - 1 Mile

OIL_GAS:

API #:	0407100086	Well #:	2
Well Type:	Dry Hole	Well Status:	Plugged
Lease Name:	Lease by W. Y. Lee	Well Design:	2
Operator ID:	08999	Operator Name:	W. Y. Lee
Field Name:	Any Field	Area Name:	Any Area
Place:	Chino Hills	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=07100086		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

4
West
1/2 - 1 Mile

OIL_GAS **CAOG17000001645**

OIL_GAS:

API #:	0407100082	Well #:	1
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Vizio	Well Design:	Vizio 1
Operator ID:	05202	Operator Name:	Lamona Oil Association
Field Name:	Any Field	Area Name:	Any Area
Place:	Chino Hills	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	05/10/1927		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=07100082		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91710	14	0

Federal EPA Radon Zone for SAN BERNARDINO County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 91710

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.900 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

Geothermal Wells Listing
Department of Conservation
Telephone: 916-445-9686
Geothermal well means a well constructed to extract or return water to the ground after it has been used for heating or cooling purposes. Geothermal wells in California (except for wells on federal leases which are administered by the Bureau of Land Management) are permitted, drilled, operated, and permanently sealed and closed (plugged and abandoned) under requirements and procedures administered by the Geothermal Section of the Department of Conservations Geologic Energy Management Division (CalGEM, formerly DOGGR).

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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DRAFT

APPENDIX B

FIRST AMERICAN TITLE COMPANY

Preliminary Title Report



First American Title™

First American Title Company

1250 Corona Pointe Court, Suite 200
Corona, CA 92879

Josh Wheeler
B.C.T. Development, INC.
951-2 Old County Road, Suite 118
Belmont, CA 94002

Customer Reference:	Corporate Center, Chino
Order Number:	NHSC-7121642 (RA)
Title Officer:	Ryan Achterberg
Phone:	(949)299-4950
Fax No.:	(714)824-5946
E-Mail:	rachterberg@firstam.com
Buyer:	

PRELIMINARY REPORT

In response to the above referenced application for a policy of title insurance, this company hereby reports that it is prepared to issue, or cause to be issued, as of the date hereof, a Policy or Policies of Title Insurance describing the land and the estate or interest therein hereinafter set forth, insuring against loss which may be sustained by reason of any defect, lien or encumbrance not shown or referred to as an Exception below or not excluded from coverage pursuant to the printed Schedules, Conditions and Stipulations of said Policy forms.

The printed Exceptions and Exclusions from the coverage and Limitations on Covered Risks of said policy or policies are set forth in Exhibit A attached. *The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than that set forth in the arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties*. Limitations on Covered Risks applicable to the CLTA and ALTA Homeowner's Policies of Title Insurance which establish a Deductible Amount and a Maximum Dollar Limit of Liability for certain coverages are also set forth in Exhibit A. Copies of the policy forms should be read. They are available from the office which issued this report.

Please read the exceptions shown or referred to below and the exceptions and exclusions set forth in Exhibit A of this report carefully. The exceptions and exclusions are meant to provide you with notice of matters which are not covered under the terms of the title insurance policy and should be carefully considered.

It is important to note that this preliminary report is not a written representation as to the condition of title and may not list all liens, defects, and encumbrances affecting title to the land.

Please be advised that any provision contained in this document, or in a document that is attached, linked or referenced in this document, that under applicable law illegally discriminates against a class of individuals based upon personal characteristics such as race, color, religion, sex, sexual orientation, gender identity, familial status, disability, national origin, or any other legally protected class, is illegal and unenforceable by law.

This report (and any supplements or amendments hereto) is issued solely for the purpose of facilitating the issuance of a policy of title insurance and no liability is assumed hereby. If it is desired that liability be assumed prior to the issuance of a policy of title insurance, a Binder or Commitment should be requested.

Dated as of April 30, 2024 at 7:30 A.M.

The form of Policy of title insurance contemplated by this report is:

To Be Determined

A specific request should be made if another form or additional coverage is desired.

Title to said estate or interest at the date hereof is vested in:

Is What Is LLC, a California limited liability company

The estate or interest in the land hereinafter described or referred to covered by this Report is:

A fee.

The Land referred to herein is described as follows:

(See attached Legal Description)

At the date hereof exceptions to coverage in addition to the printed Exceptions and Exclusions in said policy form would be as follows:

A. General and special taxes and assessments for the fiscal year 2024-2025, a lien not yet due or payable.

1. General and special taxes and assessments for the fiscal year 2023-2024.

First Installment:	$13,110.34, PAID
Penalty:	$0.00
Second Installment:	$13,110.31, PAID
Penalty:	$0.00
Tax Rate Area:	001020
A. P. No.:	1025-211-29-0-000

2. The lien of supplemental taxes, if any, assessed pursuant to Chapter 3.5 commencing with Section 75 of the California Revenue and Taxation Code.

3. An easement for pipe lines and incidental purposes, recorded May 8, 1899 in Book 268 of Deeds, Page 64.

4. An easement for pipe lines and incidental purposes, recorded April 15, 1959 as Book 4789, Page 595 of Official Records.

5. A waiver of any claims for damages by reason of the location, construction, landscaping or maintenance of a contiguous freeway, highway, roadway or transit facility as contained in the document recorded September 17, 1993 as Instrument No. 93-400327; recorded May 17, 1994 as Instrument No. 94-224370; and recorded July 1, 1994 as Instrument No. 94-292770, all of Official Records.

6. Abutter's rights of ingress and egress to or from State Highway 71 have been relinquished in the document recorded September 17, 1993 as Instrument No. 93-400327; recorded May 17, 1994 as Instrument No. 94-224370; and recorded July 1, 1994 as Instrument No. 94-292770, all of Official Records.

7. An easement shown or dedicated on the map of Parcel Map No. 11804 recorded August 31, 1994 and on file in Book 176, Page(s) 11-13, of Parcel Maps.
For: Landscape and sidewalk and incidental purposes.

8. An easement shown or dedicated on the map of Parcel Map No. 15240 recorded November 6, 1998 and on file in Book 186, Page(s) 16-18, of Parcel Maps.
For: Landscaping and sidewalk and incidental purposes.

9. The fact that the land lies within the boundaries of the Central City Redevelopment Plan and Project Area Number 2 Redevelopment Project Area, as disclosed by the document recorded June 30, 2000 as Instrument No. 20000234638 of Official Records.

10. An easement shown or dedicated on the map of Parcel Map No. 15863 recorded August 25, 2003 and on file in Book 200, Page(s) 13 & 14, of Parcel Maps.
For: Emergency and fire vehicle access and incidental purposes.

11. A document entitled "Notice of Merger" recorded September 04, 2007 as Instrument No. 2007-0508201 of Official Records.

12. A deed of trust to secure an original indebtedness of $1,749,803.00 recorded December 27, 2021 as Instrument No. 2021-0572987 of Official Records.

Dated:	December 20, 2021
Trustor:	Is What Is LLC
Trustee:	Neuse, Incorporated
Beneficiary:	First-Citizens Bank & Trust Company

The terms and provisions contained in the document entitled Assignment of Rents recorded December 27, 2021 as Instrument No. 2021-0572988 of Official Records.

The effect of a document entitled Full Reconveyance, recorded May 31, 2023 as Instrument No. 2023-0130613 of Official Records.

Note: The Company will require satisfactory proof of full payment of the debt secured by said mortgage or deed of trust prior to removing this exception or insuring the contemplated transaction.

13. Water rights, claims or title to water, whether or not shown by the Public Records.

14. Any facts, rights, interests or claims which would be disclosed by a correct ALTA/NSPS survey.

15. Rights of parties in possession.

Prior to the issuance of any policy of title insurance, the Company will require:

16. With respect to Is What Is LLC, a limited liability company:
a. A copy of its operating agreement and any amendments thereto;
b. If it is a California limited liability company, that a certified copy of its articles of organization (LLC-1) and any certificate of correction (LLC-11), certificate of amendment (LLC-2), or restatement of articles of organization (LLC-10) be recorded in the public records;
c. If it is a foreign limited liability company, that a certified copy of its application for registration (LLC-5) be recorded in the public records;
d. With respect to any deed, deed of trust, lease, subordination agreement or other document or instrument executed by such limited liability company and presented for recordation by the Company or upon which the Company is asked to rely, that such document or instrument be executed in accordance with one of the following, as appropriate:
(i) If the limited liability company properly operates through officers appointed or elected pursuant to the terms of a written operating agreement, such document must be executed by at least two duly elected or appointed officers, as follows: the chairman of the board, the president or any vice president, and any secretary, assistant secretary, the chief financial officer or any assistant treasurer;
(ii) If the limited liability company properly operates through a manager or managers identified in the articles of organization and/or duly elected pursuant to the terms of a written operating agreement, such document must be executed by at least two such managers or by one manager if the limited liability company properly operates with the existence of only one manager.
e. Other requirements which the Company may impose following its review of the material required herein and other information which the Company may require.

INFORMATIONAL NOTES

Note: The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than the certain dollar amount set forth in any applicable arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties. If you desire to review the terms of the policy, including any arbitration clause that may be included, contact the office that issued this Commitment or Report to obtain a sample of the policy jacket for the policy that is to be issued in connection with your transaction.

The map attached, if any, may or may not be a survey of the land depicted hereon. First American expressly disclaims any liability for loss or damage which may result from reliance on this map except to the extent coverage for such loss or damage is expressly provided by the terms and provisions of the title insurance policy, if any, to which this map is attached.

LEGAL DESCRIPTION

Real property in the City of Chino, County of San Bernardino, State of California, described as follows:

PARCEL "A" OF CERTIFICATE APPROVING LOT LINE ADJUSTMENT NO. 07-02, IN THE CITY OF CHINO, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, RECORDED SEPTEMBER 4, 2007 AS INSTRUMENT NO. 2007-0508200 OF OFFICIAL RECORDS OF SAID COUNTY, DESCRIBED AS FOLLOWS:

PARCEL 2 OF PARCEL MAP NO. 15863, AS PER MAP RECORDED IN BOOK 200, PAGES 13 AND 14 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, TOGETHER WITH PARCEL 5 OF PARCEL MAP NO. 11804, AS PER MAP RECORDED IN BOOK 176, PAGES 11 TO 13, INCLUSIVE OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

APN: 1025-211-29-0-000

NOTICE

Section 12413.1 of the California Insurance Code, effective January 1, 1990, requires that any title insurance company, underwritten title company, or controlled escrow company handling funds in an escrow or sub-escrow capacity, wait a specified number of days after depositing funds, before recording any documents in connection with the transaction or disbursing funds. This statute allows for funds deposited by wire transfer to be disbursed the same day as deposit. In the case of cashier's checks or certified checks, funds may be disbursed the next day after deposit. In order to avoid unnecessary delays of three to seven days, or more, please use wire transfer, cashier's checks, or certified checks whenever possible.

EXHIBIT A
LIST OF PRINTED EXCEPTIONS AND EXCLUSIONS (BY POLICY TYPE)

CLTA/ALTA HOMEOWNER'S POLICY OF TITLE INSURANCE [(07-01-2021) v. 01.00]
EXCLUSIONS FROM COVERAGE

The following matters are excluded from the coverage of this policy and We will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. a. any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) that restricts, regulates, prohibits, or relates to:
   i. the occupancy, use, or enjoyment of the Land;
   ii. the character, dimensions, or location of any improvement on the Land;
   iii. the subdivision of land; or
   iv. environmental remediation or protection.
   b. any governmental forfeiture, police, or regulatory, or national security power.
   c. the effect of a violation or enforcement of any matter excluded under Exclusion 1.a. or 1.b.
   Exclusion 1 does not modify or limit the coverage provided under Covered Risk 8.a., 14, 15, 16, 18, 19, 20, 23, or 27.
2. Any power to take the Land by condemnation. Exclusion 2 does not modify or limit the coverage provided under Covered Risk 17.
3. Any defect, lien, encumbrance, adverse claim, or other matter:
   a. created, suffered, assumed, or agreed to by You;
   b. not Known to Us, not recorded in the Public Records at the Date of Policy, but Known to You and not disclosed in writing to Us by You prior to the date You became an Insured under this policy;
   c. resulting in no loss or damage to You;
   d. attaching or created subsequent to the Date of Policy (Exclusion 3.d. does not modify or limit the coverage provided under Covered Risk 5, 8.f., 25, 26, 27, 28, or 32); or
   e. resulting in loss or damage that would not have been sustained if You paid consideration sufficient to qualify You as a bona fide purchaser of the Title at the Date of Policy.
4. Lack of a right:
   a. to any land outside the area specifically described and referred to in Item 3 of Schedule A; and
   b. in any street, road, avenue, alley, lane, right-of-way, body of water, or waterway that abut the Land.
   Exclusion 4 does not modify or limit the coverage provided under Covered Risk 11 or 21.
5. The failure of Your existing structures, or any portion of Your existing structures, to have been constructed before, on, or after the Date of Policy in accordance with applicable building codes. Exclusion 5 does not modify or limit the coverage provided under Covered Risk 14 or 15.
6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights law, that the transfer of the Title to You is a:
   a. fraudulent conveyance or fraudulent transfer;
   b. voidable transfer under the Uniform Voidable Transactions Act; or
   c. preferential transfer:
      i. to the extent the instrument of transfer vesting the Title as shown in Schedule A is not a transfer made as a contemporaneous exchange for new value; or
      ii. for any other reason not stated in Covered Risk 30.
7. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
8. Negligence by a person or an entity exercising a right to extract or develop oil, gas, minerals, groundwater, or any other subsurface substance.
9. Any lien on Your Title for real estate taxes or assessments imposed or collected by a governmental authority that becomes due and payable after the Date of Policy. Exclusion 9 does not modify or limit the coverage provided under Covered Risk 8.a. or 27.
10. Any discrepancy in the quantity of the area, square footage, or acreage of the Land or of any improvement to the Land.

LIMITATIONS ON COVERED RISKS

Your insurance for the following Covered Risks is limited on the Owner's Coverage Statement as follows:
For Covered Risk 16, 18, 19, and 21 Your Deductible Amount and Our Maximum Dollar Limit of Liability shown in Schedule A.
The deductible amounts and maximum dollar limits shown on Schedule A are as follows:

	Your Deductible Amount	Our Maximum Dollar Limit of Liability
Covered Risk 16:	1% of Policy Amount Shown in Schedule A or $2,500 (whichever is less)	$10,000
Covered Risk 18:	1% of Policy Amount Shown in Schedule A or $5,000 (whichever is less)	$25,000
Covered Risk 19:	1% of Policy Amount Shown on Schedule A or $5,000 (whichever is less)	$25,000
Covered Risk 21:	1% of Policy Amount Shown on Schedule A or $2,500 (whichever is less)	$5,000

ALTA OWNER'S POLICY [(07-01-2021) V. 01.00]
CLTA STANDARD COVERAGE OWNER'S POLICY [(02-04-22) V. 01.00]
EXCLUSIONS FROM COVERAGE

The following matters are excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. a. any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) that restricts, regulates, prohibits, or relates to:
   i. the occupancy, use, or enjoyment of the Land;
   ii. the character, dimensions, or location of any improvement on the Land;
   iii. the subdivision of land; or
   iv. environmental remediation or protection.
   b. any governmental forfeiture, police, regulatory, or national security power.
   c. the effect of a violation or enforcement of any matter excluded under Exclusion 1.a. or 1.b.

Exclusion 1 does not modify or limit the coverage provided under Covered Risk 5 or 6.

2. Any power of eminent domain. Exclusion 2 does not modify or limit the coverage provided under Covered Risk 7.
3. Any defect, lien, encumbrance, adverse claim, or other matter:
   a. created, suffered, assumed, or agreed to by the Insured Claimant;
   b. not Known to the Company, not recorded in the Public Records at the Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   c. resulting in no loss or damage to the Insured Claimant;
   d. attaching or created subsequent to the Date of Policy (Exclusion 3.d. does not modify or limit the coverage provided under Covered Risk 9 or 10); or
   e. resulting in loss or damage that would not have been sustained if consideration sufficient to qualify the Insured named in Schedule A as a bona fide purchaser had been given for the Title at the Date of Policy.
4. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights law, that the transaction vesting the Title as shown in Schedule A is a:
   a. fraudulent conveyance or fraudulent transfer;
   b. voidable transfer under the Uniform Voidable Transactions Act; or
   c. preferential transfer:
      i. to the extent the instrument of transfer vesting the Title as shown in Schedule A is not a transfer made as a contemporaneous exchange for new value; or
      ii. for any other reason not stated in Covered Risk 9.b.
5. Any claim of a PACA-PSA Trust. Exclusion 5 does not modify or limit the coverage provided under Covered Risk 8.
6. Any lien on the Title for real estate taxes or assessments imposed or collected by a governmental authority that becomes due and payable after the Date of Policy. Exclusion 6 does not modify or limit the coverage provided under Covered Risk 2.b.
7. Any discrepancy in the quantity of the area, square footage, or acreage of the Land or of any improvement to the Land.

NOTE: The 2021 ALTA Owner's Policy may be issued to afford either Standard Coverage or Extended Coverage. In addition to variable exceptions such as taxes, easements, CC&R's, etc., the Exceptions from Coverage in a Standard Coverage policy will also include the Western Regional Standard Coverage Exceptions listed below as numbers 1 through 7. The 2021 CLTA Standard Coverage Owner's Policy will include the Western Regional Standard Coverage Exceptions listed below as numbers 1 through 7.

EXCEPTIONS FROM COVERAGE

Some historical land records contain Discriminatory Covenants that are illegal and unenforceable by law. This policy treats any Discriminatory Covenant in a document referenced in Schedule B as if each Discriminatory Covenant is redacted, repudiated, removed, and not republished or recirculated. Only the remaining provisions of the document are excepted from coverage.

This policy does not insure against loss or damage and the Company will not pay costs, attorneys' fees, or expenses resulting from the terms and conditions of any lease or easement identified in Schedule A, and the following matters:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material unless such lien is shown by the Public Records at Date of Policy.
7. Any claim to (a) ownership of or rights to minerals and similar substances, including but not limited to ores, metals, coal, lignite, oil, gas,

uranium, clay, rock, sand, and gravel located in, on, or under the Land or produced from the Land, whether such ownership or rights arise by lease, grant, exception, conveyance, reservation, or otherwise; and (b) any rights, privileges, immunities, rights of way, and easements associated therewith or appurtenant thereto, whether or not the interests or rights excepted in (a) or (b) appear in the Public Records or are shown in Schedule B.

2006 ALTA OWNER'S POLICY (06-17-06)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
   (i) the occupancy, use, or enjoyment of the Land;
   (ii) the character, dimensions, or location of any improvement erected on the Land;
   (iii) the subdivision of land; or
   (iv) environmental protection;

or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.

   (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 9 and 10); or
   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Title.
4. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction vesting the Title as shown in Schedule A, is
   (a) a fraudulent conveyance or fraudulent transfer; or
   (b) a preferential transfer for any reason not stated in Covered Risk 9 of this policy.
5. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the deed or other instrument of transfer in the Public Records that vests Title as shown in Schedule A.

NOTE: The 2006 ALTA Owner's Policy may be issued to afford either Standard Coverage or Extended Coverage. In addition to variable exceptions such as taxes, easements, CC&R's, etc., the Exceptions from Coverage in a Standard Coverage policy will also include the Western Regional Standard Coverage Exceptions listed below as numbers 1 through 7.

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records at Date of Policy but that could be (a) ascertained by an inspection of the Land, or (b) asserted by persons or parties in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records at Date of Policy.
4. Any encroachment, encumbrance, violation, variation, easement, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records at Date of Policy.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor, material or equipment unless such lien is shown by the Public Records at Date of Policy.
7. Any claim to (a) ownership of or rights to minerals and similar substances, including but not limited to ores, metals, coal, lignite, oil, gas, uranium, clay, rock, sand, and gravel located in, on, or under the Land or produced from the Land, whether such ownership or rights arise by lease, grant, exception, conveyance, reservation, or otherwise; and (b) any rights, privileges, immunities, rights of way, and easements associated therewith or appurtenant thereto, whether or not the interests or rights excepted in (a) or (b) appear in the Public Records or are shown in Schedule B.



DRAFT

APPENDIX C

ENVIRONMENTAL DATA RESOURCES, INC.

Historical Topographic Map Report

Corporate Center

Not Reported

CHINO, CA 91710

Inquiry Number: 7655324.4

May 17, 2024

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

05/17/24

Site Name:

Corporate Center
Not Reported
CHINO, CA 91710
EDR Inquiry # 7655324.4

Client Name:

Engeo Inc.
2010 Crow Canyon Place
San Ramon, CA 94583
Contact: Allie Eggert

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Engeo Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# 25751.000.001
Project: Corporate Center

Coordinates:

Latitude:	33.984908 33° 59' 6" North
Longitude:	-117.709688 -117° 42' 35" West
UTM Zone:	Zone 11 North
UTM X Meters:	434449.63
UTM Y Meters:	3760709.54
Elevation:	637.00' above sea level

Maps Provided:

2022, 2021	1949
2018	1944, 1947
2015	1942
2012	1941, 1942
1981	1933
1973	1902
1967	
1950, 1954	

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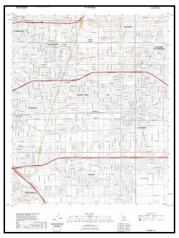
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2022, 2021 Source Sheets



Prado Dam
2022
7.5-minute, 24000

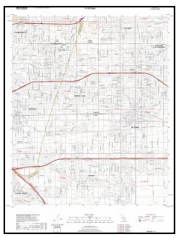


Ontario
2021
7.5-minute, 24000

2018 Source Sheets



Prado Dam
2018
7.5-minute, 24000



Ontario
2018
7.5-minute, 24000

2015 Source Sheets



Prado Dam
2015
7.5-minute, 24000

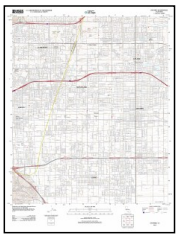


Ontario
2015
7.5-minute, 24000

2012 Source Sheets



Prado Dam
2012
7.5-minute, 24000

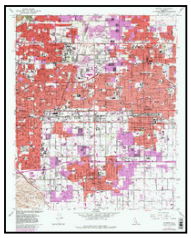


Ontario
2012
7.5-minute, 24000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1981 Source Sheets



Ontario
1981
7.5-minute, 24000
Aerial Photo Revised 1978

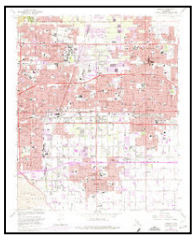


Prado Dam
1981
7.5-minute, 24000
Aerial Photo Revised 1978

1973 Source Sheets



Prado Dam
1973
7.5-minute, 24000
Aerial Photo Revised 1973

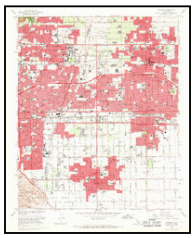


Ontario
1973
7.5-minute, 24000
Aerial Photo Revised 1973

1967 Source Sheets



Prado Dam
1967
7.5-minute, 24000
Aerial Photo Revised 1966



Ontario
1967
7.5-minute, 24000
Aerial Photo Revised 1966

1950, 1954 Source Sheets



Prado Dam
1950
7.5-minute, 24000
Aerial Photo Revised 1946



Ontario
1954
7.5-minute, 24000
Aerial Photo Revised 1952

Topo Sheet Key

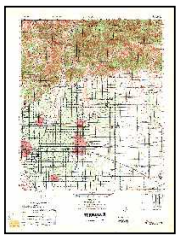
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1949 Source Sheets



Prado Dam
1949
7.5-minute, 24000
Aerial Photo Revised 1946

1944, 1947 Source Sheets



CUCAMONGA
1944
15-minute, 50000



CORONA
1947
15-minute, 50000

1942 Source Sheets

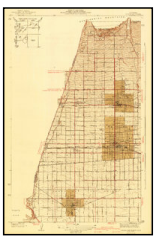


Corona
1942
15-minute, 62500
Aerial Photo Revised 1939

1941, 1942 Source Sheets



Prado
1941
7.5-minute, 31680



Ontario and Vicinity
1942
7.5-minute, 31680

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1933 Source Sheets



Prado
1933
7.5-minute, 31680



Ontario
1933
7.5-minute, 31680

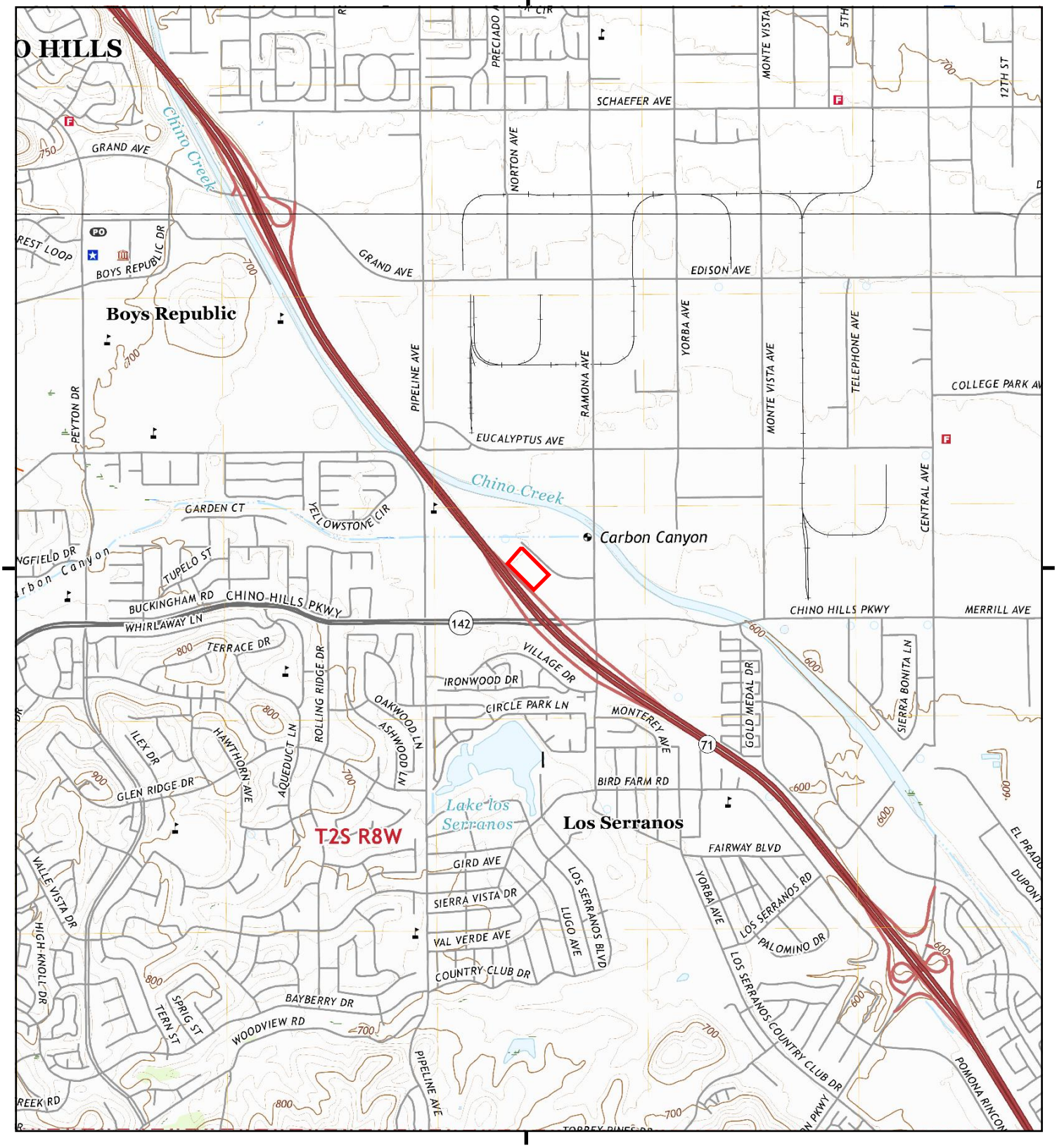
1902 Source Sheets



Corona
1902
30-minute, 125000

Historical Topo Map

2022, 2021



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

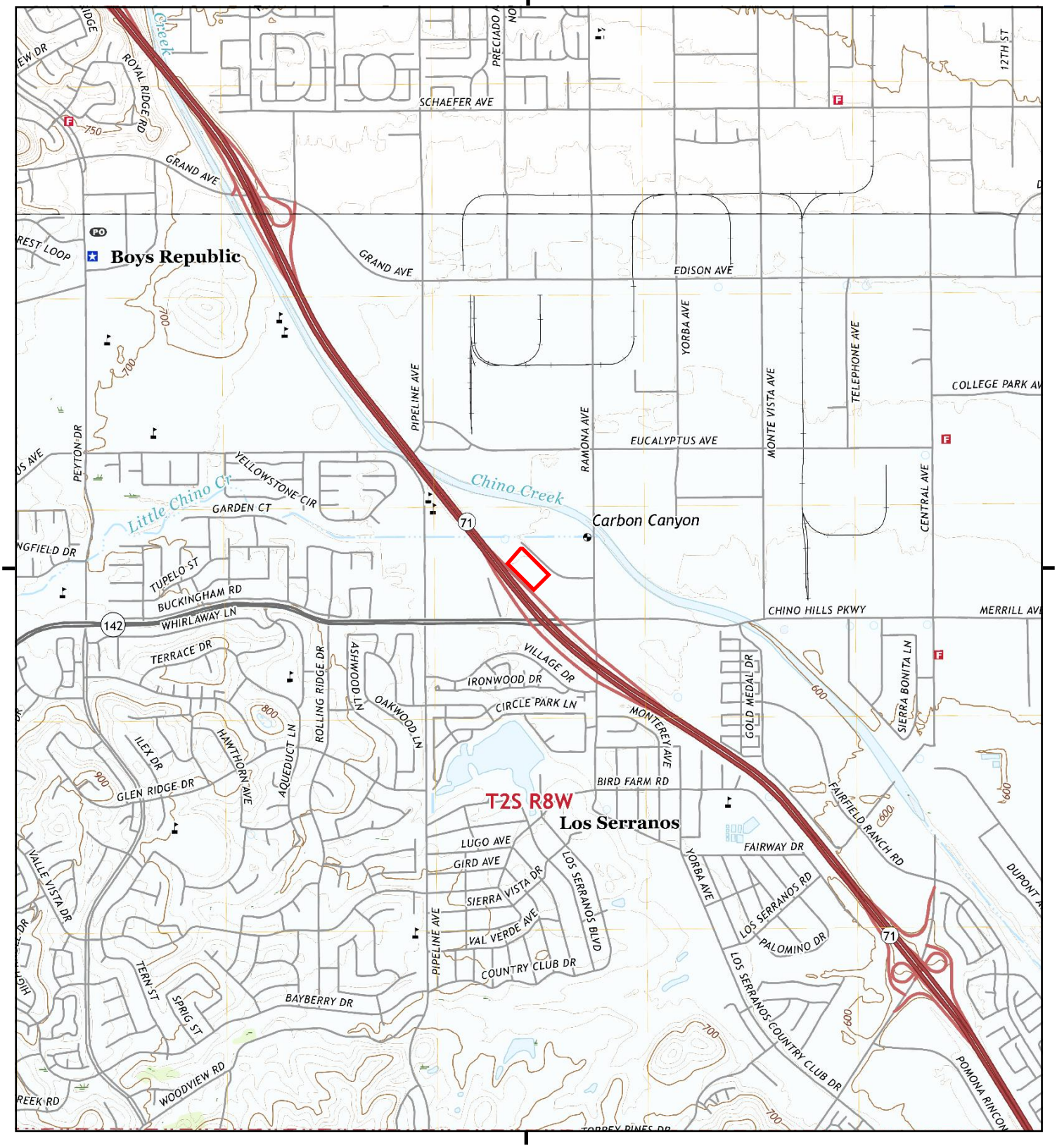
TP, Prado Dam, 2022, 7.5-minute
N, Ontario, 2021, 7.5-minute

SITE NAME: Corporate Center
ADDRESS: Not Reported
CHINO, CA 91710
CLIENT: Engeo Inc.

N

Historical Topo Map

2018



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

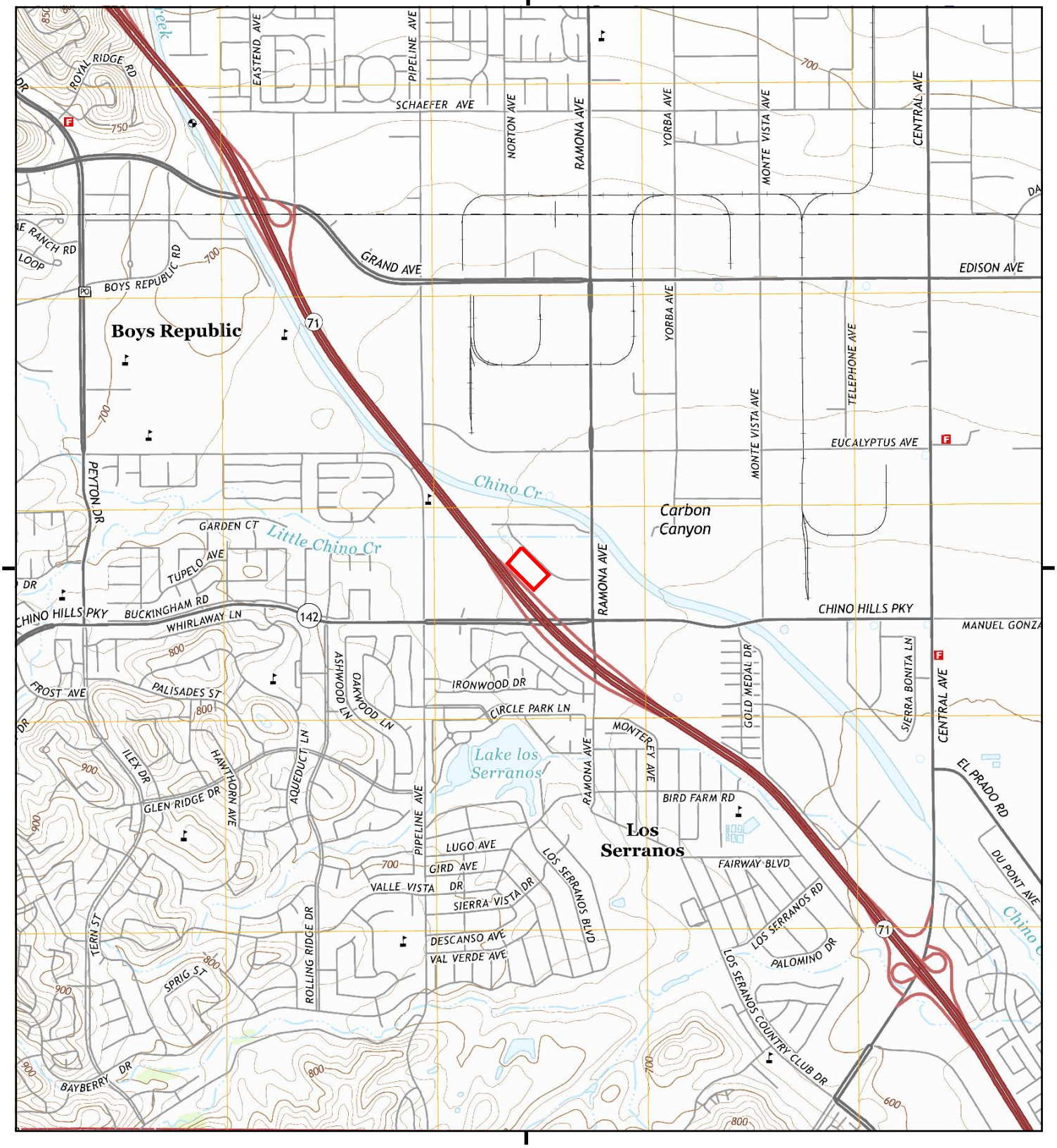
TP, Prado Dam, 2018, 7.5-minute
N, Ontario, 2018, 7.5-minute

SITE NAME: Corporate Center
ADDRESS: Not Reported
CHINO, CA 91710
CLIENT: Engeo Inc.

N

Historical Topo Map

2015



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

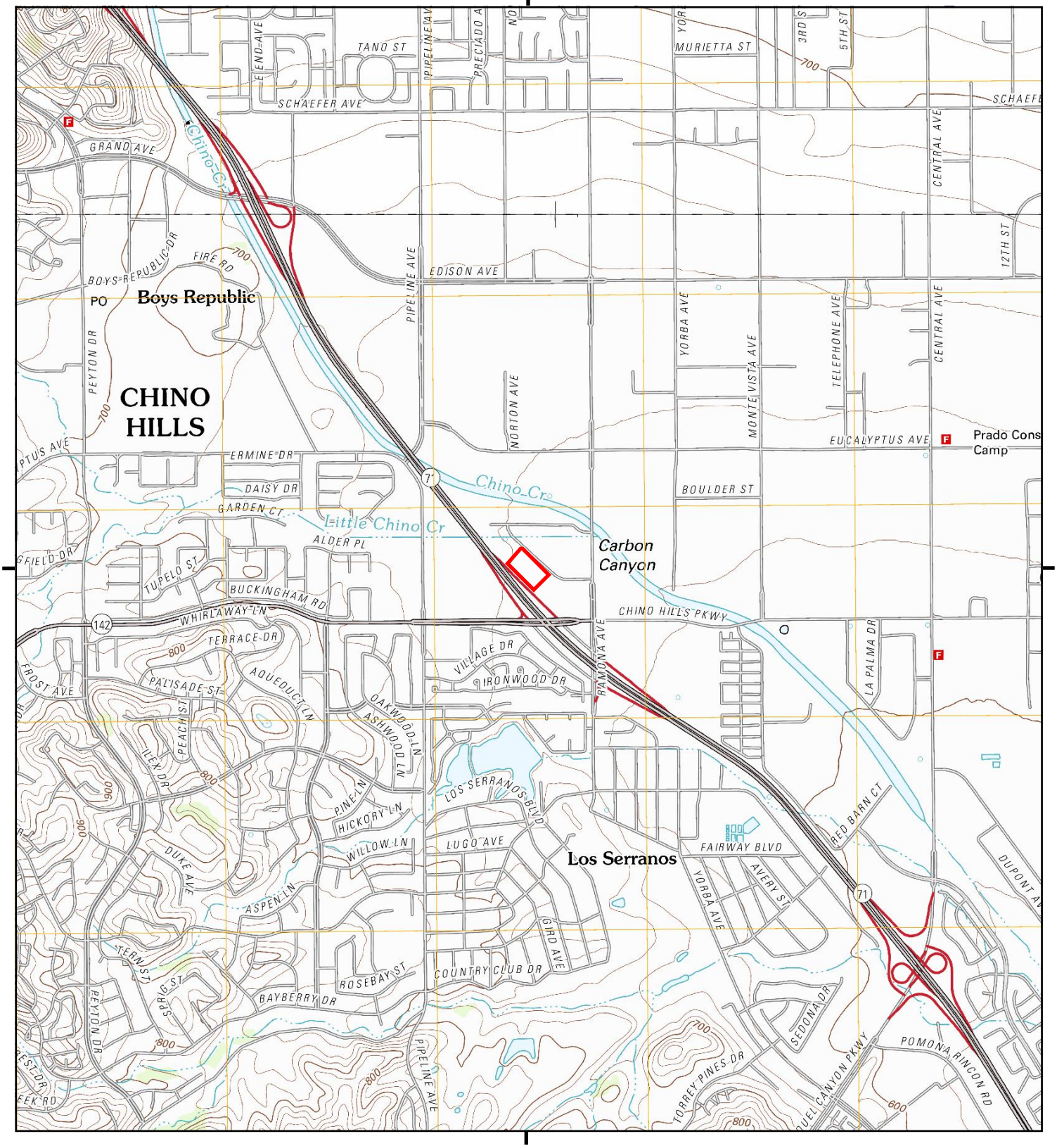
TP, Prado Dam, 2015, 7.5-minute
N, Ontario, 2015, 7.5-minute

SITE NAME: Corporate Center
ADDRESS: Not Reported
CHINO, CA 91710
CLIENT: Engeo Inc.

N

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

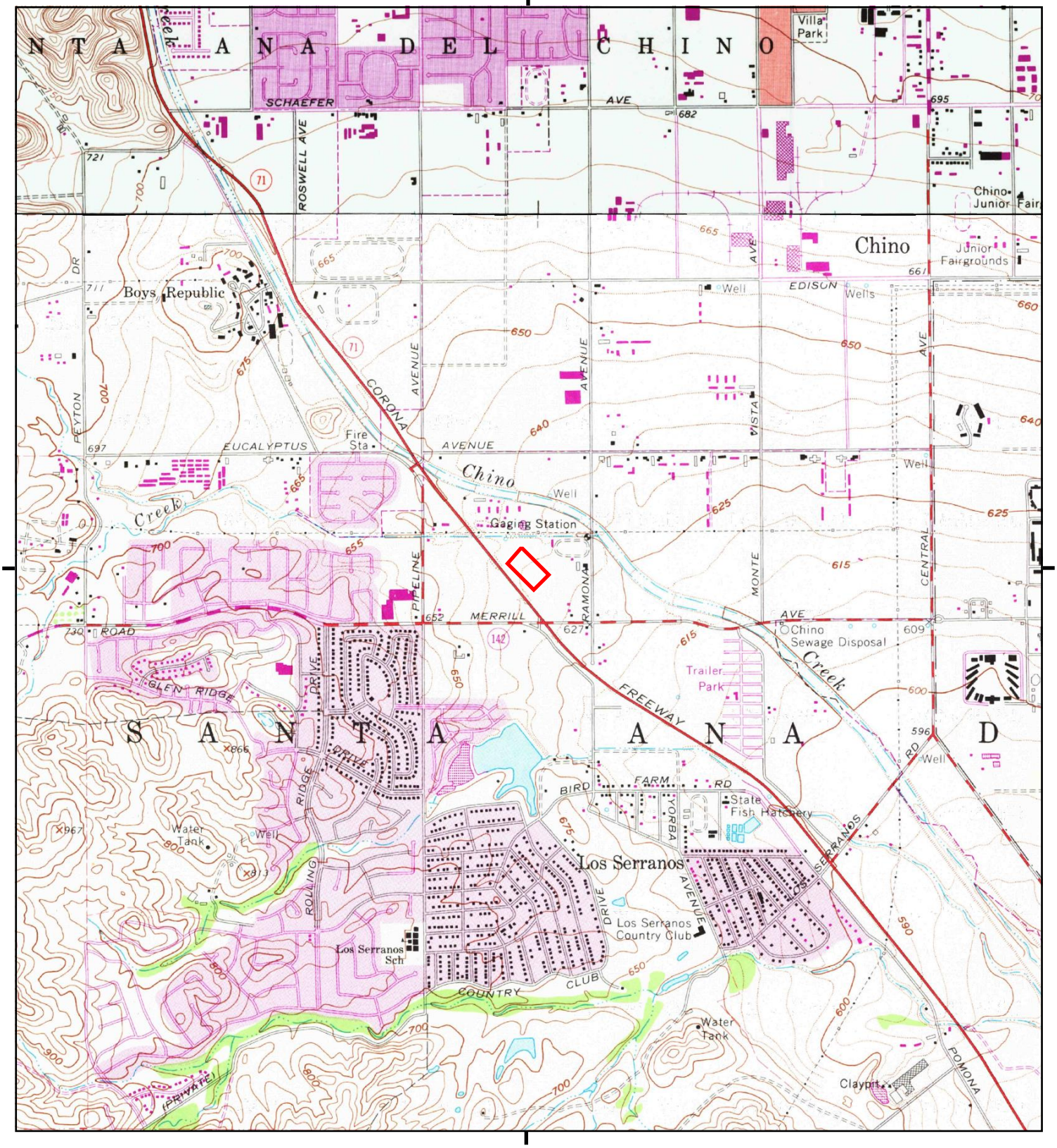
TP, Prado Dam, 2012, 7.5-minute
N, Ontario, 2012, 7.5-minute

SITE NAME: Corporate Center
ADDRESS: Not Reported
CHINO, CA 91710
CLIENT: Engeo Inc.

N

Historical Topo Map

1981



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

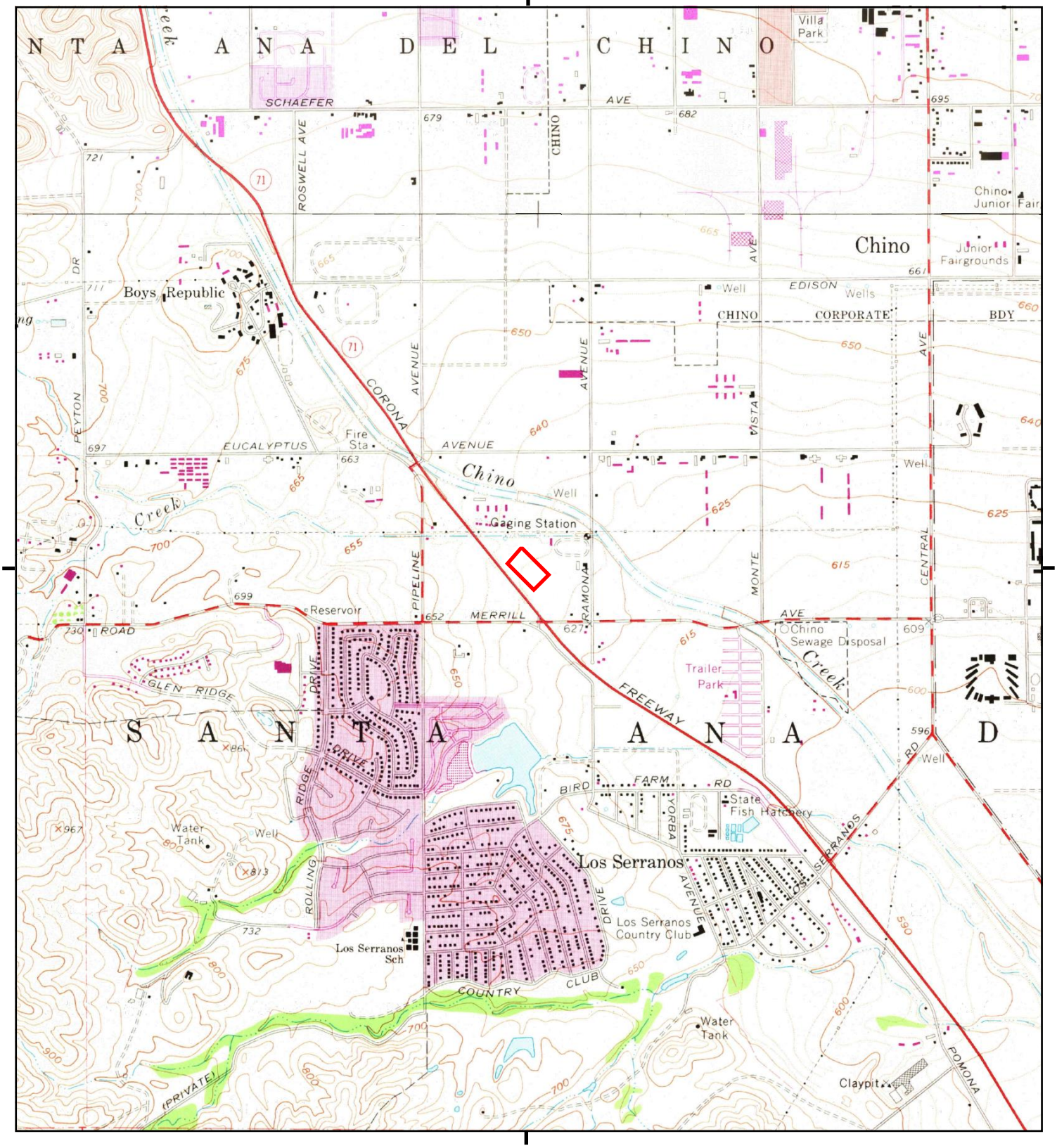
TP, Prado Dam, 1981, 7.5-minute
N, Ontario, 1981, 7.5-minute

SITE NAME: Corporate Center
ADDRESS: Not Reported
CHINO, CA 91710
CLIENT: Engeo Inc.

N

Historical Topo Map

1973



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

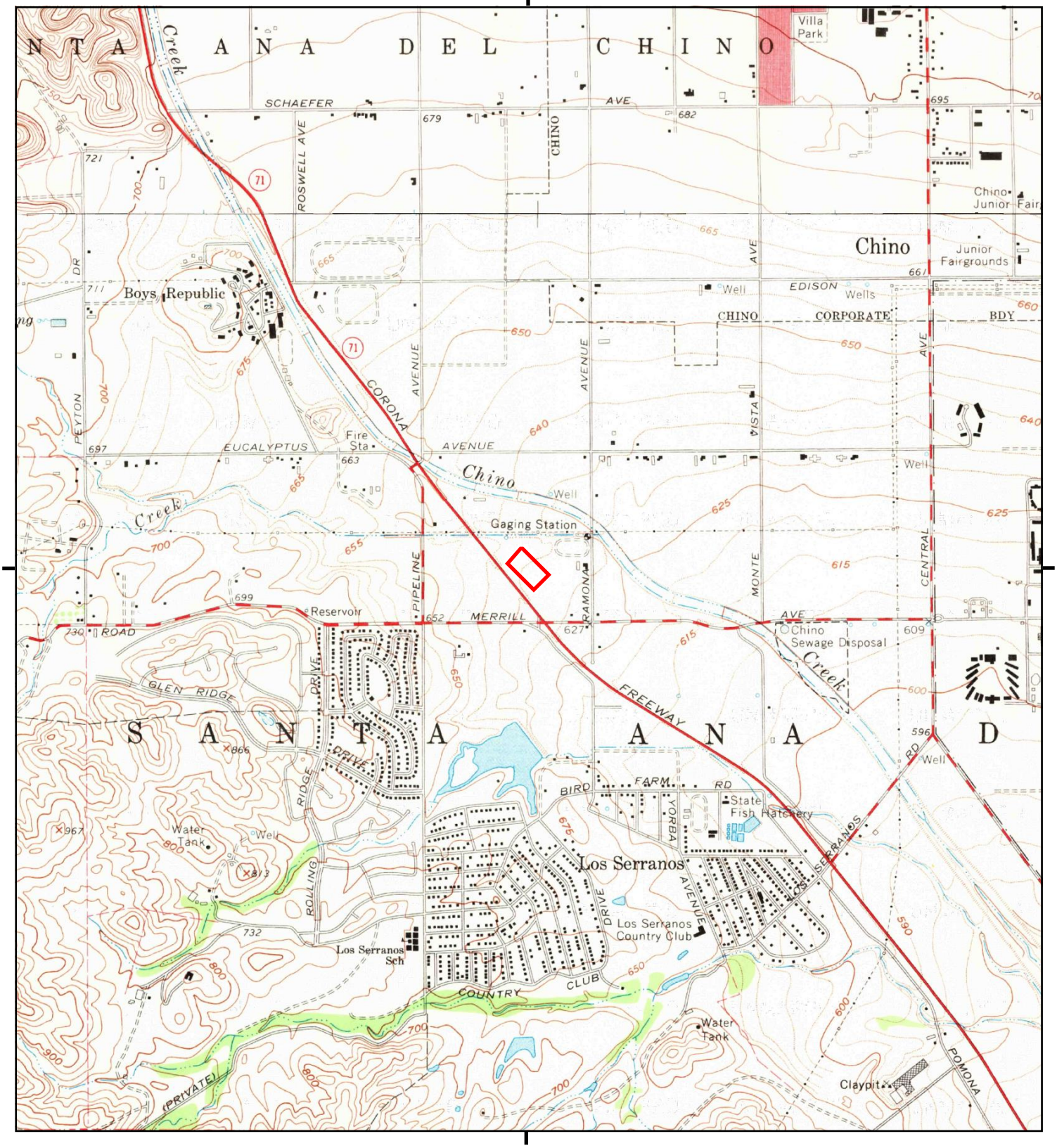
TP, Prado Dam, 1973, 7.5-minute
N, Ontario, 1973, 7.5-minute

SITE NAME: Corporate Center
ADDRESS: Not Reported
CHINO, CA 91710
CLIENT: Engeo Inc.

N

Historical Topo Map

1967



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

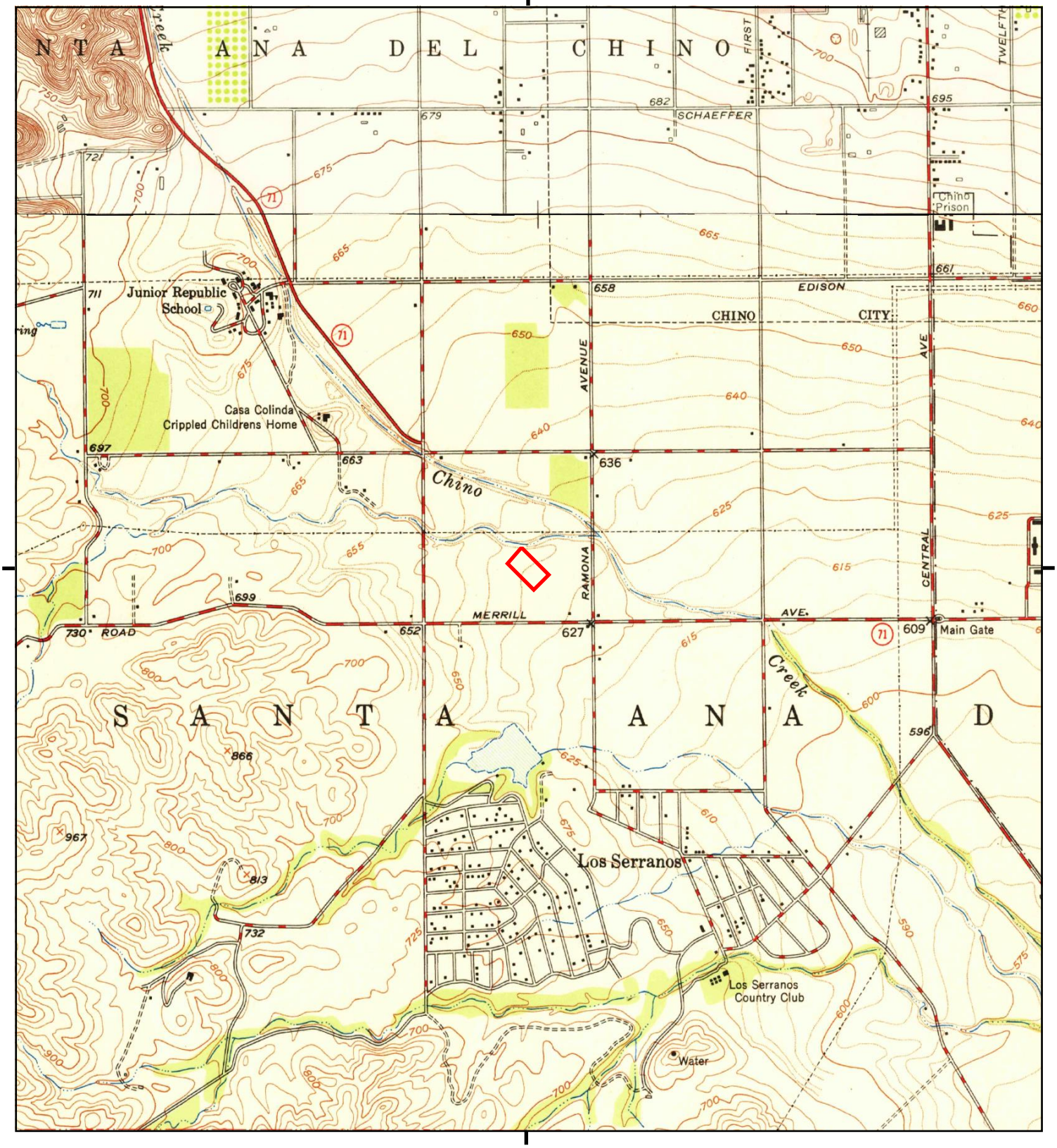
TP, Prado Dam, 1967, 7.5-minute
N, Ontario, 1967, 7.5-minute

SITE NAME: Corporate Center
ADDRESS: Not Reported
CHINO, CA 91710
CLIENT: Engeo Inc.

N

Historical Topo Map

1950, 1954



This report includes information from the following map sheet(s).

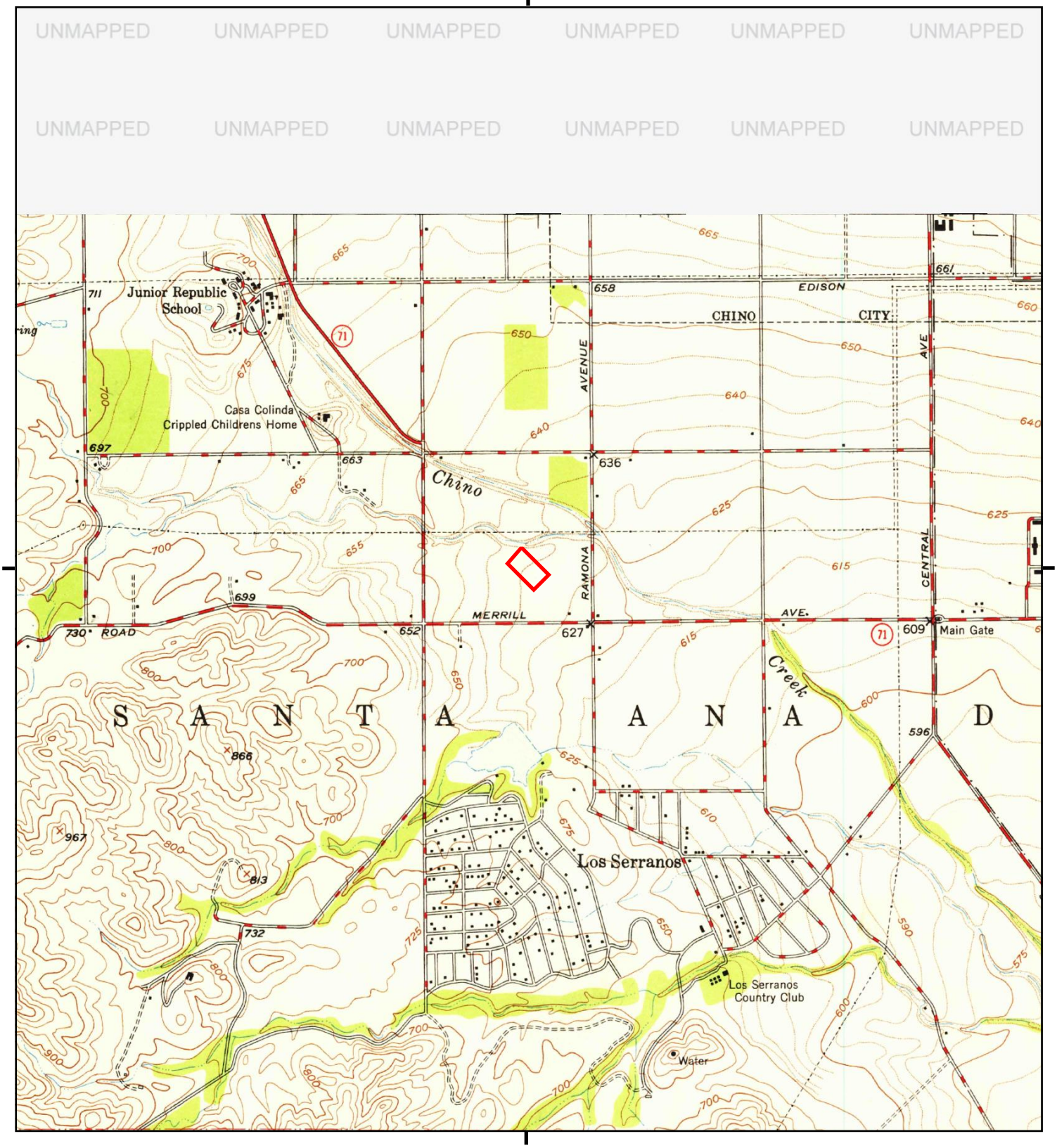
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Prado Dam, 1950, 7.5-minute
N, Ontario, 1954, 7.5-minute

SITE NAME: Corporate Center
ADDRESS: Not Reported
CHINO, CA 91710
CLIENT: Engeo Inc.

N



This report includes information from the following map sheet(s).

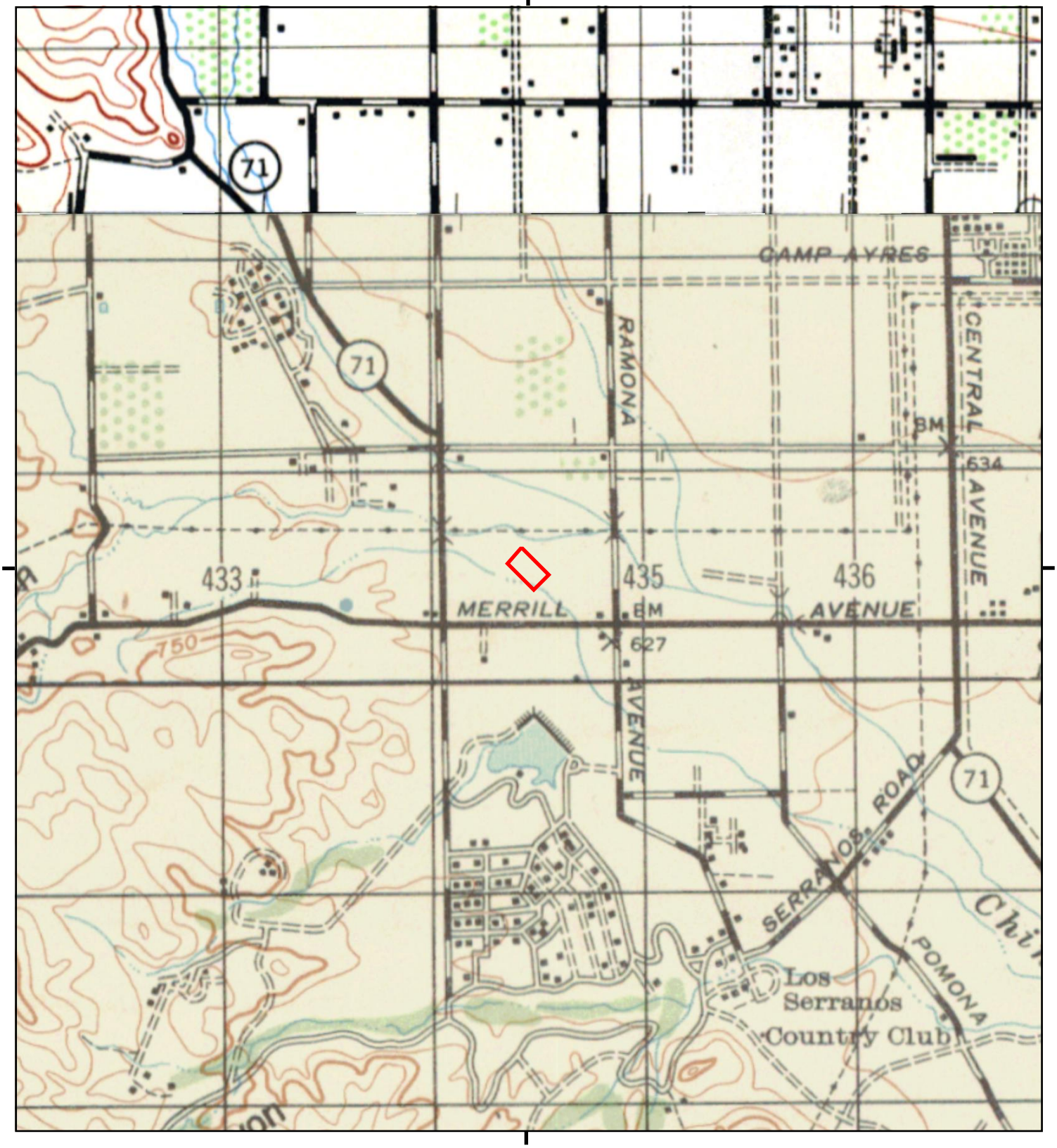
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Prado Dam, 1949, 7.5-minute

SITE NAME: Corporate Center
ADDRESS: Not Reported
CHINO, CA 91710
CLIENT: Engeo Inc.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

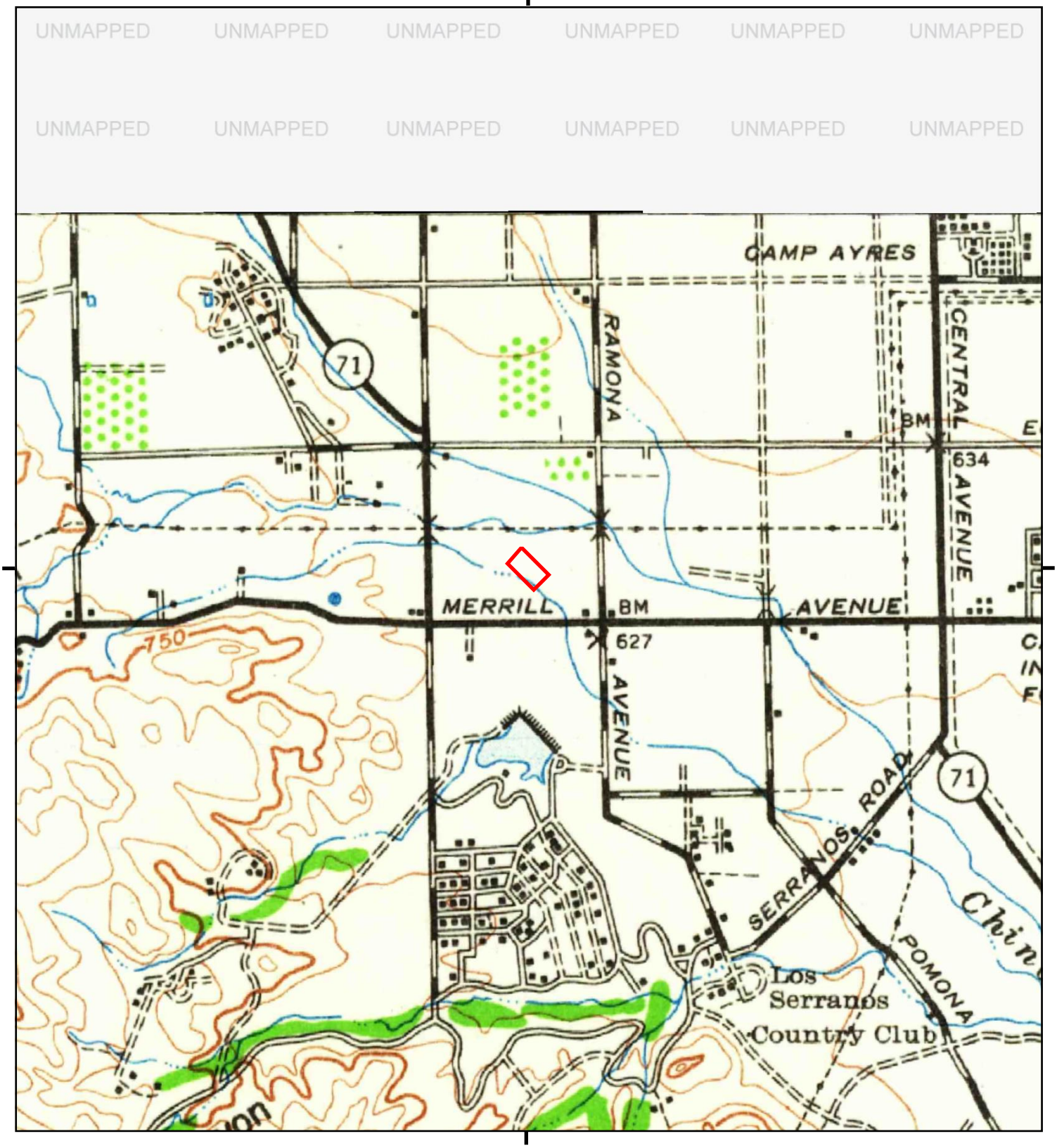
NW N NE
W E
SW S SE

TP, CORONA, 1947, 15-minute
NE, CUCAMONGA, 1944, 15-minute

SITE NAME: Corporate Center
ADDRESS: Not Reported
CHINO, CA 91710
CLIENT: Engeo Inc.

N

UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED
UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

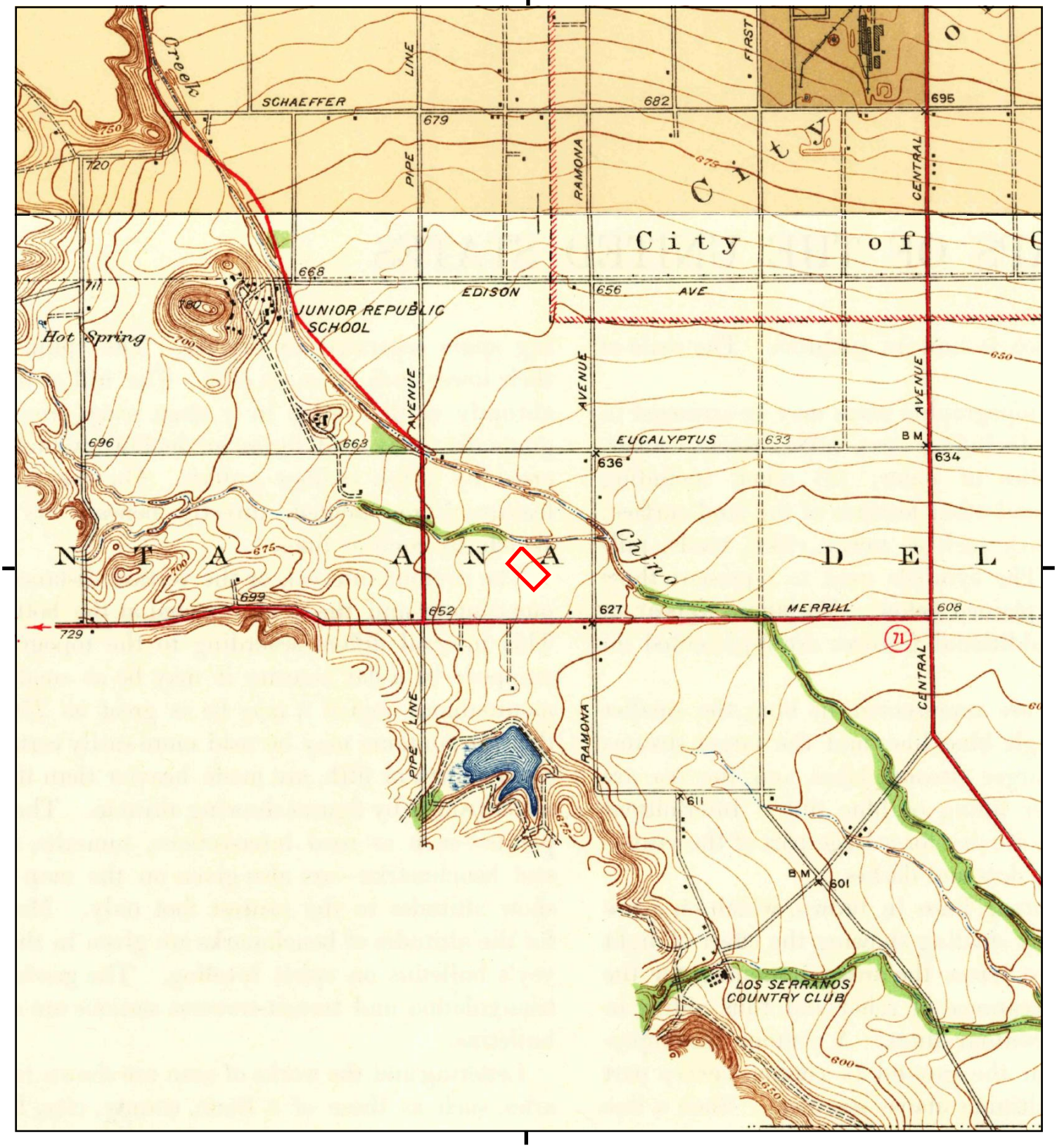
TP, Corona, 1942, 15-minute

SITE NAME: Corporate Center
ADDRESS: Not Reported
CHINO, CA 91710
CLIENT: Engeo Inc.

N

Historical Topo Map

1941, 1942



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

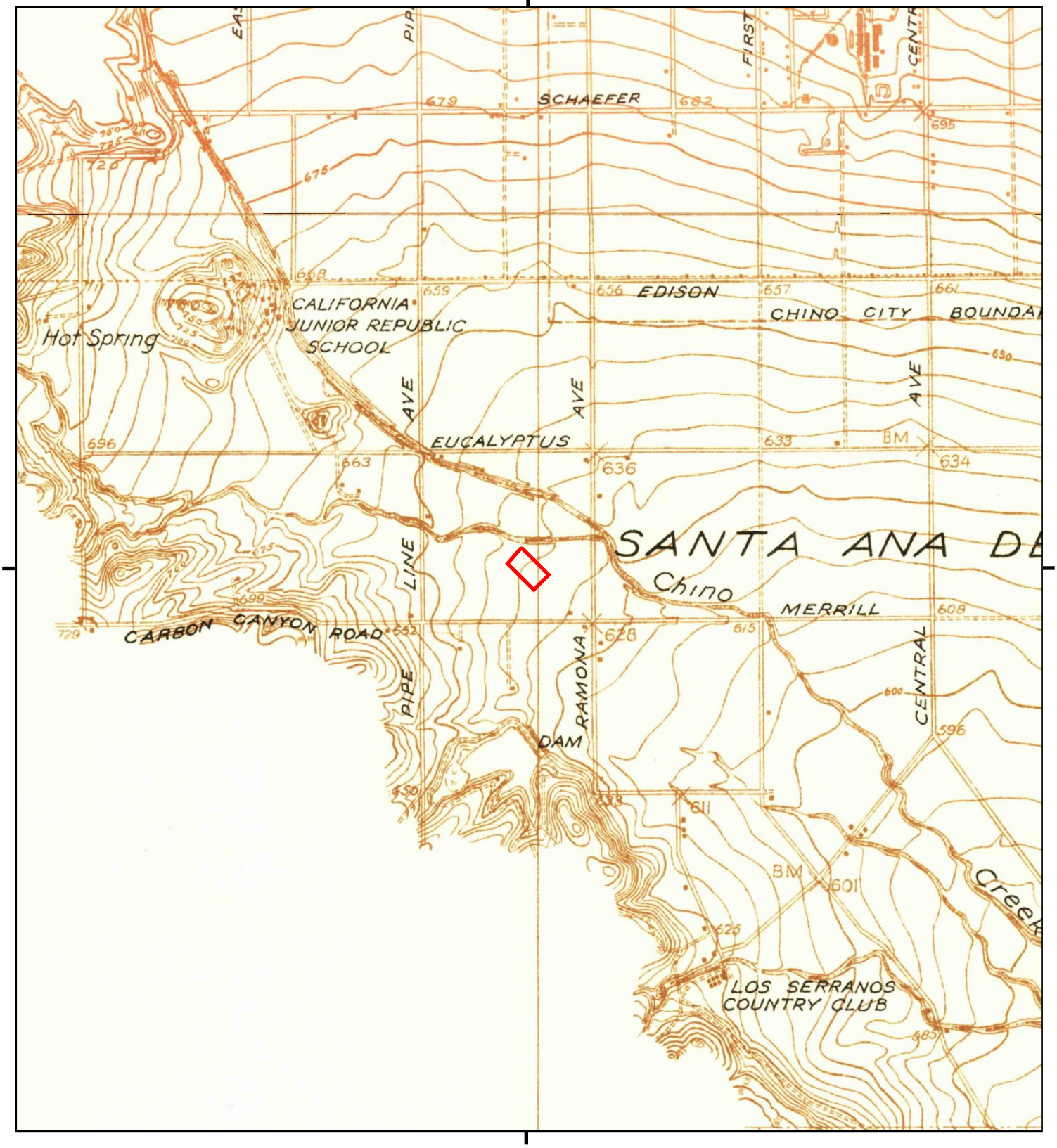
TP, Prado, 1941, 7.5-minute
N, Ontario and Vicinity, 1942, 7.5-minute

SITE NAME: Corporate Center
ADDRESS: Not Reported
CHINO, CA 91710
CLIENT: Engeo Inc.

N

Historical Topo Map

1933



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

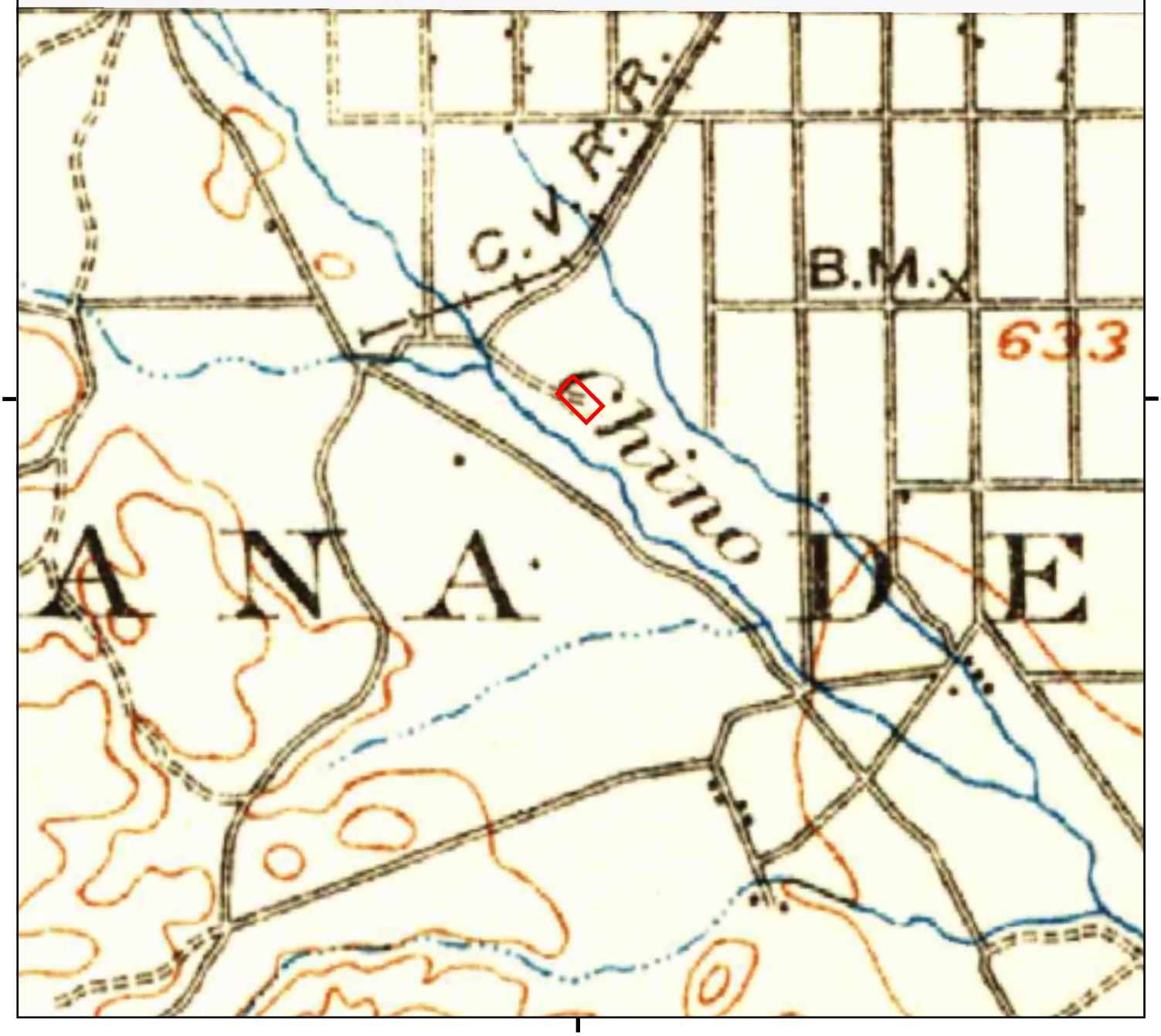
TP, Prado, 1933, 7.5-minute
N, Ontario, 1933, 7.5-minute

SITE NAME: Corporate Center
ADDRESS: Not Reported
CHINO, CA 91710
CLIENT: Engeo Inc.

N

UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED

UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Corona, 1902, 30-minute

SITE NAME: Corporate Center
ADDRESS: Not Reported
CHINO, CA 91710
CLIENT: Engeo Inc.

N



DRAFT

APPENDIX D

ENVIRONMENTAL DATA RESOURCES, INC.

Aerial Photo Decade Package

Corporate Center

Not Reported

CHINO, CA 91710

Inquiry Number: 7655324.8

May 17, 2024

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

05/17/24

Site Name:

Corporate Center
Not Reported
CHINO, CA 91710
EDR Inquiry # 7655324.8

Client Name:

Engeo Inc.
2010 Crow Canyon Place
San Ramon, CA 94583
Contact: Allie Eggert

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2020	1"=500'	Flight Year: 2020	USDA/NAIP
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2002	1"=500'	Acquisition Date: January 01, 2002	USGS/DOQQ
1994	1"=500'	Acquisition Date: June 01, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: August 03, 1989	USDA
1985	1"=500'	Flight Date: September 13, 1985	USDA
1975	1"=500'	Flight Date: August 01, 1975	USGS
1970	1"=500'	Flight Date: February 18, 1970	EDR Proprietary Brewster Pacific
1966	1"=500'	Flight Date: April 16, 1966	USGS
1963	1"=500'	Flight Date: February 28, 1963	USGS
1959	1"=500'	Flight Date: October 15, 1959	USDA
1953	1"=500'	Flight Date: March 03, 1953	USDA
1946	1"=500'	Flight Date: December 29, 1946	USGS
1938	1"=500'	Flight Date: May 30, 1938	USDA

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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INQUIRY #: 7655324.8

YEAR: 2020

= 500'

N

EDR



INQUIRY #: 7655324.8

YEAR: 2016

= 500'

N

EDR



INQUIRY #: 7655324.8

YEAR: 2012

= 500'

N

EDR



INQUIRY #: 7655324.8

YEAR: 2009

= 500'

N

EDR



INQUIRY #: 7655324.8

YEAR: 2006

= 500'

N

EDR



INQUIRY #: 7655324.8

YEAR: 2002

= 500'

N

EDR



INQUIRY #: 7655324.8

YEAR: 1994

= 500'

N

EDR



INQUIRY #: 7655324.8

YEAR: 1989

= 500'

N

EDR


INQUIRY #: 7655324.8
YEAR: 1985
= 500'
N
EDR



INQUIRY #: 7655324.8

YEAR: 1975

= 500'

N

EDR



INQUIRY #: 7655324.8

YEAR: 1970

= 500'

N

EDR


INQUIRY #: 7655324.8
YEAR: 1966
= 500'
N
EDR



INQUIRY #: 7655324.8

YEAR: 1963

= 500'

N

EDR



INQUIRY #: 7655324.8

YEAR: 1959

= 500'

N

EDR


INQUIRY #: 7655324.8
YEAR: 1953
= 500'
N
EDR



INQUIRY #: 7655324.8

YEAR: 1946

= 500'

N

EDR



INQUIRY #: 7655324.8

YEAR: 1938

= 500'

N

EDR



DRAFT

APPENDIX E

ENVIRONMENTAL DATA RESOURCES, INC.

Sanborn Map Report

Corporate Center

Not Reported

CHINO, CA 91710

Inquiry Number: 7655324.3

May 17, 2024

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

05/17/24

Site Name:

Corporate Center
Not Reported
CHINO, CA 91710
EDR Inquiry # 7655324.3

Client Name:

Engeo Inc.
2010 Crow Canyon Place
San Ramon, CA 94583
Contact: Allie Eggert

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Engeo Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 82C5-4990-8203

PO # 25751.000.001

Project Corporate Center

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 82C5-4990-8203

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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APPENDIX F

ENVIRONMENTAL DATA RESOURCES, INC.

City Directory

Corporate Center
Not Reported
CHINO, CA 91710

Inquiry Number: 7655324.5
May 17, 2024

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at approximately five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1922 through current. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

Summary information obtained is provided in the text of this report.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2020	EDR Digital Archive	-	X	X	-
2017	Cole Information	-	X	X	-
2014	Cole Information	-	X	X	-
2010	Cole Information	-	X	X	-
2008	Haines Company, Inc.	-	X	X	-
2005	Cole Information	-	X	X	-
2003	Haines Co Publishers	-	-	-	-
2002	Cole Information Services	-	-	-	-
2000	Cole Information	-	-	-	-
1996	GTE	-	-	-	-
1995	Cole Information	-	-	-	-
	GTE Directories	-	-	-	-
1992	Cole Information	-	-	-	-
1991	GTE California Incorporated	-	-	-	-
1990	GTE California Incorporated	-	-	-	-
1985	GTE	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1981	General Telephone Company of California	-	-	-	-
1980	GTE	-	-	-	-
1975	Pacific Telephone Co	-	-	-	-
1970	General Telephone Company of California	-	-	-	-
1965	GTE	-	-	-	-
1964	Luskey Brothers & Co	-	-	-	-
1961	Luskey Brothers& Co Publishers	-	-	-	-
1960	Luskey Brothers & Co Publishers	-	-	-	-
1956	General Telephone Company Publishers	-	-	-	-
1955	Luskey Brothers Co Publishers	-	-	-	-
1951	Los Angeles Directory Co Publishers	-	-	-	-
1950	The Pacific Telephone and Telegraph Co	-	-	-	-
1949	San Bernardino Directory Co. Publishers	-	-	-	-
1946	Los Angeles Directory Company Publishers	-	-	-	-
1945	Southern Califronia Telephone Company	-	-	-	-
1942	San Bernardino Directory Co Publisher	-	-	-	-
1941	Associated Telephone Company Limited	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Co.	-	-	-	-
1936	San Bernardino Directory Co Publisher	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1931	Los Angeles Directory Co.	-	-	-	-
1930	San Bernardino Directory Co Publisher	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Company	-	-	-	-
1922	R.L. Polk & Co Publishers	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

Not Reported
CHINO, CA 91710

FINDINGS DETAIL

Target Property research detail.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

CORPORATE CENTER AVE

4325 CORPORATE CENTER AVE

Year	*Uses*	*Source*
2020	EXTENDED STAY AMERICA	EDR Digital Archive
	RAMAMANI DADI	EDR Digital Archive
	ALPHONSO BUCHANAN	EDR Digital Archive
	SRINIVASA DADI	EDR Digital Archive
	JONATHON OMAHEN	EDR Digital Archive
	LEANDER WOODS	EDR Digital Archive
2017	SCHEFFLER CAR KEY LOCKSMITH	Cole Information
	AFFORDABLE TV REPAIR	Cole Information
	EXTENDED STAY AMERICA	Cole Information
2014	EXTENDED STAY HOTELS	Cole Information
	SCHEFFLER CAR KEY LOCKSMITH	Cole Information
2010	EXTENDED STAY AMERICA	Cole Information
	KIM DAVIS	Cole Information
	STEVEN DUART	Cole Information
2008	EXTENDED STAY AMERICA	Haines Company, Inc.
	EXTENDED STAY AMERICA	Haines Company, Inc.
2005	EXTENDED STAY AMERICA	Cole Information

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
4325 CORPORATE CENTER AVE	2003, 2002, 2000, 1996, 1995, 1992, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
Not Reported	2020, 2017, 2014, 2010, 2008, 2005, 2003, 2002, 2000, 1996, 1995, 1992, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922



DRAFT

APPENDIX G

ENTHALPY ANALYTICAL

Laboratory Analytical Reports

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number : 509309
Report Level : II
Report Date : 06/10/2024

Analytical Report *prepared for:*

Miles Hawkins
ENGEO
27742 Hancock Parkway
Valencia, CA 91355

Location: Corporate Center, Chino

Authorized for release by:



Diane Galvan, Project Manager
714-771-9928
diane.galvan@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Miles Hawkins ENGEO 27742 Hancock Parkway Valencia, CA 91355	Lab Job #: Location: Date Received:	509309 Corporate Center, Chino 05/30/24

Sample ID	Lab ID	Collected	Matrix
1-SS-01	509309-001	05/30/24 07:41	Soil
1-SS-02	509309-002	05/30/24 07:39	Soil
1-SS-03	509309-003	05/30/24 07:46	Soil
1-SS-04	509309-004	05/30/24 08:00	Soil
1-SS-05	509309-005	05/30/24 07:49	Soil
1-SS-06	509309-006	05/30/24 07:58	Soil
1-SS-07	509309-007	05/30/24 07:51	Soil
1-SS-08	509309-008	05/30/24 07:56	Soil
4-PT COMPOSITE 1-SS-01,SS-02,SS-03,SS-04	509309-009	05/30/24 00:00	Soil
4-PT COMPOSITE 1-SS-05,SS-06,SS-07,SS-08	509309-010	05/30/24 00:00	Soil

ENTHALPY ANALYTICAL

Detection Summary

Miles Hawkins
ENGEO
27742 Hancock Parkway
Valencia, CA 91355

Lab Job #: 509309
Location: Corporate Center, Chinc
Date Received: 05/30/24

Sample ID: 1-SS-01 **Lab ID: 509309-001** **Collected: 05/30/24 07:41**
Matrix: Soil

509309-001 Analyte	Result	Qual	Units	RL
Method: EPA 6010B Prep Method: EPA 3050B				
Arsenic	**5.3**		mg/Kg	0.99
Lead	**9.1**		mg/Kg	0.99

Sample ID: 1-SS-02 **Lab ID: 509309-002** **Collected: 05/30/24 07:39**
Matrix: Soil

509309-002 Analyte	Result	Qual	Units	RL
Method: EPA 6010B Prep Method: EPA 3050B				
Arsenic	**4.6**		mg/Kg	1.0
Lead	**8.4**		mg/Kg	1.0

Sample ID: 1-SS-03 **Lab ID: 509309-003** **Collected: 05/30/24 07:46**
Matrix: Soil

509309-003 Analyte	Result	Qual	Units	RL
Method: EPA 6010B Prep Method: EPA 3050B				
Arsenic	**4.1**		mg/Kg	0.96
Lead	**8.6**		mg/Kg	0.96

Sample ID: 1-SS-04 **Lab ID: 509309-004** **Collected: 05/30/24 08:00**
Matrix: Soil

509309-004 Analyte	Result	Qual	Units	RL
Method: EPA 6010B Prep Method: EPA 3050B				
Arsenic	**5.3**		mg/Kg	0.96
Lead	**54**		mg/Kg	0.96

Sample ID: 1-SS-05 **Lab ID: 509309-005** **Collected: 05/30/24 07:49**
Matrix: Soil

509309-005 Analyte	Result	Qual	Units	RL
Method: EPA 6010B Prep Method: EPA 3050B				
Arsenic	**4.8**		mg/Kg	1.0
Lead	**6.7**		mg/Kg	1.0

Results for any subcontracted analyses are not included in this summary. Data qualifiers and additional information necessary for the interpretation of the test results are contained in the PDF file and may not be included in this summary.

ENTHALPY ANALYTICAL

Detection Summary

Sample ID: 1-SS-06 **Lab ID: 509309-006** **Collected: 05/30/24 07:58**
Matrix: Soil

509309-006 Analyte	Result	Qual	Units	RL
Method: EPA 6010B Prep Method: EPA 3050B				
Arsenic	**5.5**		mg/Kg	0.96
Lead	**12**		mg/Kg	0.96

Sample ID: 1-SS-07 **Lab ID: 509309-007** **Collected: 05/30/24 07:51**
Matrix: Soil

509309-007 Analyte	Result	Qual	Units	RL
Method: EPA 6010B Prep Method: EPA 3050B				
Arsenic	**5.5**		mg/Kg	0.99
Lead	**24**		mg/Kg	0.99

Sample ID: 1-SS-08 **Lab ID: 509309-008** **Collected: 05/30/24 07:56**
Matrix: Soil

509309-008 Analyte	Result	Qual	Units	RL
Method: EPA 6010B Prep Method: EPA 3050B				
Arsenic	**4.7**		mg/Kg	0.99
Lead	**21**		mg/Kg	0.99

Sample ID: 4-PT COMPOSITE 1-SS-01,SS-02,SS-03,SS-04 **Lab ID: 509309-009** **Collected: 05/30/24**

No Detections

Sample ID: 4-PT COMPOSITE 1-SS-05,SS-06,SS-07,SS-08 **Lab ID: 509309-010** **Collected: 05/30/24**
Matrix: Soil

509309-010 Analyte	Result	Qual	Units	RL
Method: EPA 8081A Prep Method: EPA 3546				
4,4'-DDE	**0.012**		mg/Kg	0.0051
4,4'-DDT	**0.0085**	C	mg/Kg	0.0051

C Presence confirmed, but RPD between columns exceeds 40%

Results for any subcontracted analyses are not included in this summary. Data qualifiers and additional information necessary for the interpretation of the test results are contained in the PDF file and may not be included in this summary.

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: 509304

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:	X	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

Enthalpy Analytical - Orange
931 W. Barkley Avenue, Orange, CA 92868
Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	ENGEO	Name:	Corporate Center, Chino
Report To:	Allie Eggert, Miles Hawkins	Number:	
Email:	aeggert@engeo.com, mhawkins@engeo.com	P.O. #:	25751.000.001
Address:	27742 Hancock Parkway	Address:	Corporate Center
	Valencia, CA 91355		Chino, CA
Phone:	832-748-1788	Global ID:	
Fax:		Sampled By:	Miles Hawkins

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Total lead (EPA Method 6010)	Total arsenic (EPA Method 6010)	OCPs (EPA Method 8081A)	Test Instructions / Comments
1	1-SS-01	05/30/24	0741	S	4oz glass jar	-	X	X		Please report soil concentrations in units of mg/kg
2	1-SS-02	05/30/24	0739	S	4oz glass jar	-	X	X		
3	1-SS-03	05/30/24	0746	S	4oz glass jar	-	X	X	X	4-pt composite for OCPs
4	1-SS-04	05/30/24	0800	S	4oz glass jar	-	X	X		
5	1-SS-05	05/30/24	0749	S	4oz glass jar	-	X	X		
6	1-SS-06	05/30/24	0758	S	4oz glass jar	-	X	X		
7	1-SS-07	05/30/24	0751	S	4oz glass jar	-	X	X	X	4-pt composite for OCPs
8	1-SS-08	05/30/24	0756	S	4oz glass jar	-	X	X		
9										
10										

15, 9/13.6

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Miles Hawkins	ENGEO / Staff Engineer	5/30/2024 / 1200
[1] Received By:				5-30-24 1200
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: ENGEO

Project: Corporate Center, Chino

Date Received: 5/30/24

Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2)

Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 15.9 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☐ Ice ☑ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 3.6 #2: _____ #3: _____ #4: _____

Section 4

	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?		✔	
If custody seals are present, were they intact?			✔
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✔
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?			✔
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✔
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____ ☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 5-30-24

ENTHALPY ANALYTICAL

Analysis Results for 509309

Miles Hawkins
ENGEO
27742 Hancock Parkway
Valencia, CA 91355

Lab Job #: 509309
Location: Corporate Center, Chinc
Date Received: 05/30/24

Sample ID: 1-SS-01 **Lab ID: 509309-001** **Collected: 05/30/24 07:41**
Matrix: Soil

509309-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Arsenic	**5.3**		mg/Kg	0.99	0.99	341528	05/30/24	05/31/24	SBW
Lead	**9.1**		mg/Kg	0.99	0.99	341528	05/30/24	05/31/24	SBW

Sample ID: 1-SS-02 **Lab ID: 509309-002** **Collected: 05/30/24 07:39**
Matrix: Soil

509309-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Arsenic	**4.6**		mg/Kg	1.0	1	341528	05/30/24	05/31/24	SBW
Lead	**8.4**		mg/Kg	1.0	1	341528	05/30/24	05/31/24	SBW

Sample ID: 1-SS-03 **Lab ID: 509309-003** **Collected: 05/30/24 07:46**
Matrix: Soil

509309-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Arsenic	**4.1**		mg/Kg	0.96	0.96	341528	05/30/24	05/31/24	SBW
Lead	**8.6**		mg/Kg	0.96	0.96	341528	05/30/24	05/31/24	SBW

Sample ID: 1-SS-04 **Lab ID: 509309-004** **Collected: 05/30/24 08:00**
Matrix: Soil

509309-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Arsenic	**5.3**		mg/Kg	0.96	0.96	341528	05/30/24	05/31/24	SBW
Lead	**54**		mg/Kg	0.96	0.96	341528	05/30/24	05/31/24	SBW

Sample ID: 1-SS-05 **Lab ID: 509309-005** **Collected: 05/30/24 07:49**
Matrix: Soil

509309-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Arsenic	**4.8**		mg/Kg	1.0	1	341528	05/30/24	05/31/24	SBW
Lead	**6.7**		mg/Kg	1.0	1	341528	05/30/24	05/31/24	SBW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 509309

Sample ID: 1-SS-06 **Lab ID: 509309-006** **Collected: 05/30/24 07:58**
Matrix: Soil

509309-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Arsenic	**5.5**		mg/Kg	0.96	0.96	341528	05/30/24	05/31/24	SBW
Lead	**12**		mg/Kg	0.96	0.96	341528	05/30/24	05/31/24	SBW

Sample ID: 1-SS-07 **Lab ID: 509309-007** **Collected: 05/30/24 07:51**
Matrix: Soil

509309-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Arsenic	**5.5**		mg/Kg	0.99	0.99	341528	05/30/24	05/31/24	SBW
Lead	**24**		mg/Kg	0.99	0.99	341528	05/30/24	05/31/24	SBW

Sample ID: 1-SS-08 **Lab ID: 509309-008** **Collected: 05/30/24 07:56**
Matrix: Soil

509309-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Arsenic	**4.7**		mg/Kg	0.99	0.99	341528	05/30/24	05/31/24	SBW
Lead	**21**		mg/Kg	0.99	0.99	341528	05/30/24	05/31/24	SBW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 509309

Sample ID:	Lab ID: 509309-009	Collected: 05/30/24
4-PT COMPOSITE 1-SS-01,SS-02,SS-03,SS-04	Matrix: Soil	

509309-009 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		mg/Kg	0.0050	1	341542	05/31/24	06/03/24	KLR
beta-BHC	ND		mg/Kg	0.0050	1	341542	05/31/24	06/03/24	KLR
gamma-BHC	ND		mg/Kg	0.0050	1	341542	05/31/24	06/03/24	KLR
delta-BHC	ND		mg/Kg	0.0050	1	341542	05/31/24	06/03/24	KLR
Heptachlor	ND		mg/Kg	0.0050	1	341542	05/31/24	06/03/24	KLR
Aldrin	ND		mg/Kg	0.0050	1	341542	05/31/24	06/03/24	KLR
Heptachlor epoxide	ND		mg/Kg	0.0050	1	341542	05/31/24	06/03/24	KLR
Endosulfan I	ND		mg/Kg	0.0050	1	341542	05/31/24	06/03/24	KLR
Dieldrin	ND		mg/Kg	0.0050	1	341542	05/31/24	06/03/24	KLR
4,4'-DDE	ND		mg/Kg	0.0050	1	341542	05/31/24	06/03/24	KLR
Endrin	ND		mg/Kg	0.0050	1	341542	05/31/24	06/03/24	KLR
Endosulfan II	ND		mg/Kg	0.0050	1	341542	05/31/24	06/03/24	KLR
Endosulfan sulfate	ND		mg/Kg	0.0050	1	341542	05/31/24	06/03/24	KLR
4,4'-DDD	ND		mg/Kg	0.0050	1	341542	05/31/24	06/03/24	KLR
Endrin aldehyde	ND		mg/Kg	0.0050	1	341542	05/31/24	06/03/24	KLR
Endrin ketone	ND		mg/Kg	0.0050	1	341542	05/31/24	06/03/24	KLR
4,4'-DDT	ND		mg/Kg	0.0050	1	341542	05/31/24	06/03/24	KLR
Methoxychlor	ND		mg/Kg	0.010	1	341542	05/31/24	06/03/24	KLR
Toxaphene	ND		mg/Kg	0.10	1	341542	05/31/24	06/03/24	KLR
Chlordane (Technical)	ND		mg/Kg	0.050	1	341542	05/31/24	06/03/24	KLR
Surrogates				**Limits**					
TCMX	78%		%REC	23-120	1	341542	05/31/24	06/03/24	KLR
Decachlorobiphenyl	93%		%REC	24-120	1	341542	05/31/24	06/03/24	KLR

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 509309

Sample ID:	Lab ID: 509309-010	Collected: 05/30/24
4-PT COMPOSITE 1-SS-05,SS-06,SS-07,SS-08	Matrix: Soil	

509309-010 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		mg/Kg	0.0051	1	341542	05/31/24	06/03/24	MES
beta-BHC	ND		mg/Kg	0.0051	1	341542	05/31/24	06/03/24	MES
gamma-BHC	ND		mg/Kg	0.0051	1	341542	05/31/24	06/03/24	MES
delta-BHC	ND		mg/Kg	0.0051	1	341542	05/31/24	06/03/24	MES
Heptachlor	ND		mg/Kg	0.0051	1	341542	05/31/24	06/03/24	MES
Aldrin	ND		mg/Kg	0.0051	1	341542	05/31/24	06/03/24	MES
Heptachlor epoxide	ND		mg/Kg	0.0051	1	341542	05/31/24	06/03/24	MES
Endosulfan I	ND		mg/Kg	0.0051	1	341542	05/31/24	06/03/24	MES
Dieldrin	ND		mg/Kg	0.0051	1	341542	05/31/24	06/03/24	MES
4,4'-DDE	**0.012**		mg/Kg	0.0051	1	341542	05/31/24	06/03/24	MES
Endrin	ND		mg/Kg	0.0051	1	341542	05/31/24	06/03/24	MES
Endosulfan II	ND		mg/Kg	0.0051	1	341542	05/31/24	06/03/24	MES
Endosulfan sulfate	ND		mg/Kg	0.0051	1	341542	05/31/24	06/03/24	MES
4,4'-DDD	ND		mg/Kg	0.0051	1	341542	05/31/24	06/03/24	MES
Endrin aldehyde	ND		mg/Kg	0.0051	1	341542	05/31/24	06/03/24	MES
Endrin ketone	ND		mg/Kg	0.0051	1	341542	05/31/24	06/03/24	MES
4,4'-DDT	**0.0085**	C	mg/Kg	0.0051	1	341542	05/31/24	06/03/24	MES
Methoxychlor	ND		mg/Kg	0.010	1	341542	05/31/24	06/03/24	MES
Toxaphene	ND		mg/Kg	0.10	1	341542	05/31/24	06/03/24	MES
Chlordane (Technical)	ND		mg/Kg	0.051	1	341542	05/31/24	06/03/24	MES
Surrogates				**Limits**					
TCMX	73%		%REC	23-120	1	341542	05/31/24	06/03/24	MES
Decachlorobiphenyl	79%		%REC	24-120	1	341542	05/31/24	06/03/24	MES

C Presence confirmed, but RPD between columns exceeds 40%
ND Not Detected

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1157195	Batch: 341528
Matrix: Soil	Method: EPA 6010B	Prep Method: EPA 3050B

QC1157195 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Arsenic	ND		mg/Kg	1.0	05/30/24	05/31/24
Lead	ND		mg/Kg	1.0	05/30/24	05/31/24

Type: Lab Control Sample	Lab ID: QC1157196	Batch: 341528
Matrix: Soil	Method: EPA 6010B	Prep Method: EPA 3050B

QC1157196 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Arsenic	96.33	100.0	mg/Kg	96%		80-120
Lead	108.9	100.0	mg/Kg	109%		80-120

Type: Matrix Spike	Lab ID: QC1157197	Batch: 341528
Matrix (Source ID): Soil (509314-001)	Method: EPA 6010B	Prep Method: EPA 3050B

QC1157197 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	105.3	6.122	98.04	mg/Kg	101%		75-125	0.98
Lead	132.0	22.46	98.04	mg/Kg	112%		75-125	0.98

Type: Matrix Spike Duplicate	Lab ID: QC1157198	Batch: 341528
Matrix (Source ID): Soil (509314-001)	Method: EPA 6010B	Prep Method: EPA 3050B

QC1157198 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Arsenic	99.15	6.122	97.09	mg/Kg	96%		75-125	5	35	0.97
Lead	125.7	22.46	97.09	mg/Kg	106%		75-125	4	20	0.97

Type: Post Digest Spike	Lab ID: QC1157199	Batch: 341528
Matrix (Source ID): Soil (509314-001)	Method: EPA 6010B	Prep Method: EPA 3050B

QC1157199 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	105.7	6.122	99.01	mg/Kg	101%		75-125	0.99
Lead	126.9	22.46	99.01	mg/Kg	106%		75-125	0.99

ENTHALPY ANALYTICAL

Batch QC

Type:	**Blank**	**Lab ID:**	**QC1157256**	**Batch:**	**341542**
Matrix:	**Soil**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3546**

QC1157256 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
alpha-BHC	ND		mg/Kg	0.0051	05/31/24	06/03/24
beta-BHC	ND		mg/Kg	0.0051	05/31/24	06/03/24
gamma-BHC	ND		mg/Kg	0.0051	05/31/24	06/03/24
delta-BHC	ND		mg/Kg	0.0051	05/31/24	06/03/24
Heptachlor	ND		mg/Kg	0.0051	05/31/24	06/03/24
Aldrin	ND		mg/Kg	0.0051	05/31/24	06/03/24
Heptachlor epoxide	ND		mg/Kg	0.0051	05/31/24	06/03/24
Endosulfan I	ND		mg/Kg	0.0051	05/31/24	06/03/24
Dieldrin	ND		mg/Kg	0.0051	05/31/24	06/03/24
4,4'-DDE	ND		mg/Kg	0.0051	05/31/24	06/03/24
Endrin	ND		mg/Kg	0.0051	05/31/24	06/03/24
Endosulfan II	ND		mg/Kg	0.0051	05/31/24	06/03/24
Endosulfan sulfate	ND		mg/Kg	0.0051	05/31/24	06/03/24
4,4'-DDD	ND		mg/Kg	0.0051	05/31/24	06/03/24
Endrin aldehyde	ND		mg/Kg	0.0051	05/31/24	06/03/24
Endrin ketone	ND		mg/Kg	0.0051	05/31/24	06/03/24
4,4'-DDT	ND		mg/Kg	0.0051	05/31/24	06/03/24
Methoxychlor	ND		mg/Kg	0.010	05/31/24	06/03/24
Toxaphene	ND		mg/Kg	0.10	05/31/24	06/03/24
Chlordane (Technical)	ND		mg/Kg	0.051	05/31/24	06/03/24
Surrogates				**Limits**		
TCMX	74%		%REC	23-120	05/31/24	06/03/24
Decachlorobiphenyl	79%		%REC	24-120	05/31/24	06/03/24

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample**	**Lab ID:**	**QC1157257**	**Batch:**	**341542**
Matrix:	**Soil**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3546**

QC1157257 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
alpha-BHC	0.03668	0.04950	mg/Kg	74%		22-129
beta-BHC	0.03473	0.04950	mg/Kg	70%		28-125
gamma-BHC	0.03660	0.04950	mg/Kg	74%		22-128
delta-BHC	0.03475	0.04950	mg/Kg	70%		24-131
Heptachlor	0.03526	0.04950	mg/Kg	71%		18-124
Aldrin	0.03445	0.04950	mg/Kg	70%		23-120
Heptachlor epoxide	0.03240	0.04950	mg/Kg	65%		26-120
Endosulfan I	0.03055	0.04950	mg/Kg	62%		25-126
Dieldrin	0.03351	0.04950	mg/Kg	68%		23-124
4,4'-DDE	0.03576	0.04950	mg/Kg	72%		28-121
Endrin	0.03540	0.04950	mg/Kg	72%		25-127
Endosulfan II	0.03560	0.04950	mg/Kg	72%		29-121
Endosulfan sulfate	0.04322	0.04950	mg/Kg	87%		30-121
4,4'-DDD	0.03479	0.04950	mg/Kg	70%		26-120
Endrin aldehyde	0.02234	0.04950	mg/Kg	45%		10-120
Endrin ketone	0.03865	0.04950	mg/Kg	78%		28-125
4,4'-DDT	0.03866	0.04950	mg/Kg	78%		22-125
Methoxychlor	0.04332	0.04950	mg/Kg	88%		28-130
Surrogates						
TCMX	0.03513	0.04950	mg/Kg	71%		23-120
Decachlorobiphenyl	0.03860	0.04950	mg/Kg	78%		24-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1157258**	**Batch:**	**341542**
Matrix (Source ID):	**Soil (509309-010)**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3546**

QC1157258 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
alpha-BHC	0.04373	ND	0.05102	mg/Kg	86%		46-120	1
beta-BHC	0.03639	ND	0.05102	mg/Kg	71%		41-120	1
gamma-BHC	0.04444	ND	0.05102	mg/Kg	87%		41-120	1
delta-BHC	0.04074	ND	0.05102	mg/Kg	80%		38-123	1
Heptachlor	0.04108	ND	0.05102	mg/Kg	81%		39-120	1
Aldrin	0.04044	ND	0.05102	mg/Kg	79%		34-120	1
Heptachlor epoxide	0.03872	ND	0.05102	mg/Kg	76%		43-120	1
Endosulfan I	0.03943	ND	0.05102	mg/Kg	77%		45-120	1
Dieldrin	0.04190	ND	0.05102	mg/Kg	82%		45-120	1
4,4'-DDE	0.05421	0.01244	0.05102	mg/Kg	82%		34-120	1
Endrin	0.04511	ND	0.05102	mg/Kg	88%		40-120	1
Endosulfan II	0.04382	ND	0.05102	mg/Kg	86%		41-120	1
Endosulfan sulfate	0.04295	ND	0.05102	mg/Kg	84%		42-120	1
4,4'-DDD	0.04471	ND	0.05102	mg/Kg	88%		41-120	1
Endrin aldehyde	0.04089	ND	0.05102	mg/Kg	80%		30-120	1
Endrin ketone	0.04780	ND	0.05102	mg/Kg	94%		45-120	1
4,4'-DDT	0.05759	0.008471	0.05102	mg/Kg	96%		35-127	1
Methoxychlor	0.05485	ND	0.05102	mg/Kg	107%		42-136	1
Surrogates								
TCMX	0.04103		0.05102	mg/Kg	80%		23-120	1
Decachlorobiphenyl	0.04826		0.05102	mg/Kg	95%		24-120	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1157259**	**Batch:**	**341542**
Matrix (Source ID):	**Soil (509309-010)**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3546**

QC1157259 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
alpha-BHC	0.04046	ND	0.05102	mg/Kg	79%		46-120	8	30	1
beta-BHC	0.03960	ND	0.05102	mg/Kg	78%		41-120	8	30	1
gamma-BHC	0.04074	ND	0.05102	mg/Kg	80%		41-120	9	30	1
delta-BHC	0.03667	ND	0.05102	mg/Kg	72%		38-123	11	30	1
Heptachlor	0.03545	ND	0.05102	mg/Kg	69%		39-120	15	30	1
Aldrin	0.03681	ND	0.05102	mg/Kg	72%		34-120	9	30	1
Heptachlor epoxide	0.03465	ND	0.05102	mg/Kg	68%		43-120	11	30	1
Endosulfan I	0.03546	ND	0.05102	mg/Kg	70%		45-120	11	30	1
Dieldrin	0.03719	ND	0.05102	mg/Kg	73%		45-120	12	30	1
4,4'-DDE	0.04937	0.01244	0.05102	mg/Kg	72%		34-120	9	30	1
Endrin	0.03864	ND	0.05102	mg/Kg	76%		40-120	15	30	1
Endosulfan II	0.03668	ND	0.05102	mg/Kg	72%		41-120	18	30	1
Endosulfan sulfate	0.03399	ND	0.05102	mg/Kg	67%		42-120	23	30	1
4,4'-DDD	0.03879	ND	0.05102	mg/Kg	76%		41-120	14	30	1
Endrin aldehyde	0.03261	ND	0.05102	mg/Kg	64%		30-120	23	30	1
Endrin ketone	0.03923	ND	0.05102	mg/Kg	77%		45-120	20	30	1
4,4'-DDT	0.04859	0.008471	0.05102	mg/Kg	79%		35-127	17	30	1
Methoxychlor	0.04194	ND	0.05102	mg/Kg	82%		42-136	27	30	1
Surrogates										
TCMX	0.03922		0.05102	mg/Kg	77%		23-120			1
Decachlorobiphenyl	0.03973		0.05102	mg/Kg	78%		24-120			1

ND Not Detected



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APPENDIX H

QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL

NADINE E. PERIAT, PG
Associate

EDUCATION
BS Earth Sciences, University of California, Santa Cruz, 2008

EXPERIENCE
Years with ENGEO: 5
Years with Other Firms: 10

REGISTRATIONS & CERTIFICATIONS
Professional Geologist, CA 9139
OSHA 30, CO 18532410
HAZWOPER 40 Hour Training, CA
HAZWOPER 8 Hour Training, CA
CPR/AED/First Aid Training, CA
GWTEZB

SPECIALIZATIONS
- Naturally Occurring Asbestos Surveys
- Environmental Assessments and Remediation
- Geologic Hazard Evaluation
- Hydrology
- Phase 1 Environmental Audits

Nadine joined ENGEO in 2018 and has 15 years of experience in due diligence site assessment, contaminated site characterization and remediation. Nadine's focus has been in the San Francisco Bay Area, particularly in the South Bay area, and also has wider experience managing cleanup sites across California. Nadine's expertise is in historically industrial site development, petroleum and chlorinated site cleanups, vapor intrusion assessment and mitigation, due diligence for new property acquisition, and construction related environmental assistance including soil offhaul/reuse characterization, site management plans, and emergency response for uncovered relic facilities.

SELECT PROJECT EXPERIENCE

Google Downtown West Development—San Jose, CA
Project Manager. Nadine manages both the site wide environmental and geotechnical work at the San Jose Downtown West Campus. Nadine's team has performed approximately 30 Phase I Environmental Site Assessments for properties in Downtown San Jose along the Caltrain railroad alignment, typically on 3 or 5 day turnaround times to meet the project's aggressive timeline. A preliminary geotechnical assessment was performed in 2020, and currently, a site wide Phase II investigation is underway which will include approximately 300 soil, groundwater, and soil gas samples across the site. Nadine's geotechnical and environmental teams work together to ensure that proposed remediation and ground improvements are compatible and suite the development plan. A transit oriented district situated in the heart of Silicon Valley, the San Jose GOOGLE Village project includes approximately 50 acres of land with proposed development of approximately 10 million square feet of retail and commercial space along with residential units.

Office High Rise Building, 3655 Kifer Road—Santa Clara, CA
Project Manager. This development is located adjacent to the former National Semiconductor (NCS) superfund site, and required dewatering to install a subterranean parking garage. The developer had to ensure that their dewatering operations did not cause significant drawdown up to the edge of the superfund plume, which would then cause migration of the controlled plume. ENGEO wrote a groundwater management plan and installed three groundwater monitoring wells and nine vibrating wire piezometer points around the site. ENGEO established threshold drawdown levels (in tenths of inches)

which would trigger a call to turn down or shut off dewatering. ENGEO also collected groundwater quality samples weekly and graphed concentrations to evaluate any trends in concentration indicative of migration. During dewatering, hydrologic connections were studied between dewatering wells and monitoring points, and pump rates on individual dewatering wells were fine tuned to meet the drawdown requirements. Piezometer readings were collected daily by ENGEO, compared to a background monitoring point, and processed to show drawdown curves which were distributed by end of each day to the Superfund management team and the Regional Water Quality Control Board. ENGEO and the development team completed the job successfully without affecting the Superfund plume after roughly 6 months of intensive daily monitoring.

Mora Estancia—Mountain View, CA
Project Manager. Provides project management and serves as technical lead for the Mora Estancia multi-family residential development vapor intrusion mitigation system (VIMS) implementation. Nadine was responsible for coordination between construction field crews, developer, Bay Area Air Quality Management District, and the Department of Toxic Substances Control (DTSC) during initial VIMS construction and certification. Nadine directs regular sampling and inspection of VIMS systems, makes recommendations and designs sampling strategy for VIMS system operation, prepares sampling reports, annual land use covenant inspection reports, five-year review reports, and is the primary point of contact with the DTSC. The VIMS system at Mora Estancia is required due to historical semi-conduct manufacturing operations which impacted soil, groundwater and soil gas with chlorinated solvents, particularly tetrachloroethylene (PCE) and trichloroethylene (TCE). The VIMS system was constructed during a tumultuous time in vapor intrusion regulation, and Nadine utilizes her understanding of the most current guidance, regulation and industry research to aid in decision making and human health and safety.

3655 Kifer Road—Santa Clara, CA
Project Manager. Nadine wrote and implemented the project's complex dewatering plan, attended OAC meetings and coordinated sub-grade design and construction activities with the design and construction team. The development is located adjacent to the former National Semiconductor (NCS) superfund site, and the developer is subject to high frequency monitoring of drawdown effects on the former NCS site, for concerns of plume migration. This includes daily monitoring of nine piezometers, weekly sampling of seven wells, daily reporting to the Regional Board and superfund responsible parties, and third party oversight by Langan Engineering. The project also involves daily communication of drawdown status to construction crew, dewatering pump analysis, and adjustment to meet drawdown limits.

San Luis Reservoir Maintenance Facility—Los Banos, CA
Project Manager: Nadine leads the environmental assessment and remediation of a former diesel and gasoline release at a California Department of Parks and Recreation facility located between the San Luis Reservoir and O'Neill Forebay which are each drinking water resources. The release of petroleum occurred prior to the first investigation in 1996, and despite previous efforts to remediate the site, multiple feet of free phase gasoline persist in groundwater monitoring wells. Nadine replaced the prior environmental consultant and provided an in-depth review of site conditions, previous explorations, and details of a failed Soil Vapor Extraction (SVE) operation. Nadine's team outlined reasons why previous remedial efforts failed, citing well and system design errors and improperly screened wells which have only exasperated the extent of groundwater contamination. Nadine's team conducted investigation to delineate the petroleum plume toward the O'Neill Forebay and will conduct a SVE pilot test in 2023 utilizing an optimized design, coupled with free phase product removal.

County of San Mateo Building—Redwood City, CA
Technical Lead: Nadine provides on-call environmental consultation to the County of San Mateo and their contractors during development of the new County Buildings. Nadine completed phase I and phase II environmental site assessments, prepared a soil management plan, vapor intrusion study, led discussions with the County's Department of Environmental Health and provided third-party review for Vapor Intrusion Mitigation Systems. Nadine has also regularly reviewed import soil for site suitability from an environmental standpoint, consulted with contractors on health and safety measures for contaminants of concern, directed lead impacted soil removal, and provided opinions on handling and disposal of creosote preserved tinder piles uncovered during demolition.

Former Marine Corps Air Station (MCAS)—Tustin, CA
Project Manager. Nadine was the project manager and technical lead on this vapor intrusion assessment of over 100 acres of the former MCAS Tustin base. The assessment was conducted prior to the City of Tustin assuming ownership of the site for redevelopment into a mixed-use development. Contaminants at the site included 1,2,3-trichloropropene and other volatile organic compounds. The work plan involved a dynamic scope consisting of multi-level soil gas and groundwater sampling, and a risk assessment to recommend mitigation measures in areas of the site. Nadine's management duties included contractual review and change letters, daily communications with the Navy, regulatory agencies and/or stakeholders on progress/ scope collaboration, and coordination of subcontractors and staff.

State Parks On-Call Projects—Various Sites, CA
Project Manager. Nadine is the project manager and technical lead for an on-call contract consisting of multiple State Parks projects in California. Sites are typically maintenance facilities or State Parks buildings where a release of contamination has required State-oversight cleanup. These locations are typically sensitive drinking water or habitat locations, and Nadine coordinates work with involved agencies including the Department of Water Resources, Regional Water Quality Control Board, Department of Fish and Wildlife, Bureau of Reclamation, and local government agencies for site access, biological surveys, and general site compliance.

Harbor Pointe—Newark, CA
Senior Geologist. Nadine performed a third party review of previous environmental reports for portions of the site for the prospective buyer, provided opinion on data gaps and potential future issues, and interpreted property use limitation and operating needs per the deed restriction. The site is located on former industrial lands, totaling approximately 40 acres. Former site uses included operation of a lime plant and EDB manufacturer. The site has undergone remediation over many years and is slated for residential redevelopment.

PCE/ Petroleum Vapor Intrusion Investigation – LUFT Site—San Mateo, CA
Project Manager: This site is a retail gas station with a large, undefined petroleum hydrocarbon plume which comingled with a regional tetrachloroethylene (PCE) plume. The San Mateo County Groundwater Protection Program (GPP) could not rule out the possibility that the gas station onsite had contributed to the PCE plume and named the client as a responsible party for the regional PCE plume. Sub-slab vapor probes in neighboring businesses and homes indicated that PCE, not petroleum, was present at levels exceeding regulatory screening levels. My team used an analysis of local groundwater hydrology, vertical and lateral contaminant distribution, utility maps, and historical regulatory documents from upgradient dry cleaner sites to prove that the PCE source was not on the gas station site, but upgradient from a historical dry cleaner. The regulator accepted the argument, assigned a separate responsible party for the PCE plume.



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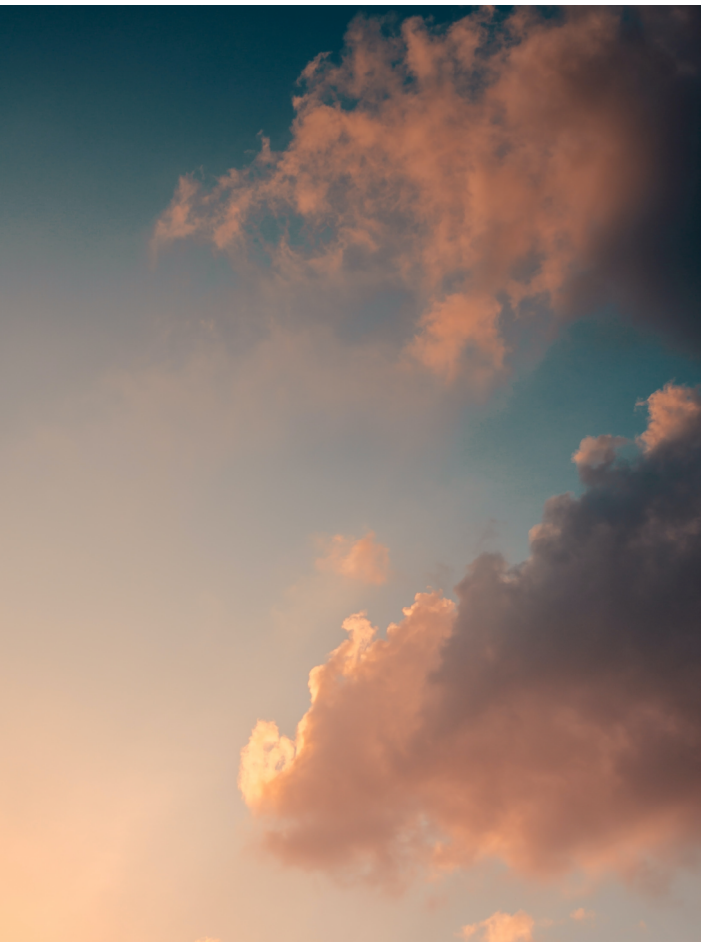
ENGEO
Expect Excellence

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Appendix E. Preliminary Water Quality Management Plan







FUSCOE ENGINEERING

PRELIMINARY WATER QUALITY MANAGEMENT PLAN

CHINO CORPORATE CENTER (PL24-0151)

Southwest of Corporate Center Avenue
Chino, CA 91710

Prepared for: BCT Dev. Acquisition Co, LLC
130 Newport Center Drive, Suite 210
Newport Beach, CA 92660
Ph: 949.444.1595

Project Manager: Carolina Gonzalez



Prepared By
Moyenuddin Sirajee, PE
909.581.0676

Date Prepared: 12.17.24
Date Revised: 02.03.25

Project Number: 4200-001

FUSCOE ENGINEERING, INC.
3257 E Guasti Rd. Suite 300
Ontario, CA 91761

www.fuscoe.com

Preliminary
Water Quality Management Plan

For:

Chino Corporate Center

Southwest of Corporate Center Ave., Chino, CA 91710

PARCEL 5 OF PM 11804, PARCEL 2 OF PM 15863

PL24-0151

Prepared for:

BCT Dev. Acquisition Co, LLC

130 Newport Center Drive, Suite 210

Newport Beach, CA 92660

Phone: 949.444.1595

Prepared by:

Fuscoe Engineering, Inc.

3257 E. Guasti Rd.

Ontario, CA 91761

909.581.0676

Submittal Date: 12.16.24

Revision Date: 2.03.25

Approval Date:_____

Project Owner's Certification

This Water Quality Management Plan (WQMP) has been prepared for BCT Dev. Acquisition Co, LLC by Fuscoe Engineering. The WQMP is intended to comply with the requirements of the Santa Ana Regional Water Control Board and the NPDES Areawide Stormwater Program requiring the preparation of a WQMP. The undersigned, while it owns the subject property, is responsible for the implementation of the provisions of this plan and will ensure that this plan is amended as appropriate to reflect up-to-date conditions on the site consistent with San Bernardino County's Municipal Storm Water Management Program and the intent of the NPDES Permit for San Bernardino County and the incorporated cities of San Bernardino County within the Santa Ana Region. Once the undersigned transfers its interest in the property, its successors in interest and the city/county shall be notified of the transfer. The new owner will be informed of its responsibility under this WQMP. A copy of the approved WQMP shall be available on the subject site in perpetuity.

"I certify under a penalty of law that the provisions (implementation, operation, maintenance, and funding) of the WQMP have been accepted and that the plan will be transferred to future successors."

.

Project Data			
Permit/Application Number(s):	PL24-0151	Grading Permit Number(s):	TBD
Tract/Parcel Map Number(s):	Parcel 5 of PM 11804, Parcel 2 of PM 15863	Building Permit Number(s):	TBD
CUP, SUP, and/or APN (Specify Lot Numbers if Portions of Tract):			APN: 1025-211-29

Owner's Signature			
Owner Name: Karen Alves			
Title	Vice President of Development		
Company	BCT Dev. Acquisition Co, LLC		
Address	130 Newport Center Drive, Suite 21, Newport Beach, CA 92660		
Email	kalves@cherrytreecp.com		
Telephone #	209.777.9259		
Signature		Date	

Preparer's Certification

Project Data			
Permit/Application Number(s):	PL24-0151	Grading Permit Number(s):	TBD
Tract/Parcel Map Number(s):	Parcel 5 of PM 11804, Parcel 2 of PM 15863	Building Permit Number(s):	TBD
CUP, SUP, and/or APN (Specify Lot Numbers if Portions of Tract):			APN: 1025-211-29

"The selection, sizing and design of stormwater treatment and other stormwater quality and quantity control measures in this plan were prepared under my oversight and meet the requirements of Regional Water Quality Control Board Order No. R8-2010-0036."

Engineer: Moyenuddin Sirajee		PE Stamp Below
Title	Senior Engineer	
Company	Fuscoe Engineering, Inc.	
Address	3257 E. Guasti Rd., Ontario, CA 91761	
Email	msirajee@fuscoe.com	
Telephone #	909.581.6128	
Signature		
Date		

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Insert Appendix Title if Applicable - Otherwise, please delete text

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Insert Appendix Title if Applicable - Otherwise, please delete text

Section 1 Discretionary Permit(s)

Form 1-1 Project Information					
Project Name	Chino Corporate Center				
Project Owner Contact Name:	Karen Alves				
Mailing Address:	130 Newport Center Drive, Suite 210, Newport Beach, CA 92660	E-mail Address:	kalves@cherrytreecp.com	Telephone:	209.777.9259
Permit/Application Number(s):	PL24-0151		Tract/Parcel Map Number(s):	Parcel 5 of PM 11804, Parcel 2 of PM 15863	
Additional Information/ Comments:					
Description of Project:	The proposed Chino Corporate Center project is located southwest of Corporate Center Avenue. It is currently undeveloped with a gross area of approximately 4.12 acres of disturbance. The existing site is relatively flat sheet flowing towards south and southeasterly direction towards adjacent properties. The proposed development will include the construction of an apartment complex with its amenities, drive aisles, landscaping, parking areas and dry/wet utilities. Proposed Drainage Conditions: On site runoff will be intercepted by series of catch basins which then drain into a proposed underground infiltration basin (Underground storage chamber to mitigate Water Quality and Hydromidification (HMOD) requirements) and then through underground storm drain system and flow control structure into the existing storm drain system located under Corporate Center Avenue. Runoff then conveyed through the City drainage system under Ramona Ave into Chino Creek Reach 2 (Lined channel) and then to Chino Creek Reach 1B (Unlined Channel) in the Prado Area, and ultimately ends in the Prado Flood Control Basin (Reach 3 of the Santa Ana River). The onsite design Infiltration rate with appropriate Factor of Safety determined to be more than 0.33 in/hour. Therefore infiltration BMP's were proposed. As this project drain into unlined Chino Creek Reach 1B, therefore this development will be sujected to Hydromodification mitigation measure. Properly sized proprietary Concrete Underground Chamber will be used to infiltrate project DCV as well as HMOD runoff volume reduction requirements. The Underground Chamber along with Flow Control Structure will be used to detain runoff to mimic predevelopment runoff flow and velocity to mitigate Hydromodification requirements.				
Provide summary of Conceptual WQMP conditions (if previously submitted and approved). Attach complete copy.	N/A.				

Section 2 Project Description

2.1 Project Information

This section of the WQMP should provide the information listed below. The information provided for Conceptual/ Preliminary WQMP should give sufficient detail to identify the major proposed site design and LID BMPs and other anticipated water quality features that impact site planning. Final Project WQMP must specifically identify all BMP incorporated into the final site design and provide other detailed information as described herein.

The purpose of this information is to help determine the applicable development category, pollutants of concern, watershed description, and long term maintenance responsibilities for the project, and any applicable water quality credits. This information will be used in conjunction with the information in Section 3, Site Description, to establish the performance criteria and to select the LID BMP or other BMP for the project or other alternative programs that the project will participate in, which are described in Section 4.

Form 2.1-1 Description of Proposed Project

1 Development Category (Select all that apply):

☐ Significant re-development involving the addition or replacement of 5,000 ft² or more of impervious surface on an already developed site	☒ New development involving the creation of 10,000 ft² or more of impervious surface collectively over entire site	☐ Automotive repair shops with standard industrial classification (SIC) codes 5013, 5014, 5541, 7532- 7534, 7536-7539	☐ Restaurants (with SIC code 5812) where the land area of development is 5,000 ft² or more
☐ Hillside developments of 5,000 ft² or more which are located on areas with known erosive soil conditions or where the natural slope is 25 percent or more	☐ Developments of 2,500 ft² of impervious surface or more adjacent to (within 200 ft) or discharging directly into environmentally sensitive areas or waterbodies listed on the CWA Section 303(d) list of impaired waters.	☒ Parking lots of 5,000 ft² or more exposed to storm water	☐ Retail gasoline outlets that are either 5,000 ft² or more, or have a projected average daily traffic of 100 or more vehicles per day

☐ Non-Priority / Non-Category Project *May require source control LID BMPs and other LIP requirements. Please consult with local jurisdiction on specific requirements*.

2 Project Area (ft2):	179620	**3** Number of Dwelling Units:		**4** SIC Code:	1522

5 Is Project going to be phased? Yes ☐ No ☒ *If yes, ensure that the WQMP evaluates each phase as a distinct DA, requiring LID BMPs to address runoff at time of completion.*

6 Does Project include roads? Yes ☐ No ☒ *If yes, ensure that applicable requirements for transportation projects are addressed (see Appendix A of TGD for WQMP)*

2.2 Property Ownership/Management

Describe the ownership/management of all portions of the project and site. State whether any infrastructure will transfer to public agencies (City, County, Caltrans, etc.) after project completion. State if a homeowners or property owners association will be formed and be responsible for the long-term maintenance of project stormwater facilities. Describe any lot-level stormwater features that will be the responsibility of individual property owners.

Form 2.2-1 Property Ownership/Management

Describe property ownership/management responsible for long-term maintenance of WQMP stormwater facilities:

Buildings: BCT Dev. Acquisition Co, LLC
Private Lanes and Alleys: BCT Dev. Acquisition Co, LLC
Landscaped Areas: BCT Dev. Acquisition Co, LLC
Storm Drain Devices (Inlets, SD Pipes, Underground Detention Chamber): BCT Dev. Acquisition Co, LLC
Source Control BMPs On-Site (Storm Signage, Full Trash Capture Devices): BCT Dev. Acquisition Co, LLC
Biotreatment BMPs (Modular Wetland): BCT Dev. Acquisition Co, LLC

2.3 Potential Stormwater Pollutants

Determine and describe expected stormwater pollutants of concern based on land uses and site activities (refer to Table 3-3 in the TGD for WQMP).

Form 2.3-1 Pollutants of Concern			
Pollutant	Please check: E=Expected, N=Not Expected		Additional Information and Comments
Pathogens (Bacterial / Virus)	E ☒	N ☐	Wild birds and pet waste, Garbage
Nutrients - Phosphorous	E ☒	N ☐	Fertilizers, Food waste from garbage
Nutrients - Nitrogen	E ☒	N ☐	Fertilizers, Food waste from garbage
Noxious Aquatic Plants	E ☐	N ☒	N/A
Sediment	E ☒	N ☐	Driveway, Rooftop, Sidewalks, Roads and Landscape Areas
Metals	E ☒	N ☐	Cars
Oil and Grease	E ☒	N ☐	Leaking Vehicles
Trash/Debris	E ☒	N ☐	Poorly manage trash containers and vehicle parking
Pesticides / Herbicides	E ☒	N ☐	Landscape Areas
Organic Compounds	E ☒	N ☐	
Other:	E ☐	N ☐	
Other:	E ☐	N ☐	
Other:	E ☐	N ☐	
Other:	E ☐	N ☐	
Other:	E ☐	N ☐	

2.4 Water Quality Credits

A water quality credit program is applicable for certain types of development projects if it is not feasible to meet the requirements for on-site LID. Proponents for eligible projects, as described below, can apply for water quality credits that would reduce project obligations for selecting and sizing other treatment BMP or participating in other alternative compliance programs. Refer to Section 6.2 in the TGD for WQMP to determine if water quality credits are applicable for the project.

Form 2.4-1 Water Quality Credits

1 Project Types that Qualify for Water Quality Credits: *Select all that apply*			
☐ Redevelopment projects that reduce the overall impervious footprint of the project site. [Credit = % impervious reduced]	Higher density development projects ☐ Vertical density [20%] ☐ 7 units/ acre [5%]	☐ Mixed use development, (combination of residential, commercial, industrial, office, institutional, or other land uses which incorporate design principles that demonstrate environmental benefits not realized through single use projects) [20%]	☐ Brownfield redevelopment (redevelop real property complicated by presence or potential of hazardous contaminants) [25%]
☐ Redevelopment projects in established historic district, historic preservation area, or similar significant core city center areas [10%]	☐ Transit-oriented developments (mixed use residential or commercial area designed to maximize access to public transportation) [20%]	☐ In-fill projects (conversion of empty lots & other underused spaces < 5 acres, substantially surrounded by urban land uses, into more beneficially used spaces, such as residential or commercial areas) [10%]	☐ Live-Work developments (variety of developments designed to support residential and vocational needs) [20%]
2 Total Credit % *(Total all credit percentages up to a maximum allowable credit of 50 percent)*			
Description of Water Quality Credit Eligibility (if applicable)			

Section 3 Site and Watershed Description

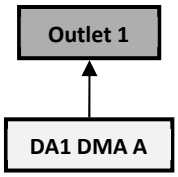
Describe the project site conditions that will facilitate the selection of BMP through an analysis of the physical conditions and limitations of the site and its receiving waters. Identify distinct drainage areas (DA) that collect flow from a portion of the site and describe how runoff from each DA (and sub-watershed DMAs) is conveyed to the site outlet(s). Refer to Section 3.2 in the TGD for WQMP. The form below is provided as an example. Then complete Forms 3.2 and 3.3 for each DA on the project site. ***If the project has more than one drainage area for stormwater management, then complete additional versions of these forms for each DA / outlet.***

Form 3-1 Site Location and Hydrologic Features

Site coordinates *take GPS measurement at approximate center of site*	Latitude 33.985	Longitude -117.7096	Thomas Bros Map page

1 San Bernardino County climatic region: ☒ Valley ☐ Mountain

2 Does the site have more than one drainage area (DA): Yes☐ No☒ *If no, proceed to Form 3-2. If yes, then use this form to show a conceptual schematic describing DMAs and hydrologic feature connecting DMAs to the site outlet(s). An example is provided below that can be modified for proposed project or a drawing clearly showing DMA and flow routing may be attached*



Conveyance	Briefly describe on-site drainage features to convey runoff that is not retained within a DMA
DA1 DMA A to Outlet 1	On site runoff will be intercepted by series of catch basins which then drain into the proposed underground Infiltration and Detention chamber. Then through underground storm drain system leave the site and drain into the existing city maintained storm drain system located under Corporate Center Avenue.
DA1 DMA B to Outlet 1	N/A
DA2 to Outlet 2	N/A

Form 3-2 Existing Hydrologic Characteristics for Drainage Area 1

For Drainage Area 1's sub-watershed DMA, provide the following characteristics	DMA A	DMA B	DMA C	DMA D
1 DMA drainage area (ft^2)	179,620			
2 Existing site impervious area (ft^2)	7,661			
3 Antecedent moisture condition *For desert areas, use* *http://www.sbcounty.gov/dpw/floodcontrol/pdf/20100412_map.pdf*	II			
4 Hydrologic soil group *Refer to Watershed Mapping Tool – http://permitrack.sbcounty.gov/wap/*	B			
5 Longest flowpath length (ft)	579			
6 Longest flowpath slope (ft/ft)	0.011			
7 Current land cover type(s) *Select from Fig C-3 of Hydrology Manual*	Grass			
8 Pre-developed pervious area condition: *Based on the extent of wet season vegetated cover good >75%; Fair 50-75%; Poor <50% Attach photos of site to support rating*	Poor			

Form 3-2 Existing Hydrologic Characteristics for Drainage Area 1 (use only as needed for additional DMA w/in DA 1)				
For Drainage Area 1's sub-watershed DMA, provide the following characteristics	DMA E	DMA F	DMA G	DMA H
1 DMA drainage area (ft^2)				
2 Existing site impervious area (ft^2)				
3 Antecedent moisture condition *For desert areas, use http://www.sbcounty.gov/dpw/floodcontrol/pdf/20100412_map.pdf*				
4 Hydrologic soil group *Refer to Watershed Mapping Tool – http://permitrack.sbcounty.gov/wap/*				
5 Longest flowpath length (ft)				
6 Longest flowpath slope (ft/ft)				
7 Current land cover type(s) *Select from Fig C-3 of Hydrology Manual*				
8 Pre-developed pervious area condition: *Based on the extent of wet season vegetated cover good >75%; Fair 50-75%; Poor <50% Attach photos of site to support rating*				

Form 3-3 Watershed Description for Drainage Area

Receiving waters *Refer to Watershed Mapping Tool - http://permitrack.sbcounty.gov/wap/ See 'Drainage Facilities" link at this website*	Chino Creek Reach 2, Chino Creek, Reach 1B, Santa Ana River Reach 3 Prado Flood Control Basin, Santa Ana River Reach 2, Santa Ana River Reach 1 Pacific Ocean
Applicable TMDLs *Refer to Local Implementation Plan*	Chino Creek, Reach 2: Indicator Bacteria Reach 1B: Indicator Bacteria Santa Ana River, Reach 3: Copper, Lead, Indicator Bacteria Prado Flood Control Basin: pH Santa Ana River Reach 2: None Santa Ana River Reach 1: None Pacific Ocean: None
303(d) listed impairments *Refer to Local Implementation Plan and Watershed Mapping Tool – http://permitrack.sbcounty.gov/wap/ and State Water Resources Control Board website – http://www.waterboards.ca.gov/santaana/water_issues/programs/tmdl/index.shtml*	Chino Creek, Reach 2: Indicator Bacteria Chino Creek, Reach 1B: Indicator Bacteria Santa Ana River, Reach 3: Copper, Lead and Pathogens
Environmentally Sensitive Areas (ESA) *Refer to Watershed Mapping Tool – http://permitrack.sbcounty.gov/wap/*	N/A
Unlined Downstream Water Bodies *Refer to Watershed Mapping Tool – http://permitrack.sbcounty.gov/wap/*	Chino Creek Reach 1B Santa Ana River (Reach 3)
Hydrologic Conditions of Concern	☒ Yes *Complete Hydrologic Conditions of Concern (HCOC) Assessment. Include Forms 4.2-2 through Form 4.2-5 and Hydromodification BMP Form 4.3-10 in submittal* ☐ No
Watershed–based BMP included in a RWQCB approved WAP	☐ Yes *Attach verification of regional BMP evaluation criteria in WAP* • *More Effective than On-site LID* • *Remaining Capacity for Project DCV* • *Upstream of any Water of the US* • *Operational at Project Completion* • *Long-Term Maintenance Plan* ☒ No

Section 4 Best Management Practices (BMP)

4.1 Source Control BMP

4.1.1 Pollution Prevention

Non-structural and structural source control BMP are required to be incorporated into all new development and significant redevelopment projects. Form 4.1-1 and 4.1-2 are used to describe specific source control BMPs used in the WQMP or to explain why a certain BMP is not applicable. Table 7-3 of the TGD for WQMP provides a list of applicable source control BMP for projects with specific types of potential pollutant sources or activities. The source control BMP in this table must be implemented for projects with these specific types of potential pollutant sources or activities.

The preparers of this WQMP have reviewed the source control BMP requirements for new development and significant redevelopment projects. The preparers have also reviewed the specific BMP required for project as specified in Forms 4.1-1 and 4.1-2. All applicable non-structural and structural source control BMP shall be implemented in the project.

Form 4.1-1 Non-Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, if not applicable, state reason
		Included	Not Applicable	
N1	Education of Property Owners, Tenants and Occupants on Stormwater BMPs	☒	☐	The original Owner(s), Developer, and subsequent Management Company shall familiarize themselves with the WQMP document and content, including BMP educational materials in attachment E of this WQMP and the Developer shall ensure that all occupants are educated on stormwater BMPs through the distribution of City outreach literature. The Management Company shall be responsible for ongoing education for new occupants.
N2	Activity Restrictions	☒	☐	Activity restrictions, via CC&Rs and other methods, will be developed that include those that have the potential to create adverse impacts on water quality. Activities include, but are not limited to: handling and disposal of contaminants, fertilizer and pesticide application restrictions, litter control and pick-up, vehicle or equipment repair and maintenance and animal facility uses.
N3	Landscape Management BMPs	☒	☐	The Management Company shall maintain existing drought tolerant plants and landscaping. The Management Company and/or their landscape contractor shall regularly inspect the irrigation system and BMP's installed in landscaping areas for signs of erosion or sediment & debris buildup and clean/repair as needed.
N4	BMP Maintenance	☒	☐	The Management Company will be responsible for maintenance of on-site BMPs as described in Form 5.1 of this document.
N5	Title 22 CCR Compliance (How development will comply)	☐	☒	Occupants will be prohibited in the project's CC&Rs from storing hazardous materials or waste on site. If they do store these materials, they must comply with all Title 22 CCR regulations.
N6	Local Water Quality Ordinances	☒	☐	The Management Company and the occupants shall comply with the City of Chino's stormwater ordinance through the implementation of BMPs
N7	Spill Contingency Plan	☐	☒	Project site is a residential area and does not require a spill contingency plan.

Form 4.1-1 Non-Structural Source Control BMPs				
N8	Underground Storage Tank Compliance	☐	☒	No underground storage tanks are proposed.
N9	Hazardous Materials Disclosure Compliance	☐	☒	Hazardous materials will not be stored on-site.

Form 4.1-1 Non-Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, if not applicable, state reason
		Included	Not Applicable	
N10	Uniform Fire Code Implementation	☒	☐	Compliance with Article 80 of the Uniform Fire Code enforced by the fire protection agency will be upheld.
N11	Litter/Debris Control Program	☒	☐	The Management Company shall be responsible for trash and litter collection from common areas of the site and proper disposal. The Management Company shall contract with the City of Ontario Solid Waste to empty trash bins in a weekly basis. Additionally ground maintenance personnel shall police common areas for any litter. Violations, of improper material disposal, shall be reported to the Management Company for investigation.
N12	Employee Training	☒	☐	The Management Company, shall establish an education program for site employees and contractors to inform and train personnel engaged in maintenance activities regarding the impact of dumping oil, paint, solvents or other potentially harmful chemicals into the storm drain system; the proper use of fertilizers and pesticides in landscaping maintenance practices; and the impacts of littering and improper collection of landscape maintenance waste including vegetative cuttings and mowing, as well as improper wastewater disposal.
N13	Housekeeping of Loading Docks	☐	☒	Loading docks are not proposed for this project.
N14	Catch Basin Inspection Program	☒	☐	The Management Company will ensure that 100% of the on-site private catch basins and storm drains are inspected, cleaned and maintained on an annual basis. Private drainage facilities include catch basins (storm drain inlets), and storm drain lines. The Management Company shall maintain all underground detention basins and private storm drain lines where aplicable. Records should be kept to document the annual maintenance
N15	Vacuum Sweeping of Private Streets and Parking Lots	☒	☐	The Management Company, through its landscape or other maintenance contractor, shall sweep all private lanes within the project bi-monthly (Twice a month), or more if often needed. Debris, sediment and trash picked up during sweeping operations will be deposited off-site.

N16	Other Non-structural Measures for Public Agency Projects	☐	☒	Not a public agency projects associated, this is a private project.
N17	Comply with all other applicable NPDES permits	☒	☐	Since construction will be greater than 1 acre, project will apply for coverage under the General Construction Permit, SWRCB Order No. 2009-0009-DWQ prior to start of land disturbing activities.

Form 4.1-2 Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, If not applicable, state reason
		Included	Not Applicable	
S1	Provide storm drain system stencilling and signage (CASQA New Development BMP Handbook SD-13)	☒	☐	Storm drain signage is to be placed directly adjacent to all storm drain inlets. Stenciling and signage should meet the following requirements and be shown on the project plans: 1. Almetek plaques shall include prohibitive language: "NO DUMPING – DRAINS TO RIVER" and include graphical icons to discourage illegal dumping. 2. The installed Almetek plaques will be maintained by The Management Company.
S2	Design and construct outdoor material storage areas to reduce pollution introduction (CASQA New Development BMP Handbook SD-34)	☐	☒	No outdoor material storage areas are proposed.
S3	Design and construct trash and waste storage areas to reduce pollution introduction (CASQA New Development BMP Handbook SD-32)	☒	☐	Trash will be handled by each occupant. The designated common trash storage area shall be used to disposed trash.
S4	Use efficient irrigation systems & landscape design, water conservation, smart controllers, and source control (Statewide Model Landscape Ordinance; CASQA New Development BMP Handbook SD-12)	☒	☐	The irrigation system will include devices to prevent low head drainage, overspray and runoff through the use of pressure regulating devices, checks valves, rain shutoff valves, pressure drop sensors, proper spacing, low precipitation emission devices and ET oi weather based controllers. Landscape irrigation shall be consistent with the State Model Water Efficient Landscape Ordinance and the City of Chino Landscape Development Standards. Plants install will be arranged according to similar hydrozones and meeting the required water budget for the site. Landscape areas used for water quality swales or infiltration areas shall have proper plants for saturated soils, drought tolerance and erosion control qualities. Shade trees shall be used to intercept rainwater and reduce heat gain on paving.
S5	Finish grade of landscaped areas at a minimum of 1-2 inches below top of curb, sidewalk, or pavement	☒	☐	All landscape areas to comply with depressed landscape requirements.

S6	Protect slopes and channels and provide energy dissipation (CASQA New Development BMP Handbook SD-10)	☐	☒	Slopes or channels are not proposed.
S7	Covered dock areas (CASQA New Development BMP Handbook SD-31)	☐	☒	Dock areas are not proposed.
S8	Covered maintenance bays with spill containment plans (CASQA New Development BMP Handbook SD-31)	☐	☒	No maintenance bays are proposed.
S9	Vehicle wash areas with spill containment plans (CASQA New Development BMP Handbook SD-33)	☐	☒	No vehicle wash areas are proposed.
S10	Covered outdoor processing areas (CASQA New Development BMP Handbook SD-36)	☐	☒	No outdoor processing areas are proposed.

Form 4.1-2 Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, If not applicable, state reason
		Included	Not Applicable	
S11	Equipment wash areas with spill containment plans (CASQA New Development BMP Handbook SD-33)	☐	☒	No equipment wash areas are proposed.
S12	Fueling areas (CASQA New Development BMP Handbook SD-30)	☐	☒	No fueling areas are proposed.
S13	Hillside landscaping (CASQA New Development BMP Handbook SD-10)	☐	☒	Project is not located in a hillside area.
S14	Wash water control for food preparation areas	☐	☒	No food preparation areas are proposed.
S15	Community car wash racks (CASQA New Development BMP Handbook SD-33)	☐	☒	No community car wash racks are proposed.

4.1.2 Preventative LID Site Design Practices

Site design practices associated with new LID requirements in the MS4 Permit should be considered in the earliest phases of a project. Preventative site design practices can result in smaller DCV for LID BMP and hydromodification control BMP by reducing runoff generation. Describe site design and drainage plan including:

- A narrative of site design practices utilized or rationale for not using practices
- A narrative of how site plan incorporates preventive site design practices
- Include an attached Site Plan layout which shows how preventative site design practices are included in WQMP

Refer to Section 5.2 of the TGD for WQMP for more details.

Form 4.1-3 Preventative LID Site Design Practices Checklist

Site Design Practices *If yes, explain how preventative site design practice is addressed in project site plan. If no, other LID BMPs must be selected to meet targets*
Minimize impervious areas: Yes ☒ No ☐ Explanation: The project has been designed to minimize project imperviousness by proposing drive aisle width, sidewalk etc. to a minimum width as required by the city. Also, landscape and pervious area are proposed
Maximize natural infiltration capacity: Yes ☐ No ☒ Explanation: The underlying soils for the site comprises low permeability rate (Type C) thus by restricting location of the constructed element will not make much difference. However landscape and pervious area are proposed and thus natural infiltration capacity will be maintained as practically as possible.
Preserve existing drainage patterns and time of concentration: Yes ☒ No ☐ Explanation: At current condition the site drain into adjacent property and then to publicly maintained street and then to the city-maintained storm drain system. In developed condition, the site will drain directly into the city-maintained storm drain system. Thus, this development will preserve existing drainage patterns.
Disconnect impervious areas: Yes ☒ No ☐ Explanation: Runoff from roof and some of the impervious areas will drain to landscaped area, where it will allow for detention and some percolation into the sub-soils at natural rates.
Protect existing vegetation and sensitive areas: Yes ☐ No ☒ Explanation: There are no natural areas to conserve. However, native and/or drought-tolerant landscaping will be provided around the perimeter of the site.
Re-vegetate disturbed areas: Yes ☒ No ☐ Explanation: All disturbed areas will either be paved or landscaped.
Minimize unnecessary compaction in stormwater retention/infiltration basin/trench areas: Yes ☒ No ☐ Explanation: The bottom of the infiltration facilities will be placed on natural ground.
Utilize vegetated drainage swales in place of underground piping or imperviously lined swales: Yes ☐ No ☒ Explanation: Vegetated swales area not proposed for this project.
Stake off areas that will be used for landscaping to minimize compaction during construction : Yes ☐ No ☒ Explanation: This project will be mass grading operation of the entire site. Thus, practically it is impossible to stake off future landscaped area.

4.2 Project Performance Criteria

The purpose of this section of the Project WQMP is to establish targets for post-development hydrology based on performance criteria specified in the MS4 Permit. These targets include runoff volume for water quality control (referred to as LID design capture volume), and runoff volume, time of concentration, and peak runoff for protection of any downstream waterbody segments with a HCOC. ***If the project has more than one outlet for stormwater runoff, then complete additional versions of these forms for each DA / outlet.***

Methods applied in the following forms include:

- For LID BMP Design Capture Volume (DCV), the San Bernardino County Stormwater Program requires use of the P_6 method (MS4 Permit Section XI.D.6a.ii) – Form 4.2-1
- For HCOC pre- and post-development hydrologic calculation, the San Bernardino County Stormwater Program requires the use of the Rational Method (San Bernardino County Hydrology Manual Section D). Forms 4.2-2 through Form 4.2-5 calculate hydrologic variables including runoff volume, time of concentration, and peak runoff from the project site pre- and post-development using the Hydrology Manual Rational Method approach. For projects greater than 640 acres (1.0 mi^2), the Rational Method and these forms should not be used. For such projects, the Unit Hydrograph Method (San Bernardino County Hydrology Manual Section E) shall be applied for hydrologic calculations for HCOC performance criteria.

Refer to Section 4 in the TGD for WQMP for detailed guidance and instructions.

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume (DA 1)

1 Project area DA 1 (ft^2): 179620	**2** Imperviousness after applying preventative site design practices (Imp%): 88%	**3** Runoff Coefficient (Rc): _0.701 *$R_c = 0.858(Imp\%)^{\wedge 3} - 0.78(Imp\%)^{\wedge 2} + 0.774(Imp\%) + 0.04$*
4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.586 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html		
5 Compute P_6, Mean 6-hr Precipitation (inches): 0.868 *P_6 = Item 4 *C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*		
6 Drawdown Rate *Use 48 hours as the default condition. Selection and use of the 24 hour drawdown time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.*		24-hrs ☐ 48-hrs ☒
7 Compute design capture volume, DCV (ft^3): 17,865 *DCV = 1/12 * [Item 1* Item 3 *Item 5 * C_2], where C_2 is a function of drawdown rate (24-hr = 1.582; 48-hr = 1.963)* *Compute separate DCV for each outlet from the project site per schematic drawn in Form 3-1 Item 2*		

Form 4.2-2 Summary of HCOC Assessment (DA 1)

Does project have the potential to cause or contribute to an HCOC in a downstream channel: Yes ☒ No ☐

Go to: *http://permitrack.sbcounty.gov/wap/*

If "Yes", then complete HCOC assessment of site hydrology for 2yr storm event using Forms 4.2-3 through 4.2-5 and insert results below

(Forms 4.2-3 through 4.2-5 may be replaced by computer software analysis based on the San Bernardino County Hydrology Manual)

If "No," then proceed to Section 4.3 Project Conformance Analysis

Condition	Runoff Volume (ft^3)	Time of Concentration (min)	Peak Runoff (cfs)
Pre-developed	**1** 7,998 *Form 4.2-3 Item 12*	**2** 15.75 *Form 4.2-4 Item 13*	**3** 2.52 *Form 4.2-5 Item 10*
Post-developed	**4** 34,809 *Form 4.2-3 Item 13*	**5** 8.04 *Form 4.2-4 Item 14*	**6** 6.76 *Form 4.2-5 Item 14*
Difference	**7** *26,811* *Item 4 – Item 1*	**8** *7.71* *Item 2 – Item 5*	**9** *4.24* *Item 6 – Item 3*
Difference (as % of pre-developed)	**10** *335.24%* *Item 7 / Item 1*	**11** *48.95%* *Item 8 / Item 2*	**12** *168.25%* *Item 9 / Item 3*

Note: ***The summary shown above in Form 4.2-2 and the calculation on Form 4.2-3 through 4.2-5 were replaced with the calculation on the computer software based on San Bernardino County Hydrology Manual. These calculations can be found in Section 6.4 of this report.***

Form 4.2-3 HCOC Assessment for Runoff Volume (DA 1) Not Used

Weighted Curve Number Determination for: Pre-developed DA	DMA A	DMA B	DMA C	DMA D	DMA E	DMA F	DMA G	DMA H
1a Land Cover type								
2a Hydrologic Soil Group (HSG)								
3a DMA Area, ft^2 *sum of areas of DMA should equal area of DA*								
4a Curve Number (CN) *use Items 1 and 2 to select the appropriate CN from Appendix C-2 of the TGD for WQMP*								
Weighted Curve Number Determination for: Post-developed DA	DMA A	DMA B	DMA C	DMA D	DMA E	DMA F	DMA G	DMA H
1b Land Cover type								
2b Hydrologic Soil Group (HSG)								
3b DMA Area, ft^2 *sum of areas of DMA should equal area of DA*								
4b Curve Number (CN) *use Items 5 and 6 to select the appropriate CN from Appendix C-2 of the TGD for WQMP*								

5 Pre-Developed area-weighted CN:	**7** Pre-developed soil storage capacity, S (in): *S = (1000 / Item 5) - 10*	**9** Initial abstraction, I_a (in): *I_a = 0.2 * Item 7*
6 Post-Developed area-weighted CN:	**8** Post-developed soil storage capacity, S (in): *S = (1000 / Item 6) - 10*	**10** Initial abstraction, I_a (in): *I_a = 0.2 * Item 8*

11 Precipitation for 2 yr, 24 hr storm (in):
Go to: http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

12 Pre-developed Volume (ft^3):
*V_{pre} =(1 / 12) * (Item sum of Item 3) * [(Item 11 – Item 9)^2 / ((Item 11 – Item 9 + Item 7)*

13 Post-developed Volume (ft^3):
*V_{pre} =(1 / 12) * (Item sum of Item 3) * [(Item 11 – Item 10)^2 / ((Item 11 – Item 10 + Item 8)*

14 Volume Reduction needed to meet HCOC Requirement, (ft^3):
*V_{HCOC} = (Item 13 * 0.95) – Item 12*

Form 4.2-4 HCOC Assessment for Time of Concentration (DA 1) Not Used

Compute time of concentration for pre and post developed conditions for each DA *(For projects using the Hydrology Manual complete the form below)*

Variables	Pre-developed DA1 *Use additional forms if there are more than 4 DMA*				Post-developed DA1 *Use additional forms if there are more than 4 DMA*			
	DMA A	DMA B	DMA C	DMA D	DMA A	DMA B	DMA C	DMA D
1 Length of flowpath (ft) *Use Form 3-2 Item 5 for pre-developed condition*								
2 Change in elevation (ft)								
3 Slope (ft/ft), S_o *= Item 2 / Item 1*								
4 Land cover								
5 Initial DMA Time of Concentration (min) *Appendix C-1 of the TGD for WQMP*								
6 Length of conveyance from DMA outlet to project site outlet (ft) *May be zero if DMA outlet is at project site outlet*								
7 Cross-sectional area of channel (ft^2)								
8 Wetted perimeter of channel (ft)								
9 Manning's roughness of channel (n)								
10 Channel flow velocity (ft/sec) V_{fps} *= (1.49 / Item 9) * (Item 7/Item 8)^0.67 * (Item 3)^0.5*								
11 Travel time to outlet (min) T_t *= Item 6 / (Item 10 * 60)*								
12 Total time of concentration (min) T_c *= Item 5 + Item 11*								
13 Pre-developed time of concentration (min): *Minimum of Item 12 pre-developed DMA*								
14 Post-developed time of concentration (min): *Minimum of Item 12 post-developed DMA*								
15 Additional time of concentration needed to meet HCOC requirement (min): $T_{C\text{-}HCOC}$ *= (Item 13 * 0.95) – Item 14*								

Form 4.2-5 HCOC Assessment for Peak Runoff (DA 1) Not Used

Compute peak runoff for pre- and post-developed conditions

Variables		Pre-developed DA to Project Outlet (*Use additional forms if more than 3 DMA)*			Post-developed DA to Project Outlet (*Use additional forms if more than 3 DMA)*		
		DMA A	DMA B	DMA C	DMA A	DMA B	DMA C
1 Rainfall Intensity for storm duration equal to time of concentration *I_{peak} = 10^(LOG Form 4.2-1 Item 4 - 0.6 LOG Form 4.2-4 Item 5 /60)*							
2 Drainage Area of each DMA (Acres) *For DMA with outlet at project site outlet, include upstream DMA (Using example schematic in Form 3-1, DMA A will include drainage from DMA C)*							
3 Ratio of pervious area to total area *For DMA with outlet at project site outlet, include upstream DMA (Using example schematic in Form 3-1, DMA A will include drainage from DMA C)*							
4 Pervious area infiltration rate (in/hr) *Use pervious area CN and antecedent moisture condition with Appendix C-3 of the TGD for WQMP*							
5 Maximum loss rate (in/hr) *F_m = Item 3 * Item 4* *Use area-weighted F_m from DMA with outlet at project site outlet, include upstream DMA (Using example schematic in Form 3-1, DMA A will include drainage from DMA C)*							
6 Peak Flow from DMA (cfs) *Q_p =Item 2 * 0.9 * (Item 1 - Item 5)*							
7 Time of concentration adjustment factor for other DMA to site discharge point *Form 4.2-4 Item 12 DMA / Other DMA upstream of site discharge point (If ratio is greater than 1.0, then use maximum value of 1.0)*	DMA A	*n/a*			*n/a*		
	DMA B		*n/a*			*n/a*	
	DMA C			*n/a*			*n/a*

8 Pre-developed Q_p at T_c for DMA A: *Q_p = Item 6_{DMAA} + [Item 6_{DMAB} * (Item 1_{DMAA} - Item 5_{DMAB})/(Item 1_{DMAB} - Item 5_{DMAB})* Item $7_{DMAA/2}$] + [Item 6_{DMAC} * (Item 1_{DMAA} - Item 5_{DMAC})/(Item 1_{DMAC} - Item 5_{DMAC})* Item $7_{DMAA/3}$]*	**9** Pre-developed Q_p at T_c for DMA B: *Q_p = Item 6_{DMAB} + [Item 6_{DMAA} * (Item 1_{DMAB} - Item 5_{DMAA})/(Item 1_{DMAA} - Item 5_{DMAA})* Item $7_{DMAB/1}$] + [Item 6_{DMAC} * (Item 1_{DMAB} - Item 5_{DMAC})/(Item 1_{DMAC} - Item 5_{DMAC})* Item $7_{DMAB/3}$]*	**10** Pre-developed Q_p at T_c for DMA C: *Q_p = Item 6_{DMAC} + [Item 6_{DMAA} * (Item 1_{DMAC} - Item 5_{DMAA})/(Item 1_{DMAA} - Item 5_{DMAA})* Item $7_{DMAC/1}$] + [Item 6_{DMAB} * (Item 1_{DMAC} - Item 5_{DMAB})/(Item 1_{DMAB} - Item 5_{DMAB})* Item $7_{DMAC/2}$]*
10 Peak runoff from pre-developed condition confluence analysis (cfs): *Maximum of Item 8, 9, and 10 (including additional forms as needed)*		
11 Post-developed Q_p at T_c for DMA A: *Same as Item 8 for post-developed values*	**12** Post-developed Q_p at T_c for DMA B: *Same as Item 9 for post-developed values*	**13** Post-developed Q_p at T_c for DMA C: *Same as Item 10 for post-developed values*
14 Peak runoff from post-developed condition confluence analysis (cfs): *Maximum of Item 11, 12, and 13 (including additional forms as needed)*		
15 Peak runoff reduction needed to meet HCOC Requirement (cfs): $Q_{p\text{-}HCOC}$ = *(Item 14 * 0.95) – Item 10*		

4.3 Project Conformance Analysis

Complete the following forms for each project site DA to document that the proposed LID BMPs conform to the project DCV developed to meet performance criteria specified in the MS4 Permit (WQMP Template Section 4.2). For the LID DCV, the forms are ordered according to hierarchy of BMP selection as required by the MS4 Permit (see Section 5.3.1 in the TGD for WQMP). The forms compute the following for on-site LID BMP:

- Site Design and Hydrologic Source Controls (Form 4.3-2)
- Retention and Infiltration (Form 4.3-3)
- Harvested and Use (Form 4.3-4) or
- Biotreatment (Form 4.3-5).

At the end of each form, additional fields facilitate the determination of the extent of mitigation provided by the specific BMP category, allowing for use of the next category of BMP in the hierarchy, if necessary.

The first step in the analysis, using Section 5.3.2.1 of the TGD for WQMP, is to complete Forms 4.3-1 and 4.3-3) to determine if retention and infiltration BMPs are infeasible for the project. For each feasibility criterion in Form 4.3-1, if the answer is "Yes," provide all study findings that includes relevant calculations, maps, data sources, etc. used to make the determination of infeasibility.

Next, complete Forms 4.3-2 and 4.3-4 to determine the feasibility of applicable HSC and harvest and use BMPs, and, if their implementation is feasible, the extent of mitigation of the DCV.

If no site constraints exist that would limit the type of BMP to be implemented in a DA, evaluate the use of combinations of LID BMPs, including all applicable HSC BMPs to maximize on-site retention of the DCV. If no combination of BMP can mitigate the entire DCV, implement the single BMP type, or combination of BMP types, that maximizes on-site retention of the DCV within the minimum effective area.

If the combination of LID HSC, retention and infiltration, and harvest and use BMPs are unable to mitigate the entire DCV, then biotreatment BMPs may be implemented by the project proponent. If biotreatment BMPs are used, then they must be sized to provide sufficient capacity for effective treatment of the remainder of the volume-based performance criteria that cannot be achieved with LID BMPs (TGD for WQMP Section 5.4.4.2). **Under no circumstances shall any portion of the DCV be released from the site without effective mitigation and/or treatment**.

Form 4.3-1 Infiltration BMP Feasibility (DA 1)

Feasibility Criterion – Complete evaluation for each DA on the Project Site

[1] Would infiltration BMP pose significant risk for groundwater related concerns? Yes ☐ No ☒
Refer to Section 5.3.2.1 of the TGD for WQMP

If Yes, Provide basis: (attach)

[2] Would installation of infiltration BMP significantly increase the risk of geotechnical hazards? Yes ☐ No ☒
(Yes, if the answer to any of the following questions is yes, as established by a geotechnical expert):

- The location is less than 50 feet away from slopes steeper than 15 percent
- The location is less than eight feet from building foundations or an alternative setback.
- A study certified by a geotechnical professional or an available watershed study determines that stormwater infiltration would result in significantly increased risks of geotechnical hazards.

If Yes, Provide basis: (attach)

[3] Would infiltration of runoff on a Project site violate downstream water rights? Yes ☐ No ☒

If Yes, Provide basis: (attach)

[4] Is proposed infiltration facility located on hydrologic soil group (HSG) D soils or does the site geotechnical investigation indicate presence of soil characteristics, which support categorization as D soils? Yes ☐ No ☒

If Yes, Provide basis: (attach)

[5] Is the design infiltration rate, after accounting for safety factor of 2.0, below proposed facility less than 0.3 in/hr (accounting for soil amendments)? Yes ☐ No ☒

If Yes, Provide basis: (attach) Please see site Infiltration test result and design infiltration rate calculation.

[6] Would on-site infiltration or reduction of runoff over pre-developed conditions be partially or fully inconsistent with watershed management strategies as defined in the WAP, or impair beneficial uses? Yes ☐ No ☒
See Section 3.5 of the TGD for WQMP and WAP

If Yes, Provide basis: (attach)

[7] Any answer from Item 1 through Item 3 is "Yes": Yes ☐ No ☒
If yes, infiltration of any volume is not feasible onsite. Proceed to Form 4.3-4, Harvest and Use BMP. If no, then proceed to Item 8 below.

[8] Any answer from Item 4 through Item 6 is "Yes": Yes ☐ No ☒
If yes, infiltration is permissible but is not required to be considered. Proceed to Form 4.3-2, Hydrologic Source Control BMP.
If no, then proceed to Item 9, below.

[9] All answers to Item 1 through Item 6 are "No":
Infiltration of the full DCV is potentially feasible, LID infiltration BMP must be designed to infiltrate the full DCV to the MEP.
Proceed to Form 4.3-2, Hydrologic Source Control BMP.

4.3.1 Site Design Hydrologic Source Control BMP

Section XI.E. of the Permit emphasizes the use of LID preventative measures; and the use of LID HSC BMPs reduces the portion of the DCV that must be addressed in downstream BMPs. Therefore, all applicable HSC shall be provided except where they are mutually exclusive with each other, or with other BMPs. Mutual exclusivity may result from overlapping BMP footprints such that either would be potentially feasible by itself, but both could not be implemented. Please note that while there are no numeric standards regarding the use of HSC, if a project cannot feasibly meet BMP sizing requirements or cannot fully address HCOCs, feasibility of all applicable HSC must be part of demonstrating that the BMP system has been designed to retain the maximum feasible portion of the DCV. Complete Form 4.3-2 to identify and calculate estimated retention volume from implementing site design HSC BMP. Refer to Section 5.4.1 in the TGD for more detailed guidance.

Form 4.3-2 Site Design Hydrologic Source Control BMPs (DA 1)

1 Implementation of Impervious Area Dispersion BMP (i.e. routing runoff from impervious to pervious areas), excluding impervious areas planned for routing to on-lot infiltration BMP: Yes ☐ No ☒ *If yes, complete Items 2-5; If no, proceed to Item 6*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
2 Total impervious area draining to pervious area (ft^2)			
3 Ratio of pervious area receiving runoff to impervious area			
4 Retention volume achieved from impervious area dispersion (ft^3) *V = Item2 * Item 3 * (0.5/12), assuming retention of 0.5 inches of runoff*			
5 Sum of retention volume achieved from impervious area dispersion (ft^3): *$V_{retention}$ =Sum of Item 4 for all BMPs*			
6 Implementation of Localized On-lot Infiltration BMPs (e.g. on-lot rain gardens): Yes ☐ No ☒ *If yes, complete Items 7-13 for aggregate of all on-lot infiltration BMP in each DA; If no, proceed to Item 14*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
7 Ponding surface area (ft^2)			
8 Ponding depth (ft)			
9 Surface area of amended soil/gravel (ft^2)			
10 Average depth of amended soil/gravel (ft)			
11 Average porosity of amended soil/gravel			
12 Retention volume achieved from on-lot infiltration (ft^3) *$V_{retention}$ = (Item 7 *Item 8) + (Item 9 * Item 10 * Item 11)*			
13 Runoff volume retention from on-lot infiltration (ft^3): 0 *$V_{retention}$ =Sum of Item 12 for all BMPs*			

Form 4.3-2 Site Design Hydrologic Source Control BMPs (DA 1)

Form 4.3-2 cont. Site Design Hydrologic Source Control BMPs (DA 1)

14 Implementation of evapotranspiration BMP (green, brown, or blue roofs): Yes ☐ No ☒ *If yes, complete Items 15-20. If no, proceed to Item 21*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
15 Rooftop area planned for ET BMP (ft^2)			
16 Average wet season ET demand (in/day) *Use local values, typical ~ 0.1*			
17 Daily ET demand (ft^3/day) *Item 15 * (Item 16 / 12)*			
18 Drawdown time (hrs) *Copy Item 6 in Form 4.2-1*			
19 Retention Volume (ft^3) $V_{retention}$ *= Item 17 * (Item 18 / 24)*			
20 Runoff volume retention from evapotranspiration BMPs (ft^3): $V_{retention}$ *=Sum of Item 19 for all BMPs*			
21 Implementation of Street Trees: Yes ☐ No ☒ *If yes, complete Items 22-25. If no, proceed to Item 26*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
22 Number of Street Trees			
23 Average canopy cover over impervious area (ft^2)			
24 Runoff volume retention from street trees (ft^3) $V_{retention}$ *= Item 22 * Item 23 * (0.05/12) assume runoff retention of 0.05 inches*			
25 Runoff volume retention from street tree BMPs (ft^3): $V_{retention}$ *= Sum of Item 24 for all BMPs*			
26 Implementation of residential rain barrel/cisterns: Yes ☐ No ☒ *If yes, complete Items 27-29; If no, proceed to Item 30*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
27 Number of rain barrels/cisterns			
28 Runoff volume retention from rain barrels/cisterns (ft^3) $V_{retention}$ *= Item 27 * 3*			
29 Runoff volume retention from residential rain barrels/Cisterns (ft3): $V_{retention}$ *=Sum of Item 28 for all BMPs*			
30 Total Retention Volume from Site Design Hydrologic Source Control BMPs: 0 *Sum of Items 5, 13, 20, 25 and 29*			

4.3.2 Infiltration BMPs

Form 4.3-3 Infiltration LID BMP - including underground BMPs (DA 1)

1 Remaining LID DCV not met by site design HSC BMP (ft^3): 17,865 *V_{unmet} = Form 4.2-1 Item 7 - Form 4.3-2 Item 30*			
BMP Type *Use columns to the right to compute runoff volume retention from proposed infiltration BMP (select BMP from Table 5-4 in TGD for WQMP) - Use additional forms for more BMPs*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
2 Infiltration rate of underlying soils (in/hr) *See Section 5.4.2 and Appendix D of the TGD for WQMP for minimum requirements for assessment methods*	1 to 3		
3 Infiltration safety factor *See TGD Section 5.4.2 and Appendix D*	2.5		
4 Design percolation rate (in/hr) *P_{design} = Item 2 / Item 3*	0.80		
5 Ponded water drawdown time (hr) *Copy Item 6 in Form 4.2-1*	48		
6 Maximum ponding depth (ft) *BMP specific, see Table 5-4 of the TGD for WQMP for BMP design details*	3.2		
7 Ponding Depth (ft) *d_{BMP} = Minimum of (1/12*Item 4*Item 5) or Item 6*	3.2		
8 Infiltrating surface area, SA_{BMP} (ft^2) *the lesser of the area needed for infiltration of full DCV or minimum space requirements from Table 5.7 of the TGD for WQMP*	N/A		
9 Amended soil depth, d_{media} (ft) *Only included in certain BMP types, see Table 5-4 in the TGD for WQMP for reference to BMP design details*	N/A		
10 Amended soil porosity	N/A		
11 Gravel depth, d_{media} (ft) *Only included in certain BMP types, see Table 5-4 of the TGD for WQMP for BMP design details*	N/A		
12 Gravel porosity	N/A		
13 Duration of storm as basin is filling (hrs) *Typical ~ 3hrs*	3		
14 Above Ground Retention Volume (ft^3) *$V_{retention}$ = Item 8 * [Item7 + (Item 9 * Item 10) + (Item 11 * Item 12) + (Item 13 * (Item 4 / 12))]*	0		
15 Underground Retention Volume (ft^3) *Volume determined using manufacturer's specifications and calculations*	25,818		
16 Total Retention Volume from LID Infiltration BMPs: 25,818 *(Sum of Items 14 and 15 for all infiltration BMP included in plan)*			
17 Fraction of DCV achieved with infiltration BMP: 144.5% *Retention% = Item 16 / Form 4.2-1 Item 7*			
18 Is full LID DCV retained onsite with combination of hydrologic source control and LID retention/infiltration BMPs? Yes ☒ No ☐ *If yes, demonstrate conformance using Form 4.3-10; If no, then reduce Item 3, Factor of Safety to 2.0 and increase Item 8, Infiltrating Surface Area, such that the portion of the site area used for retention and infiltration BMPs equals or exceeds the minimum effective area thresholds (Table 5-7 of the TGD for WQMP) for the applicable category of development and repeat all above calculations.*			

4.3.3 Harvest and Use BMP

Harvest and use BMP may be considered if the full LID DCV cannot be met by maximizing infiltration BMPs. Use Form 4.3-4 to compute on-site retention of runoff from proposed harvest and use BMPs.

Volume retention estimates for harvest and use BMPs are sensitive to the on-site demand for captured stormwater. Since irrigation water demand is low in the wet season, when most rainfall events occur in San Bernardino County, the volume of water that can be used within a specified drawdown period is relatively low. The bottom portion of Form 4.3-4 facilitates the necessary computations to show infeasibility if a minimum incremental benefit of 40 percent of the LID DCV would not be achievable with MEP implementation of on-site harvest and use of stormwater (Section 5.5.4 of the TGD for WQMP).

Form 4.3-4 Harvest and Use BMPs (DA 1) N/A

1 Remaining LID DCV not met by site design HSC or infiltration BMP (ft^3): 0 *V_{unmet} = Form 4.2-1 Item 7 - Form 4.3-2 Item 30 – Form 4.3-3 Item 16*			
BMP Type(s) *Compute runoff volume retention from proposed harvest and use BMP (Select BMPs from Table 5-4 of the TGD for WQMP) - Use additional forms for more BMPs*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
2 Describe cistern or runoff detention facility			
3 Storage volume for proposed detention type (ft^3) *Volume of cistern*			
4 Landscaped area planned for use of harvested stormwater (ft^2)			
5 Average wet season daily irrigation demand (in/day) Use local values, typical ~ 0.1 in/day			
6 Daily water demand (ft^3/day) *Item 4 * (Item 5 / 12)*			
7 Drawdown time (hrs) *Copy Item 6 from Form 4.2-1*			
8 Retention Volume (ft^3) *$V_{retention}$ = Minimum of (Item 3) or (Item 6 * (Item 7 / 24))*			
9 Total Retention Volume (ft^3) from Harvest and Use BMP *Sum of Item 8 for all harvest and use BMP included in plan*			
10 Is the full DCV retained with a combination of LID HSC, retention and infiltration, and harvest & use BMPs? Yes ☐ No ☐ *If yes, demonstrate conformance using Form 4.3-10. If no, then re-evaluate combinations of all LID BMP and optimize their implementation such that the maximum portion of the DCV is retained on-site (using a single BMP type or combination of BMP types). If the full DCV cannot be mitigated after this optimization process, proceed to Section 4.3.4.*			

4.3.4 Biotreatment BMP

Biotreatment BMPs may be considered if the full LID DCV cannot be met by maximizing retention and infiltration, and harvest and use BMPs. A key consideration when using biotreatment BMP is the effectiveness of the proposed BMP in addressing the pollutants of concern for the project (see Table 5-5 of the TGD for WQMP).

Use Form 4.3-5 to summarize the potential for volume based and/or flow based biotreatment options to biotreat the remaining unmet LID DCV w. Biotreatment computations are included as follows:

- Use Form 4.3-6 to compute biotreatment in small volume based biotreatment BMP (e.g. bioretention w/underdrains);
- Use Form 4.3-7 to compute biotreatment in large volume based biotreatment BMP (e.g. constructed wetlands);
- Use Form 4.3-8 to compute sizing criteria for flow-based biotreatment BMP (e.g. bioswales)

Form 4.3-5 Selection and Evaluation of Biotreatment BMP (DA 1) N/A

1 Remaining LID DCV not met by site design HSC, infiltration, or harvest and use BMP for potential biotreatment (ft^3): *Form 4.2-1 Item 7 - Form 4.3-2 Item 30 – Form 4.3-3 Item 16- Form 4.3-4 Item 9*	List pollutants of concern *Copy from Form 2.3-1.* Pathogens, Nutrients, Sediment, Oil and Grease, Trash/Debris, Pesticides / Herbicides, Organic Compounds, Total Suspended Solids, Oxygen Demanding Compounds, Petroleum Hydrocarbons	
2 Biotreatment BMP Selected *(Select biotreatment BMP(s) necessary to ensure all pollutants of concern are addressed through Unit Operations and Processes, described in Table 5-5 of the TGD for WQMP)*	Volume-based biotreatment *Use Forms 4.3-6 and 4.3-7 to compute treated volume*	Flow-based biotreatment *Use Form 4.3-8 to compute treated volume*
	☐ Bioretention with underdrain ☐ Planter box with underdrain ☐ Constructed wetlands ☐ Wet extended detention ☐ Dry extended detention	☐ Vegetated swale ☐ Vegetated filter strip ☐ Proprietary biotreatment
3 Volume biotreated in volume based biotreatment BMP (ft^3): *Form 4.3-6 Item 15 + Form 4.3-7 Item 13*	**4** Compute remaining LID DCV with implementation of volume based biotreatment BMP (ft^3): *Item 1 – Item 3*	**5** Remaining fraction of LID DCV for sizing flow based biotreatment BMP: % *Item 4 / Item 1*
6 Flow-based biotreatment BMP capacity provided (cfs): *Use Figure 5-2 of the TGD for WQMP to determine flow capacity required to provide biotreatment of remaining percentage of unmet LID DCV (Item 5), for the project's precipitation zone (Form 3-1 Item 1)*		
7 Metrics for MEP determination: • Provided a WQMP with the portion of site area used for suite of LID BMP equal to minimum thresholds in Table 5-7 of the TGD for WQMP for the proposed category of development: ☐ *If maximized on-site retention BMPs is feasible for partial capture, then LID BMP implementation must be optimized to retain and infiltrate the maximum portion of the DCV possible within the prescribed minimum effective area. The remaining portion of the DCV shall then be mitigated using biotreatment BMP.*		

Form 4.3-6 Volume Based Biotreatment (DA 1) – Bioretention and Planter Boxes with Underdrains N/A

Biotreatment BMP Type *(Bioretention w/underdrain, planter box w/underdrain, other comparable BMP)*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
1 Pollutants addressed with BMP *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in Table 5-5 of the TGD for WQMP*			
2 Amended soil infiltration rate *Typical ~ 5.0*			
3 Amended soil infiltration safety factor *Typical ~ 2.0*			
4 Amended soil design percolation rate (in/hr) P_{design} *= Item 2 / Item 3*			
5 Ponded water drawdown time (hr) *Copy Item 6 from Form 4.2-1*			
6 Maximum ponding depth (ft) *see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
7 Ponding Depth (ft) d_{BMP} *= Minimum of (1/12 * Item 4 * Item 5) or Item 6*			
8 Amended soil surface area (ft^2)			
9 Amended soil depth (ft) *see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
10 Amended soil porosity, *n*			
11 Gravel depth (ft) *see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
12 Gravel porosity, *n*			
13 Duration of storm as basin is filling (hrs) *Typical ~ 3hrs*			
14 Biotreated Volume (ft^3) $V_{biotreated}$ *= Item 8 * [(Item 7/2) + (Item 9 * Item 10) +(Item 11 * Item 12) + (Item 13 * (Item 4 / 12))]*			
15 Total biotreated volume from bioretention and/or planter box with underdrains BMP: 0 *Sum of Item 14 for all volume-based BMPs included in this form*			

Form 4.3-7 Volume Based Biotreatment (DA 1) – Constructed Wetlands and Extended Detention N/A

Biotreatment BMP Type *Constructed wetlands, extended wet detention, extended dry detention, or other comparable proprietary BMP. If BMP includes multiple modules (e.g. forebay and main basin), provide separate estimates for storage and pollutants treated in each module.*	DA DMA BMP Type		DA DMA BMP Type *(Use additional forms for more BMPs)*	
	Forebay	Basin	Forebay	Basin
1 Pollutants addressed with BMP forebay and basin *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in Table 5-5 of the TGD for WQMP*				
2 Bottom width (ft)				
3 Bottom length (ft)				
4 Bottom area (ft^2) A_{bottom} = *Item 2 * Item 3*				
5 Side slope (ft/ft)				
6 Depth of storage (ft)				
7 Water surface area (ft^2) $A_{surface}$ =*(Item 2 + (2 * Item 5 * Item 6)) * (Item 3 + (2 * Item 5 * Item 6))*				
8 Storage volume (ft^3) *For BMP with a forebay, ensure fraction of total storage is within ranges specified in BMP specific fact sheets, see Table 5-6 of the TGD for WQMP for reference to BMP design details* V =*Item 6 / 3 * [Item 4 + Item 7 + (Item 4 * Item 7)^0.5]*				
9 Drawdown Time (hrs) *Copy Item 6 from Form 2.1*				
10 Outflow rate (cfs) Q_{BMP} = *(Item* $8_{forebay}$ *+ Item* 8_{basin}*) / (Item 9 * 3600)*				
11 Duration of design storm event (hrs)				
12 Biotreated Volume (ft^3) $V_{biotreated}$ = *(Item* $8_{forebay}$ *+ Item* 8_{basin}*) +(Item 10 * Item 11 * 3600)*				
13 Total biotreated volume from constructed wetlands, extended dry detention, or extended wet detention : 0 *(Sum of Item 12 for all BMP included in plan)*				

Form 4.3-8 Flow Based Biotreatment (DA 1) N/A

Biotreatment BMP Type *Vegetated swale, vegetated filter strip, or other comparable proprietary BMP*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
1 Pollutants addressed with BMP *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in TGD Table 5-5*			
2 Flow depth for water quality treatment (ft) *BMP specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
3 Bed slope (ft/ft) *BMP specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
4 Manning's roughness coefficient			
5 Bottom width (ft) *b_w = (Form 4.3-5 Item 6 * Item 4) / (1.49 * Item 2^1.67 * Item 3^0.5)*			
6 Side Slope (ft/ft) *BMP specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
7 Cross sectional area (ft^2) *A = (Item 5 * Item 2) + (Item 6 * Item 2^2)*			
8 Water quality flow velocity (ft/sec) *V = Form 4.3-5 Item 6 / Item 7*			
9 Hydraulic residence time (min) *Pollutant specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
10 Length of flow based BMP (ft) *L = Item 8 * Item 9 * 60*			
11 Water surface area at water quality flow depth (ft^2) *SA_{top} = (Item 5 + (2 * Item 2 * Item 6)) * Item 10*			

4.3.5 Conformance Summary

Complete Form 4.3-9 to demonstrate how on-site LID DCV is met with proposed site design hydrologic source control, infiltration, harvest and use, and/or biotreatment BMP. The bottom line of the form is used to describe the basis for infeasibility determination for on-site LID BMP to achieve full LID DCV, and provides methods for computing remaining volume to be addressed in an alternative compliance plan. If the project has more than one outlet, then complete additional versions of this form for each outlet.

Form 4.3-9 Conformance Summary and Alternative Compliance Volume Estimate (DA 1)

1 Total LID DCV for the Project DA-1 (ft^3): 17,865 *Copy Item 7 in Form 4.2-1*

2 On-site retention with site design hydrologic source control LID BMP (ft^3): 0 *Copy Item 30 in Form 4.3-2*

3 On-site retention with LID infiltration BMP (ft^3): 25,818 *Copy Item 16 in Form 4.3-3*

4 On-site retention with LID harvest and use BMP (ft^3): 0 *Copy Item 9 in Form 4.3-4*

5 On-site biotreatment with volume based biotreatment BMP (ft^3): 0 *Copy Item 3 in Form 4.3-5*

6 Flow capacity provided by flow based biotreatment BMP (cfs): 0 *Copy Item 6 in Form 4.3-5*

7 LID BMP performance criteria are achieved if answer to any of the following is "Yes":

- Full retention of LID DCV with site design HSC, infiltration, or harvest and use BMP: Yes ☒ No ☐
  If yes, sum of Items 2, 3, and 4 is greater than Item 1
- Combination of on-site retention BMPs for a portion of the LID DCV and volume-based biotreatment BMP that address all pollutants of concern for the remaining LID DCV: Yes ☐ No ☐
  If yes, a) sum of Items 2, 3, 4, and 5 is greater than Item 1, and Items 2, 3 and 4 are maximized; or b) Item 6 is greater than Form 4.3--5 Item 6 and Items 2, 3 and 4 are maximized
- On-site retention and infiltration is determined to be infeasible and biotreatment BMP provide biotreatment for all pollutants of concern for full LID DCV: Yes ☐ No ☐
  If yes, Form 4.3-1 Items 7 and 8 were both checked yes

8 If the LID DCV is not achieved by any of these means, then the project may be allowed to develop an alternative compliance plan. Check box that describes the scenario which caused the need for alternative compliance:

- Combination of HSC, retention and infiltration, harvest and use, and biotreatment BMPs provide less than full LID DCV capture: ☐
  Checked yes for Form 4.3-5 Item 7, Item 6 is zero, and sum of Items 2, 3, 4, and 5 is less than Item 1. If so, apply water quality credits and calculate volume for alternative compliance, V_{alt} *= (Item 1 – Item 2 – Item 3 – Item 4 – Item 5) * (100 - Form 2.4-1 Item 2)%*
- An approved Watershed Action Plan (WAP) demonstrates that water quality and hydrologic impacts of urbanization are more effective when managed in at an off-site facility: ☐
  Attach appropriate WAP section, including technical documentation, showing effectiveness comparisons for the project site and regional watershed

4.3.6 Hydromodification Control BMP

Use Form 4.3-10 to compute the remaining runoff volume retention, after LID BMP are implemented, needed to address HCOC, and the increase in time of concentration and decrease in peak runoff necessary to meet targets for protection of waterbodies with a potential HCOC. Describe hydromodification control BMP that address HCOC, which may include off-site BMP and/or in-stream controls. Section 5.6 of the TGD for WQMP provides additional details on selection and evaluation of hydromodification control BMP.

Form 4.3-10 Hydromodification Control BMPs (DA 1)

1 Volume reduction needed for HCOC performance criteria (ft^3): 25,071 *(Form 4.2-2 Item 4 * 0.95) – Form 4.2-2 Item 1*	**2** On-site retention with site design hydrologic source control, infiltration, and harvest and use LID BMP (ft^3): 25,818 *Sum of Form 4.3-9 Items 2, 3, and 4 Evaluate option to increase implementation of on-site retention in Forms 4.3-2, 4.3-3, and 4.3-4 in excess of LID DCV toward achieving HCOC volume reduction*
3 Remaining volume for HCOC volume capture (ft^3): -747 *Item 1 – Item 2*	**4** Volume capture provided by incorporating additional on-site or off-site retention BMPs (ft^3): 0 *Existing downstream BMP may be used to demonstrate additional volume capture (if so, attach to this WQMP a hydrologic analysis showing how the additional volume would be retained during a 2-yr storm event for the regional watershed)*

5 If Item 4 is less than Item 3, incorporate in-stream controls on downstream waterbody segment to prevent impacts due to hydromodification ☐ *Attach in-stream control BMP selection and evaluation to this WQMP*

6 Is Form 4.2-2 Item 11 less than or equal to 5%: Yes ☐ No ☒

If yes, HCOC performance criteria is achieved. If no, select one or more mitigation options below:

- Demonstrate increase in time of concentration achieved by proposed LID site design, LID BMP, and additional on-site or off-site retention BMP ☒
  BMP upstream of a waterbody segment with a potential HCOC may be used to demonstrate increased time of concentration through hydrograph attenuation (if so, show that the hydraulic residence time provided in BMP for a 2-year storm event is equal or greater than the addition time of concentration requirement in Form 4.2-4 Item 15)
- Increase time of concentration by preserving pre-developed flow path and/or increase travel time by reducing slope and increasing cross-sectional area and roughness for proposed on-site conveyance facilities ☐
- Incorporate appropriate in-stream controls for downstream waterbody segment to prevent impacts due to hydromodification, in a plan approved and signed by a licensed engineer in the State of California ☐

7 Form 4.2-2 Item 12 less than or equal to 5%: Yes ☐ No ☒

If yes, HCOC performance criteria is achieved. If no, select one or more mitigation options below:

- Demonstrate reduction in peak runoff achieved by proposed LID site design, LID BMPs, and additional on-site or off-site retention BMPs ☒
  BMPs upstream of a waterbody segment with a potential HCOC may be used to demonstrate additional peak runoff reduction through hydrograph attenuation (if so, attach to this WQMP, a hydrograph analysis showing how the peak runoff would be reduced during a 2-yr storm event)
- Incorporate appropriate in-stream controls for downstream waterbody segment to prevent impacts due to hydromodification, in a plan approved and signed by a licensed engineer in the State of California ☐

4.4 Alternative Compliance Plan (if applicable) N/A

The project is being treated using on-site proprietary Biotreatment BMP's. The owner and responsible party for the proposed Biotreatment BMP's, which serves to help improve the water quality of the project site runoff from the project area, is BCT Development. Thus, no additional measures are needed.

Section 5 Inspection and Maintenance Responsibility for Post Construction BMP

All BMP included as part of the project WQMP are required to be maintained through regular scheduled inspection and maintenance (refer to Section 8, Post Construction BMP Requirements, in the TGD for WQMP). Fully complete Form 5-1 summarizing all BMP included in the WQMP. Attach additional forms as needed. The WQMP shall also include a detailed Operation and Maintenance Plan for all BMP and may require a Maintenance Agreement (consult the jurisdiction's LIP). If a Maintenance Agreement is required, it must also be attached to the WQMP.

Form 5-1 BMP Inspection and Maintenance (use additional forms as necessary)

BMP	Reponsible Party(s)	Inspection/ Maintenance Activities Required	Minimum Frequency of Activities
N1: Education for Property Owners, Tenants, and Occupants	Property Owner	Educational materials will be provided to the occupants prior to occupancy.	At the time of occupancy and as necessary
N2: Activity Restrictions	Property Owner	The Owner will prescribe activity restrictions to protect surface water quality, through lease terms or other equally effective measure, for the property. Restrictions include, but are not limited to, prohibiting vehicle maintenance or vehicle washing.	At the time of occupancy and as necessary
N3: Landscape Management	Property Owner	Maintenance shall be consistent with City requirements for use of fertilizers and pesticides. Maintenance includes mowing, weeding, and debris removal on a weekly basis. Trimming, replanting, and replacement of mulch shall be performed on an as-needed basis to prevent exposure of erodible surfaces. Trimmings, clippings, and other landscape wastes shall be properly disposed of in accordance with local regulations. Materials temporarily stockpiled during maintenance activities shall be placed away from water courses and storm drain inlets.	Monthly or as necessary
N11: Litter Control	Property Owner	Litter patrol, violations investigations, reporting and other litter control activities shall be performed on a weekly basis and in conjunction with routine maintenance activities.	Weekly

N12: Employee Training	Property Owner	The Owner shall educate all new employees/ managers on storm water pollution prevention, particularly good housekeeping practices, prior to the start of the rainy season (October 1). Refresher courses shall be conducted on an as needed basis. Materials that may be utilized on BMP maintenance are attached to this WQMP.	Annually or as necessary
N14: Catch Basin Inspection	Property Owner	Catch basin inlets and other drainage facilities shall be inspected annually. Inlets and other facilities shall be cleaned when the sump is 40% full and annually at a minimum, prior to start of rainy season.	Semi-Annually or as necessary
N15: Vacuum Sweep Private Streets and Parking Lots	Property Owner	Private streets, alley and parking areas within the project shall be swept at a minimum frequency of twice per month. Adjustabel curb screen installed on catch basins to be swept when the streets are swept.	Bi-monthly (Twice a month)
Underground Infiltration System	Property Owner	Underground storm water infiltration systems shall be inspected semiannually by October 1st and February 1st and within 48 hours after a significant rain event each year, to determine drawdowns within 48 hrs and maintained by flushing and vacuum of accumulated solids, via access manhole when necessary, to ensure optimum performance. The rate at which the system collects pollutants will depend more on site activities than the size or configuration of the system.	Bi-Annually (At minimum)

Section 6 WQMP Attachments

6.1. Site Plan and Drainage Plan

Include a site plan and drainage plan sheet set containing the following minimum information:

- Project location
- Site boundary
- Land uses and land covers, as applicable
- Suitability/feasibility constraints
- Structural Source Control BMP locations
- Site Design Hydrologic Source Control BMP locations
- LID BMP details
- Drainage delineations and flow information
- Drainage connections

6.2 Electronic Data Submittal

Minimum requirements include submittal of PDF exhibits in addition to hard copies. Format must not require specialized software to open. If the local jurisdiction requires specialized electronic document formats (as described in their local Local Implementation Plan), this section will describe the contents (e.g., layering, nomenclature, geo-referencing, etc.) of these documents so that they may be interpreted efficiently and accurately.

6.3 Post Construction

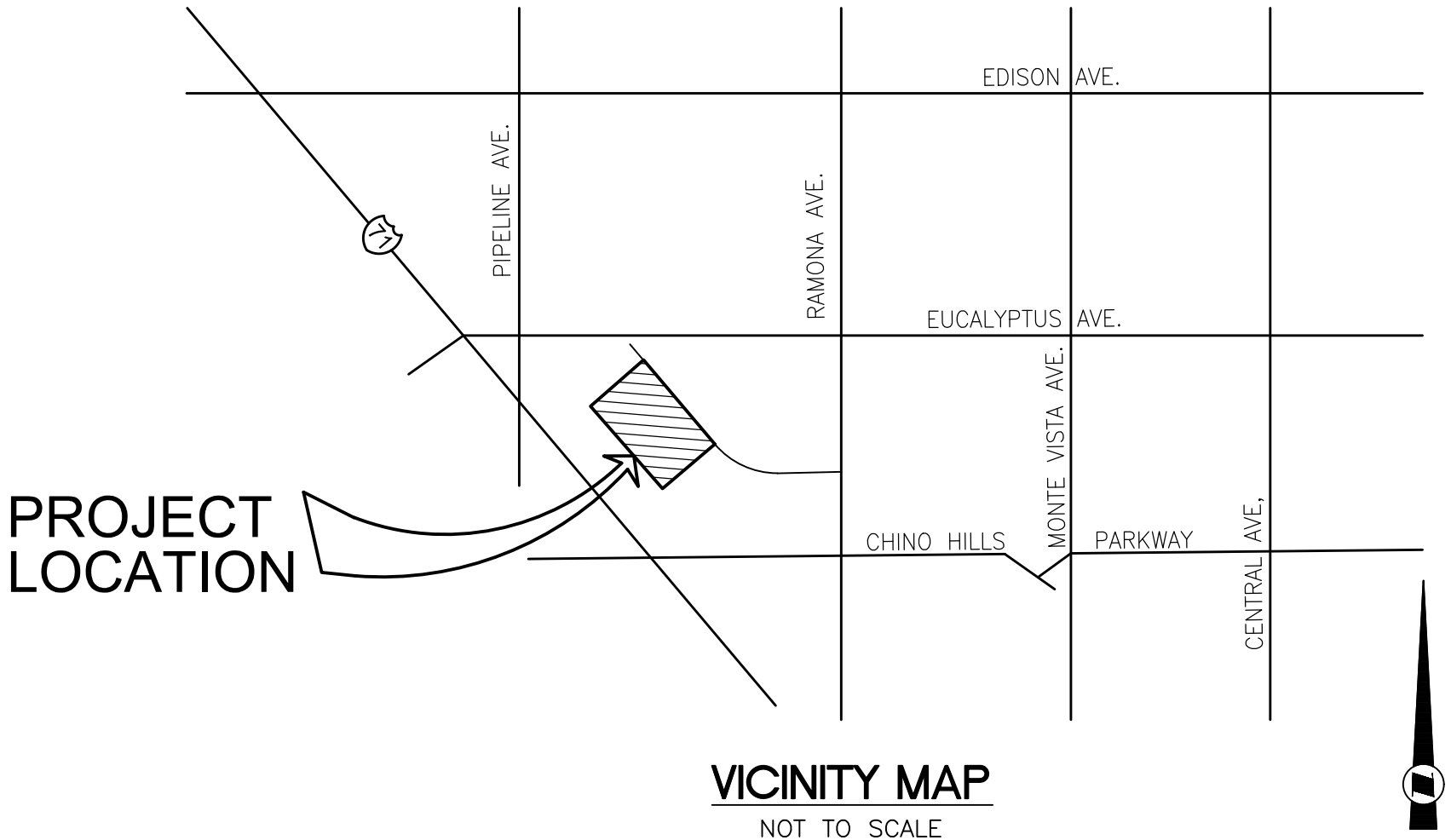
Attach all O&M Plans and Maintenance Agreements for BMP to the WQMP.

6.4 Other Supporting Documentation

- BMP Educational Materials
- Activity Restriction – C, C&R's & Lease Agreements

6.1 SITE PLAN AND DRAINAGE PLAN

- Vicinity Map
- Project Location Map
- Site Plan, Drainage Flow, WQMP Exhibits and LID BMP Plan



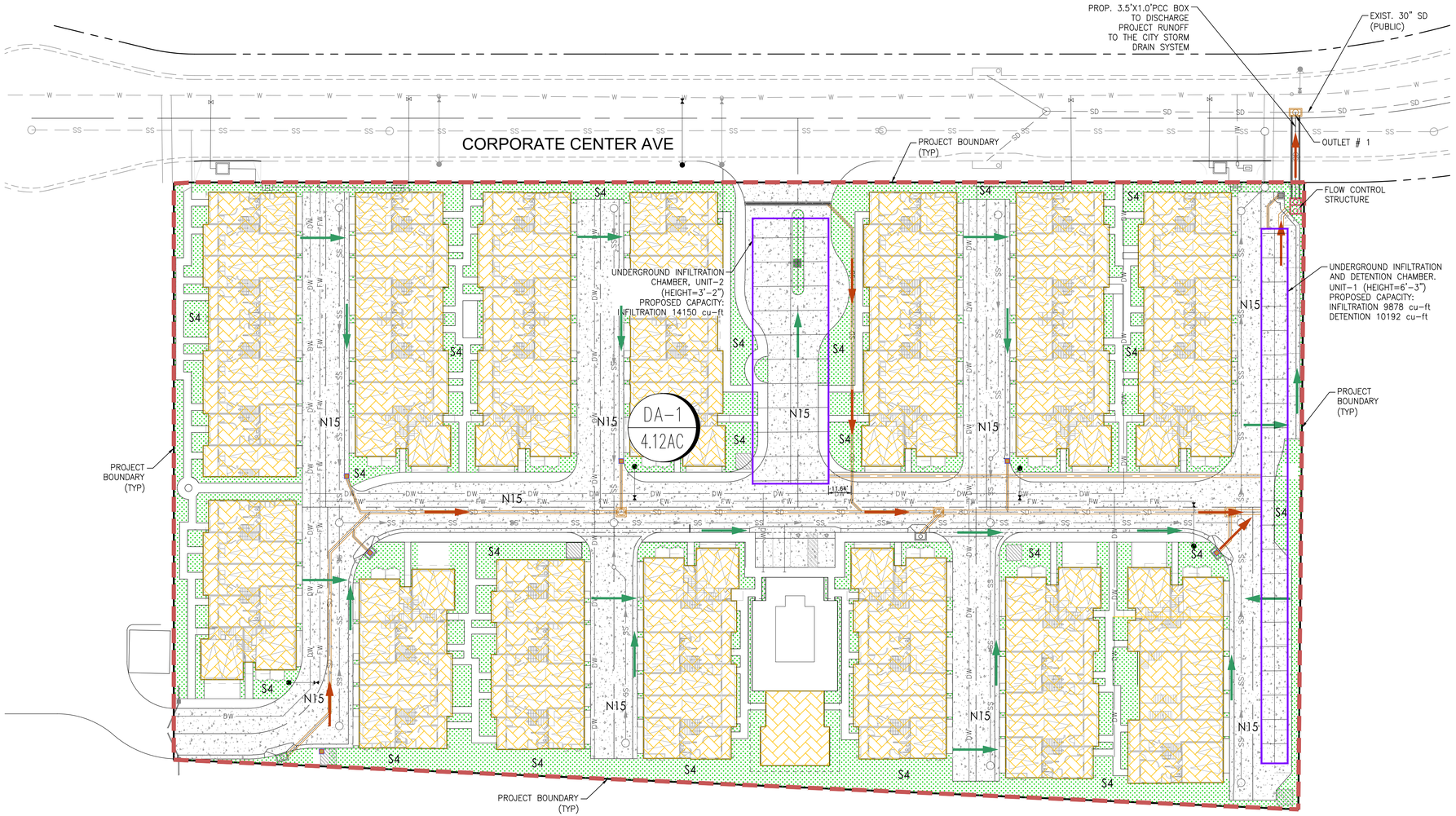
VICINITY MAP

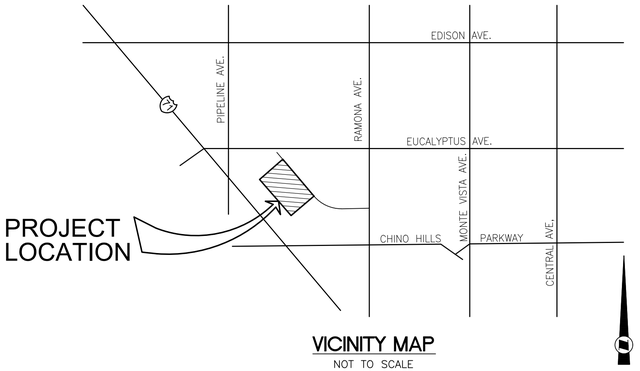
NOT TO SCALE



SITE LOCATION MAP

CHINO CORPORATE CENTER





VICINITY MAP
NOT TO SCALE

LEGEND

- DRAINAGE AREA BOUNDARY
- FLOW DIRECTION (SURFACE)
- FLOW DIRECTION (PIPE)
- PROPOSED STORM DRAIN LINE (PUBLIC)
- SD — PROPOSED STORM DRAIN LINE (PRIVATE)
- CATCH BASIN STENCILING AND COMMON AREA CATCH BASIN INSPECTION
- N15 — STREET VACUUMING AND CLEANING
- S4 — EFFICIENT IRRIGATION
- LANDSCAPE AREA
- ROOF
- PAVEMENT/HARDSCAPE
- DA-X X AC — DRAINAGE AREA ID AND ACREAGE
- UNDERGROUND DETENTION CHAMBERS (TO MITIGATE HMOD)

DCV Calculation Chino Corporate Center

Tributary Area DA-1	179620	sf	Step 1
Pervious area	21690	sf	Site condition
Impervious area	157930	sf	Site condition
Percent Imperviousness	88%		Site condition (Land Use)
Runoff coefficient=	0.701		Step 3
P2yr-1hr=	0.586		Step 4 (NOAA Precepitation)
C1 Valley =	1.4807		Step 5
P6 =	0.868		Step 5
Drawdown Time =	48	hour	Step 6
C2 (For 48 hour)=	1.963		Step 7
DCV =	**17865**	cft	Step 7

Underground Chamber sizing Calculations (Infiltration)

Unit ID	Size			Volume
	L	W	D	cu-ft
Unit-1	275.04	13.31	3.2	9878
Unit-2	136.5	38.75	3.2	14150
Infiltred Volume in 3 hour (0.8 in/hr) =				1790
Total Volume Designed to retain on-site =				25818
Minimum Volume required to retain on-site =				25071

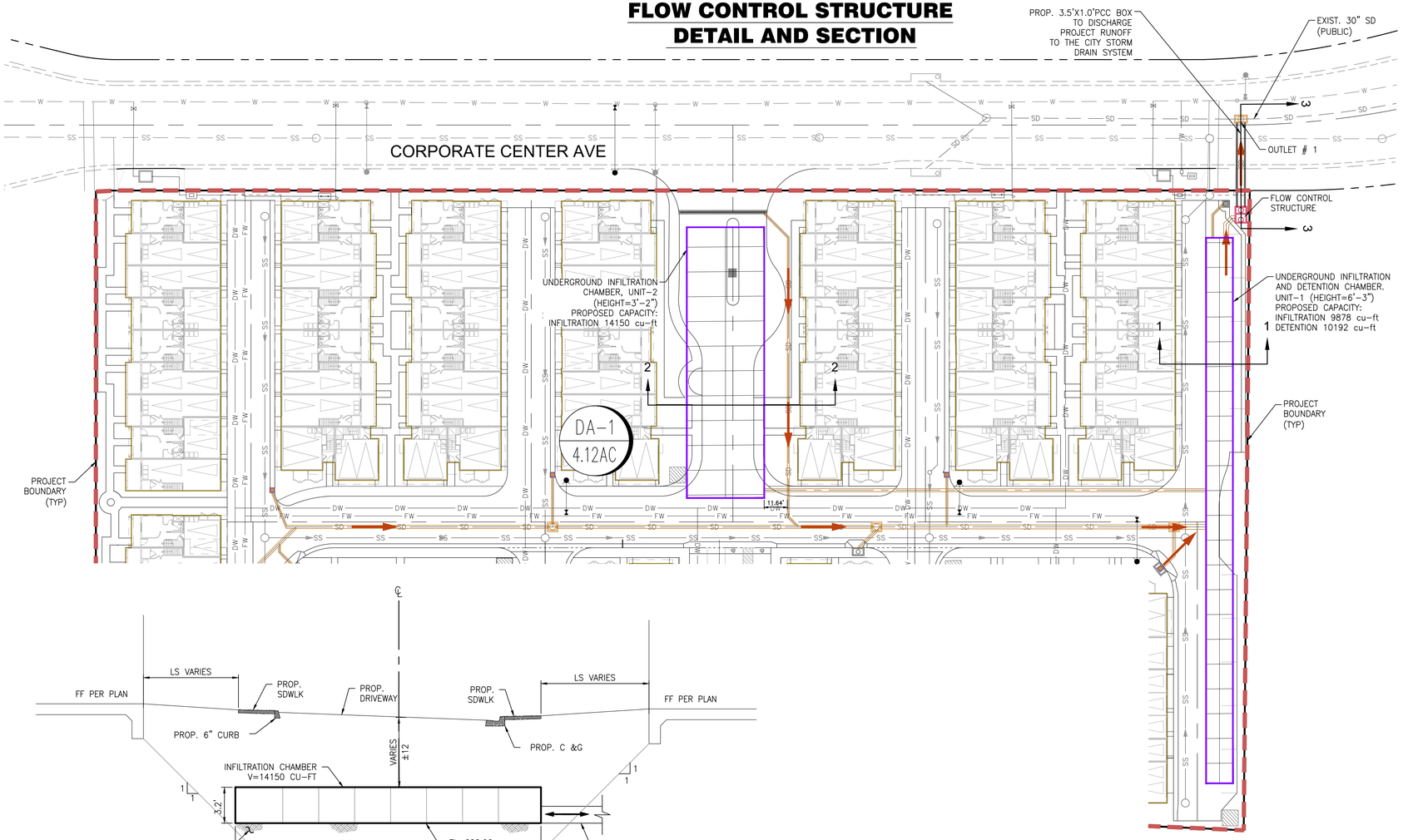
N

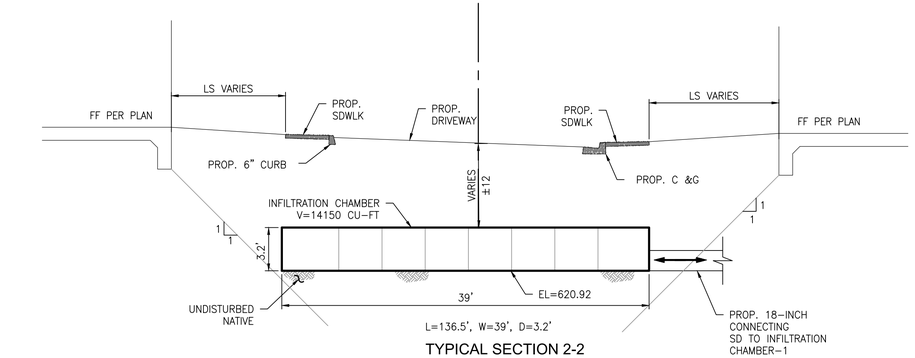
Scale: 1" = 30'
Exhibit Date:2.05.2025

WQMP SITE PLAN
CHINO COPORATE CENTER
SOUTHWEST OF
CORPORATE CENTER AVENUE
CHINO, CA 91710

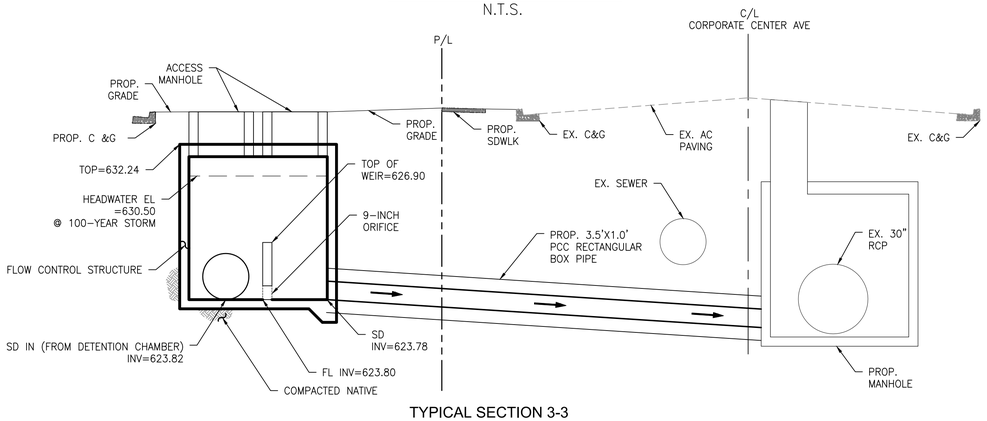
FUSCOE ENGINEERING
3257 E Guasti Rd, Suite 300
Ontario, California 91761
909.581.0676
fuscoe.com

UNDERGROUND CHAMBER AND FLOW CONTROL STRUCTURE DETAIL AND SECTION

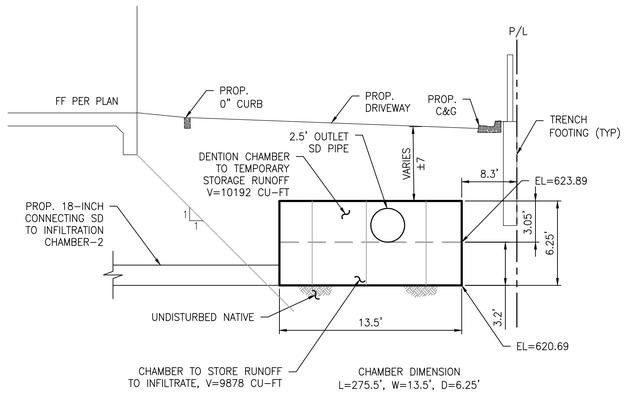




TYPICAL SECTION 2-2
INFILTRATION CHAMBER UNIT 2
N.T.S.



TYPICAL SECTION 3-3
FLOW CONTROL STRUCTURE
N.T.S.



TYPICAL SECTION 1-1
INFILTRATION AND DETENTION CHAMBER UNIT 1
N.T.S.

HYDROMOD MITIGATION VOLUME, FLOW AND TC

VOLUME SUMMARY		
V2 (24-Hour, 2-Year Pre-Development)	0.1836	ac-ft
V2 (24-Hour, 2-Year Post-Development)	0.7991	ac-ft
Delta V2 (Pre vs Post)	0.5755	ac-ft
Delta V2	25071	cu-ft
Volume proposed to be retaining on site =	25818	cu-ft

FLOW RATE (TO MITIGATE VELOCITY)		
Q2 (Pre-Development) =	2.51	cfs
Q2 (Post-Development) =	6.757	cfs
Q2 reduction to meet HCOC requirements	3.91	cfs
Max. Q2 allowed from site =	2.85	cfs
Actual Q2 leaving site =	2.32	cfs

STAGE STORAGE AND FLOW TABLE FOR DETENTION BASIN

Storage Volume (Unit-1)	Orifice Dia (in)	Total Depth	Water Head (Above Inflt. Basin)	Effective Head (ft)	Flow in cfs (1"Orifice at Invert)	Total Storage Volume	Storage Volume Detention
V (1)	d1	H	Hd	h1	q1	ac-ft	ac-ft
13354	9	4.25	1.05	0.7	1.75	0.307	0.076
16558	9	5.25	2.05	1.7	2.75	0.380	0.148
20070	9	6.25	3.05	2.7	3.48	0.461	0.225
23366	9	7.25	4.05	3.7	4.08	0.536	0.300
26546	9	8.25	5.05	4.7	4.60	0.609	0.373
27456	9	8.5	5.30	4.9	4.72	0.630	0.393

N

Scale: 1" = 30'
Exhibit Date:2.05.25

CHINO COPORATE CENTER
SOUTHWEST OF
CORPORATE CENTER AVENUE
CHINO, CA 91710

FUSCOE ENGINEERING
3257 E Guasti Rd, Suite 300
Ontario, California 91761
909.581.0676
fuscoe.com

6.2 ELECTRONIC DATA

CD for Electronic Data Submittal (BMP Exhibit)
(To be added at final WQMP)

6.3 POST CONSTRUCTION

Water Quality Management Plan and Stormwater BMP Transfer, Access and Maintenance Agreement (To be added at final WQMP)

6.4 OTHER SUPPORTING DOCUMENTS

6.4.1 BMP Educational Materials

6.4.2 Precipitation Data

6.4.3 Summery Water Quality and HMOD Mitigation,
Supporting Document and Calculations:
BMP (Underground Infiltration Chamber) Sizing Calculation and Supporting Documents: Infiltration Test Report, Factor of Safety Calculation, 2-Year Pre and Post Development Runoff Calculation (Rational Method), Peak Runoff and Volume Calculation (Unit Hydrograph Method), Detention Basin Sizing Calculation (Routing Calculation)

6.4.4 BMP Specs. /Maintenance/Inspection

6.4.1 BMP EDUCATIONAL MATERIALS

San Bernardino County Stormwater Program
825 East Third Street · Room 127
San Bernardino, CA 94215-0835

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STANDARD
U.S. POSTAGE
PAID
SACRAMENTO, CA
PERMIT# 000



STORMWATER Pollution Prevention

Stormwater Management Practices for Commercial Landscape Maintenance

Yard waste, sediments, and toxic lawn/garden chemicals used in commercial landscape maintenance often make their way into the San Bernardino County storm drain system and do not get treated before reaching the Santa Ana River. This pollutes our drinking water and contaminates local waterways, making them unsafe for people and wildlife. Following these best management practices will prevent pollution, comply with regulations and protect public health.

Recycle Yard Waste

Recycle leaves, grass clippings and other yard waste. Do not blow, sweep, rake or hose yard waste into the street. Try grasscycling - the natural recycling of grass by leaving clippings on the lawn when mowing. Grass clippings will quickly decompose, returning valuable nutrients to the soil. Further information can be obtained at www.ciwmb.ca.gov/Organics.

Use Fertilizers, Herbicides and Pesticides Safely

Fertilizers, herbicides and pesticides are often carried into the storm drain system by sprinkler runoff. Use of natural, non-toxic alternatives to the traditional fertilizers, herbicides and pesticides is highly recommended. If you must use chemical fertilizers, herbicides, or pesticides:



- Spot apply pesticides and herbicides, rather than blanketing entire areas.
- Avoid applying near curbs and driveways, and never apply before a rain.
- Apply fertilizers as needed, when plants can best use it, and when the potential for it being carried away by runoff is low.

Recycle Hazardous Waste

Pesticides, fertilizers, herbicides and motor oil contaminate landfills and should be disposed of through a Hazardous Waste Facility, which accepts these types of materials. For information on proper disposal call, (909) 386-8401.

Use Water Wisely

Conserve water and prevent runoff by controlling the amount of water and direction of sprinklers. Sprinklers should be on long enough to allow water to soak into the ground but not so long as to cause runoff. Periodically inspect, fix leaks and realign sprinkler heads. Plant native vegetation to reduce the need of water, fertilizers, herbicides, and pesticides.

Prevent Erosion

Erosion washes sediments, debris and toxic runoff into the storm drain system, polluting waterways.

- Prevent erosion and sediment runoff by using ground cover, berms and vegetation down-slope to capture runoff.
- Avoid excavation or grading during wet weather.

Store Materials Safely

Keep landscaping materials and debris away from the street, gutter and storm drains. On-site stockpiles of materials must be covered with plastic sheeting to protect from rain, wind and runoff.

To report illegal dumping or for more information on stormwater pollution prevention, call:

1 (800) CLEANUP

or visit our websites:

www.co.san-bernardino.ca.us/flood/npdes

www.1800cleanup.org

San Bernardino County STORMWATER PROGRAM

LANDSCAPE MAINTENANCE

DISCHARGE TO THE STORM DRAIN, **ACCIDENTAL OR NOT**, COULD LEAD TO ENFORCEMENT ACTIONS, WHICH COULD INCLUDE FINES.

Follow the best practices below to **prevent water pollution from landscaping activities.**

RECYCLE YARD WASTE



- Recycle leaves, grass clippings and other yard waste.
- Do not blow, sweep, rake or hose yard waste into the street or catch basin.
- **Try grasscycling:** the natural recycling of grass by leaving clippings on the lawn when mowing.

  For more information, please visit: **www.calrecycle.ca.gov/organics/grasscycling**

USE FERTILIZERS, HERBICIDES AND PESTICIDES SAFELY



- Fertilizers, herbicides and pesticides are often carried into the storm drain system by sprinkler runoff. Use natural and non-toxic alternatives as often as possible.
- If you must use chemical fertilizers, herbicides or pesticides:
  - Spot apply, rather than blanketing entire areas.
  - Avoid applying near curbs and driveways, and **never** before a rain.
  - Apply fertilizers as needed: when plants could best use it and when the potential runoff would be low.
  - Follow the manufacturer's instructions carefully—this will not only give the best results, but will save money.

USE WATER WISELY



- Control the amount of water and direction of sprinklers. Sprinklers should only be on long enough to allow water to soak into the ground, but not so long as to cause runoff.
- Periodically inspect, fix leaks and realign sprinkler heads.
- Plant native vegetation to reduce the need of water, fertilizers, herbicides and pesticides.

HOMEOWNERS

KEEP THESE TIPS IN MIND WHEN HIRING PROFESSIONAL LANDSCAPERS AND REMIND AS NECESSARY.



Leftover pesticides, fertilizers, and herbicides contaminate landfills and should be disposed of through a Hazardous Waste Facility.

For more information on proper disposal call,

(909) 382-5401 or 1-800-OILY CAT.

*FREE for San Bernardino County residents only. Businesses can call for cost inquiries and to schedule an appointment.

To report illegal dumping, call (877) WASTE18 or visit sbcountystormwater.org
To report toxic spills, call 1(800) 33 TOXIC
To dispose of hazardous waste, call 1(800) OILY CAT

sbcountystormwater.org

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Redlands • Rialto • San Bernardino • San Bernardino County • San Bernardino County Flood Control District • Upland • Yucaipa

MANTENIMIENTO DE JARDINERÍA

LAS DESCARGAS A LOS DESAGUES PLUVIALES, DE MANERA ACCIDENTAL O NO, PUEDEN INDUCIR A LA APLICACIÓN DE MULTAS Y OTRAS MEDIDAS.

Siga las mejores prácticas descritas debajo para evitar la contaminación del agua por actividades de jardinería.

RECICLAJE DE LOS DESECHOS DE JARDÍN



- Reciclar las hojas, recortes de césped y otros desechos de jardín.
- No soplar, barrer, o usar la manguera para empujar los desechos de jardín a la calle.
- **Poner a prueba el reciclaje de césped (grasscycling): la manera natural de reciclar el césped dejando los recortes sobre el césped cuando son cortados. Para más información, visite la página web: www.calrecycle.ca.gov/organics/grasscycling**

USAR FERTILIZANTES, HERBICIDAS Y PESTICIDAS DE MANERA SEGURA



- Los fertilizantes, herbicidas y pesticidas son arrastrados con frecuencia hacia el sistema de desagüe pluvial mediante el escurrimiento de los rociadores. Use alternativas naturales no tóxicas siempre que sea posible.
- Si tiene que usar fertilizantes, herbicidas o pesticidas químicos:
  Aplicar solo en el sitio necesario, en lugar de cubrir todas las áreas.
  Evitar aplicar cerca de los bordillos y las calzadas, y nunca antes de que llueva.
  Aplicar los fertilizantes cuando sea necesario: esto es, cuando las plantas mejor podrían usarlo y el posible escurrimiento sea bajo.
  Seguir las instrucciones del fabricante cuidadosamente – esto no solo le proporcionará los mejores resultados, pero le permitirá ahorrar dinero.

USAR EL AGUA DE MANERA PRUDENTE



- Controlar la cantidad de agua y la orientación de los rociadores. Los rociadores deben ser **solo lo suficientemente largos como para** permitir que el agua remoje el suelo, pero no tan largos que causen un escurrimiento.
- Inspeccione, repare los escapes y alinee los aspersores periódicamente.
- Siembre plantas nativas para reducir el uso de agua, fertilizantes, herbicidas y pesticidas.

PROPIETARIOS DE HOGARES

Tengan en cuenta estos consejos cuando contraten a paisajistas profesionales y recuérdenselos según sea necesario.



Los sobrantes de pesticidas, fertilizantes y herbicidas contaminan los vertederos y deben ser desechados a través de Plantas de Tratamiento para Residuos Peligrosos.

Para más información sobre el manejo adecuado de residuos peligrosos, llame a (909) 382-5401 o 1-800-OILY CAT.

*GRATIS únicamente para los residentes del Condado de San Bernardino. Las empresas pueden llamar para indagar sobre los costos y concertar una cita

Para denunciar el vertido ilegal de basura, llame al (877) WASTE18 o visite sbcountystormwater.org
Para denunciar derrames tóxicos, llame al 1(800) 33 TOXIC
Para desechar residuos peligrosos, llame al 1(800) OILY CAT

sbcountystormwater.org

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PICK UP
After Your Pet!





Protect the health of your pet and the environment

For more information about current campaigns visit **sbcountystormwater.org/dog**

facebook.com/sbcountystormwater

San Bernardino County Stormwater Program

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WHY IT MATTERS



PROTECT
YOUR FAMILY AND YOUR PET

- Dog waste can infect children and adults with disease-causing bacteria and parasites.
- Your dog can get infected from the waste of other dogs.

PROTECT
OUR ENVIRONMENT



Leaving dog waste on the streets or on your property can have a negative impact on water quality. Pet waste that's not disposed of properly flows untreated through the storm drain system and directly into our local water bodies. Pet waste is a pollutant that contains nutrients, parasites and bacteria that can affect the quality of our rivers and the ocean and make the water unsafe for swimming, drinking or fishing.

BAG IT AND TRASH IT

It's that simple to protect our health and the environment!



- Keep a supply of bags near your dog leash or tie them to the leash
- Use a poop scooper
- Bring several plastic bags with you
- Reuse plastic grocery bags or purchase special doggie waste bags at pet supplies stores
- Make sure your pet's waste gets into a trash can

Encourage your neighbors and other pet owners to do the right thing and pick up after their pets.










¡RECOJA los desechos de sus mascotas!



Proteja la salud de su mascota y el medio ambiente

Si desea más información, visite
sbcountystormwater.org/dog

facebook.com/sbcountystormwater

Big Bear • Chino • Chino Hills • Colton • Fontana • Grand Terrace • Highland • Loma Linda • Montclair • Ontario • Rancho Cucamonga • Redlands • Rialto • San Bernardino • San Bernardino County • San Bernardino County Flood Control District • Upland • Yucaipa

San Bernardino County Stormwater Program

POR QUÉ ES IMPORTANTE



PROTEJA
A SU FAMILIA Y A SU MASCOTA

- Los desechos de los perros pueden infectar a niños y adultos con enfermedades causadas por bacterias y parásitos.
- Su perro puede contraer una infección de los desechos de otros perros.

PROTEJA
EL MEDIO AMBIENTE



Dejar desechos de perros en la calle o en su propiedad puede tener un impacto negativo en la calidad del agua. Los desechos de mascotas que no se eliminan de la propiedad fluyen sin tratamiento por el sistema de drenaje de tormentas y llegan directamente a las masas de agua locales. Los desechos de mascotas son agentes contaminantes que contienen nutrientes, parásitos y bacterias que pueden afectar la calidad de nuestros ríos y océanos, y hacer que el agua no sea segura para nadar, beber o pescar.

COLÓQUELA EN UNA BOLSA Y TÍRELA EN LA BASURA

Así de simple es proteger nuestra salud y el medio ambiente.



- Guarde algunas bolsas cerca de la correa de su perro o átelas a la correa;
- Use una cuchara para recojer el desecho;
- Lleve varias bolsas plásticas;
- Reutilice bolsas plásticas de comestibles o compre bolsas especiales para desechos de perros en las tiendas para mascotas;
- Asegúrese de tirar los desechos de su perro en un cesto de basura.

Aliente a sus vecinos y otros dueños de mascotas a hacer lo correcto y levantar los desechos de sus mascotas.






STORMWATER Pollution Prevention

FOOD AND RESTAURANT

Food waste, grease, cleaning fluids, mop water and trash from restaurant operations often make their way into the San Bernardino County storm drain system, and do not get treated before reaching the Santa Ana River. This pollutes our drinking water and contaminates waterways, making them unsafe for people and wildlife. Follow these best management practices to prevent pollution and protect public health.

Recycle Oil & Grease

Oil and grease wastes can be recycled. Look in the yellow pages for rendering companies, or call (909) 386-8401 for disposal information. Don't pour oil or grease into sinks, floor drains or onto a parking lot or street. Keep grease bins covered and contained. Keep your grease interceptor maintained to prevent sewer overflows or backups and keep records of grease waste hauling.



Dumpster Areas

Keep dumpster lids closed and the areas around them clean. Do not fill with liquid waste or hose them out. Call your trash hauler to replace any dumpsters that are damaged or leak.



Cleaning & Maintenance

Clean equipment, floor mats, filters and garbage cans in a mop sink, wash rack or floor drain connected to the sewer through a grease trap. Don't wash them or pour wash water in a parking lot, alley, sidewalk or street. Sweep outside areas and put the debris in the garbage, instead of sweeping or hosing it into the parking lot or street.



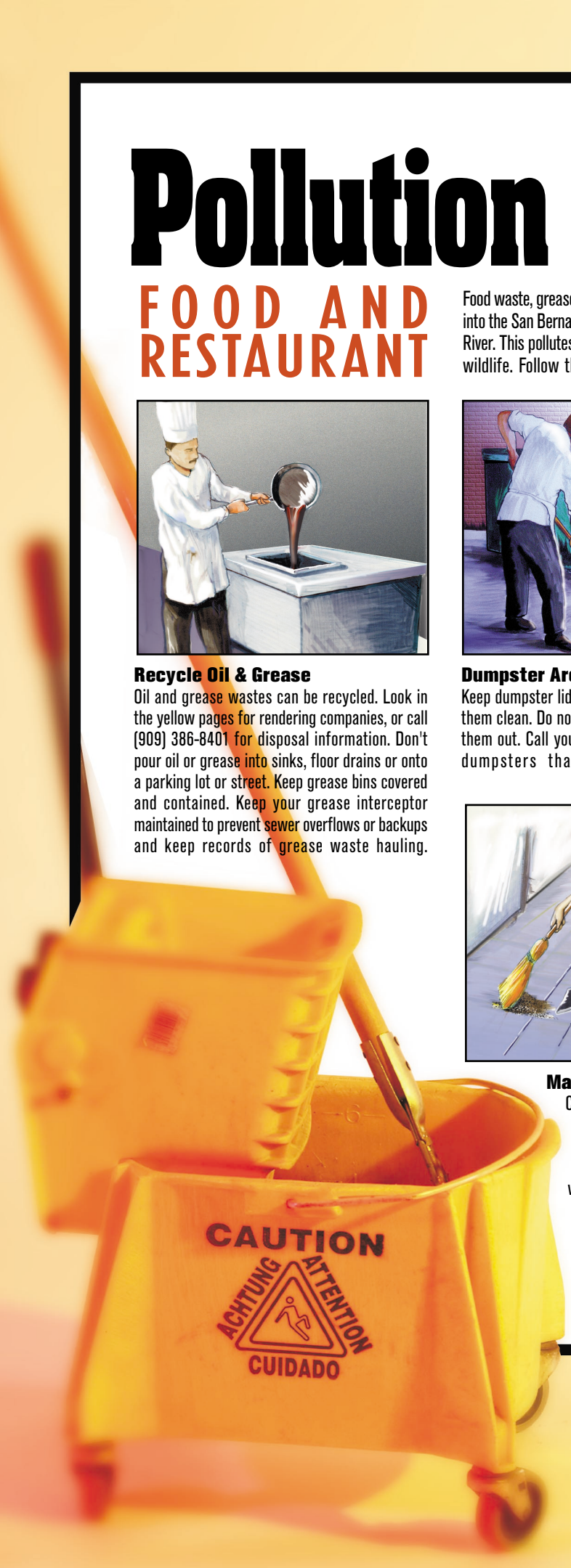
Managing Spills

Clean food spills in loading and trash areas by using absorbent materials and sweeping then mopping, and discharge mop water into the sewer through a grease interceptor. Have spill containment and cleanup kits available. To report serious toxic spills, call 911.



Handling Toxic Chemicals

Dispose of all unwanted toxics materials like cleaners, solvents and detergents through a hazardous waste hauler. These items are not trash. For information on hazardous waste pickup, call (909) 386-8401. Use non-toxic cleaning products whenever possible.



To report illegal dumping or for more information on stormwater pollution prevention, call:

1 (800) CLEANUP

www.1800cleanup.org

San Bernardino County STORMWATER PROGRAM

Prevención de Contaminación del Desagüe

RESTAURANTES

Desechos de comida, grasa, liquidos de limpieza, agua del trapiador y basura de un restaurant acaban por llegar a los drenajes del Condado de San Bernardino y terminando en el rio de Santa Ana. Para prevenir esta contaminación y protejer la salud publica, siga estas practicas.

Reciclando Aceite & Grasa

El aceite y la grasa se pueden reciclar. Busca en las paginas amarillas compañias de reciclaje o llama al (909) 386-8401 para información. No los tires en los lavaderos, las coladeras, el estacionamiento o en la calle. Manten los recipientes de grasa cuviertos y guardados.



Areas de Basura

Manten el bote de basura cerrada y el área del basurero limpia. No lo llenes con desechos líquidos ni utilices la manguera para lavarlo. Llama al transportador de basura para reemplasar los botes de basura que esten dañados.



Limpiando & Mantenimiento

Limpia los tapetes de piso, los filtros y los botes de basura en el contenedor para trapeadores, lavavo, o en la coladera apropiado que llegue al drenaje. No los laves en el estacionamiento, los callejones, en la banqueta o en la calle. Barre el area de afuera y pon todo en la basura, en ves de dejarlo en la banqueta o en la calle.



Controlando Derrames

Usa métodos secos para limpiar los derrames, barriendo y usando tierra para desechos de gato, no uses la manguera para limpiar los derrames. Manten un kit de limpieza de derramamientos en tu negocio. Para reportar derrames llama al 911.



Manejando Quimicos Toxicos

Deposita los desechos toxicos como limpiadores, solventes, detergentes a un bote para toxicos. Estos no son basura. Para mas información sobre desechos peligrosos, llama al (909) 386-8401. Usa productos de limpieza que no sean toxicos.



Para reportar actividadas ilegales u obtener más información de la prevención de contaminación llamar al :

1 (800) CLEANUP

www.1800cleanup.org

San Bernardino County STORMWATER PROGRAM

Storm Drain Signage SD-13



Design Objectives

- Maximize Infiltration
- Provide Retention
- Slow Runoff
- Minimize Impervious Land Coverage
- ☑ Prohibit Dumping of Improper Materials
- Contain Pollutants
- Collect and Convey

Description

Waste materials dumped into storm drain inlets can have severe impacts on receiving and ground waters. Posting notices regarding discharge prohibitions at storm drain inlets can prevent waste dumping. Storm drain signs and stencils are highly visible source controls that are typically placed directly adjacent to storm drain inlets.

Approach

The stencil or affixed sign contains a brief statement that prohibits dumping of improper materials into the urban runoff conveyance system. Storm drain messages have become a popular method of alerting the public about the effects of and the prohibitions against waste disposal.

Suitable Applications

Stencils and signs alert the public to the destination of pollutants discharged to the storm drain. Signs are appropriate in residential, commercial, and industrial areas, as well as any other area where contributions or dumping to storm drains is likely.

Design Considerations

Storm drain message markers or placards are recommended at all storm drain inlets within the boundary of a development project. The marker should be placed in clear sight facing toward anyone approaching the inlet from either side. All storm drain inlet locations should be identified on the development site map.

Designing New Installations

The following methods should be considered for inclusion in the project design and show on project plans:

- Provide stenciling or labeling of all storm drain inlets and catch basins, constructed or modified, within the project area with prohibitive language. Examples include “NO DUMPING

CASQA
CALIFORNIA STORMWATER QUALITY ASSOCIATION

– DRAINS TO OCEAN" and/or other graphical icons to discourage illegal dumping.

- Post signs with prohibitive language and/or graphical icons, which prohibit illegal dumping at public access points along channels and creeks within the project area.

Note - Some local agencies have approved specific signage and/or storm drain message placards for use. Consult local agency stormwater staff to determine specific requirements for placard types and methods of application.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. If the project meets the definition of "redevelopment", then the requirements stated under " designing new installations" above should be included in all project design plans.

Additional Information

Maintenance Considerations

- Legibility of markers and signs should be maintained. If required by the agency with jurisdiction over the project, the owner/operator or homeowner's association should enter into a maintenance agreement with the agency or record a deed restriction upon the property title to maintain the legibility of placards or signs.

Placement

- Signage on top of curbs tends to weather and fade.

- Signage on face of curbs tends to be worn by contact with vehicle tires and sweeper brooms.

Supplemental Information

Examples

- Most MS4 programs have storm drain signage programs. Some MS4 programs will provide stencils, or arrange for volunteers to stencil storm drains as part of their outreach program.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

6.4.2 PRECIPITATION DATA

NOAA Atlas 14, Volume 6, Version 2
Location name: Chino, California, USA*
Latitude: 33.985°, Longitude: -117.7096°
Elevation: 638 ft**
* source: ESRI Maps
** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sarah Dietz, Sarah Heim, Lillian Hiner, Kazungu Maitaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Carl Trypaluk, Dale Unruh, Fenglin Yan, Michael Yekta, Tan Zhao, Geoffrey Bonnin, Daniel Brewer, Li-Chuan Chen, Tye Parzybok, John Yarchoan

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.120 (0.100-0.145)	0.156 (0.130-0.189)	0.205 (0.170-0.249)	0.245 (0.202-0.300)	0.302 (0.240-0.382)	0.346 (0.269-0.448)	0.392 (0.297-0.521)	0.440 (0.324-0.603)	0.507 (0.358-0.726)	0.560 (0.382-0.831)
10-min	0.172 (0.144-0.208)	0.224 (0.187-0.271)	0.294 (0.244-0.356)	0.352 (0.290-0.431)	0.432 (0.344-0.548)	0.496 (0.386-0.643)	0.562 (0.426-0.747)	0.631 (0.465-0.864)	0.727 (0.513-1.04)	0.803 (0.547-1.19)
15-min	0.208 (0.174-0.251)	0.271 (0.226-0.328)	0.355 (0.296-0.431)	0.425 (0.351-0.521)	0.523 (0.416-0.663)	0.600 (0.467-0.777)	0.679 (0.516-0.903)	0.763 (0.562-1.04)	0.879 (0.620-1.26)	0.971 (0.661-1.44)
30-min	0.304 (0.254-0.368)	0.396 (0.331-0.480)	0.520 (0.433-0.631)	0.622 (0.513-0.762)	0.765 (0.609-0.970)	0.877 (0.684-1.14)	0.994 (0.755-1.32)	1.12 (0.823-1.53)	1.29 (0.908-1.84)	1.42 (0.968-2.11)
60-min	0.450 (0.376-0.544)	0.586 (0.489-0.710)	0.769 (0.640-0.933)	0.921 (0.760-1.13)	1.13 (0.902-1.44)	1.30 (1.01-1.68)	1.47 (1.12-1.96)	1.65 (1.22-2.26)	1.90 (1.34-2.72)	2.10 (1.43-3.12)
2-hr	0.674 (0.563-0.815)	0.878 (0.733-1.06)	1.14 (0.952-1.39)	1.36 (1.12-1.66)	1.65 (1.32-2.09)	1.87 (1.46-2.43)	2.10 (1.59-2.79)	2.33 (1.72-3.19)	2.64 (1.87-3.78)	2.89 (1.96-4.28)
3-hr	0.851 (0.711-1.03)	1.11 (0.924-1.34)	1.44 (1.20-1.75)	1.70 (1.41-2.09)	2.06 (1.64-2.61)	2.33 (1.82-3.02)	2.60 (1.98-3.46)	2.88 (2.13-3.95)	3.26 (2.30-4.66)	3.54 (2.41-5.26)
6-hr	1.19 (0.995-1.44)	1.55 (1.29-1.87)	2.00 (1.67-2.43)	2.37 (1.95-2.90)	2.85 (2.27-3.62)	3.22 (2.51-4.18)	3.59 (2.73-4.78)	3.97 (2.92-5.43)	4.47 (3.16-6.40)	4.86 (3.31-7.20)
12-hr	1.57 (1.31-1.90)	2.04 (1.70-2.47)	2.65 (2.21-3.22)	3.15 (2.60-3.85)	3.81 (3.04-4.84)	4.32 (3.37-5.60)	4.84 (3.67-6.43)	5.36 (3.96-7.35)	6.08 (4.29-8.69)	6.63 (4.51-9.83)
24-hr	2.05 (1.81-2.36)	2.68 (2.37-3.09)	3.51 (3.10-4.07)	4.20 (3.67-4.90)	5.14 (4.35-6.20)	5.88 (4.87-7.23)	6.63 (5.37-8.35)	7.41 (5.84-9.60)	8.48 (6.42-11.4)	9.32 (6.82-13.0)
2-day	2.49 (2.21-2.88)	3.33 (2.94-3.84)	4.45 (3.92-5.15)	5.38 (4.71-6.28)	6.69 (5.66-8.06)	7.72 (6.40-9.50)	8.80 (7.12-11.1)	9.93 (7.82-12.9)	11.5 (8.71-15.5)	12.8 (9.34-17.8)
3-day	2.70 (2.38-3.11)	3.64 (3.22-4.20)	4.93 (4.34-5.70)	6.01 (5.25-7.01)	7.53 (6.37-9.07)	8.74 (7.24-10.7)	10.0 (8.10-12.6)	11.3 (8.94-14.7)	13.2 (10.0-17.9)	14.8 (10.8-20.6)
4-day	2.92 (2.59-3.37)	3.98 (3.52-4.59)	5.41 (4.77-6.26)	6.61 (5.78-7.71)	8.30 (7.02-10.0)	9.64 (7.99-11.9)	11.0 (8.94-13.9)	12.5 (9.87-16.2)	14.6 (11.1-19.7)	16.3 (11.9-22.7)
7-day	3.34 (2.95-3.85)	4.55 (4.02-5.26)	6.19 (5.46-7.16)	7.55 (6.60-8.81)	9.44 (7.99-11.4)	10.9 (9.07-13.5)	12.5 (10.1-15.7)	14.1 (11.1-18.3)	16.3 (12.4-22.0)	18.1 (13.3-25.3)
10-day	3.65 (3.23-4.21)	4.99 (4.41-5.76)	6.78 (5.98-7.86)	8.27 (7.23-9.65)	10.3 (8.74-12.5)	11.9 (9.90-14.7)	13.6 (11.0-17.1)	15.3 (12.1-19.9)	17.7 (13.4-23.9)	19.6 (14.4-27.4)
20-day	4.38 (3.87-5.05)	6.05 (5.35-6.98)	8.29 (7.31-9.60)	10.2 (8.88-11.9)	12.8 (10.8-15.4)	14.8 (12.3-18.2)	16.9 (13.7-21.3)	19.1 (15.1-24.8)	22.2 (16.8-29.9)	24.6 (18.0-34.4)
30-day	5.23 (4.63-6.04)	7.26 (6.41-8.38)	10.0 (8.82-11.6)	12.3 (10.8-14.4)	15.6 (13.2-18.8)	18.1 (15.0-22.3)	20.8 (16.9-26.3)	23.7 (18.7-30.7)	27.7 (21.0-37.4)	30.9 (22.6-43.2)
45-day	6.18 (5.47-7.13)	8.56 (7.56-9.88)	11.8 (10.4-13.7)	14.6 (12.8-17.1)	18.7 (15.8-22.5)	21.9 (18.2-27.0)	25.4 (20.5-32.0)	29.1 (22.9-37.7)	34.4 (26.0-46.4)	38.7 (28.3-54.0)
60-day	7.12 (6.30-8.21)	9.78 (8.65-11.3)	13.5 (11.9-15.7)	16.8 (14.7-19.6)	21.5 (18.2-25.9)	25.4 (21.1-31.3)	29.6 (24.0-37.3)	34.2 (27.0-44.3)	40.8 (30.9-55.1)	46.4 (33.9-64.7)

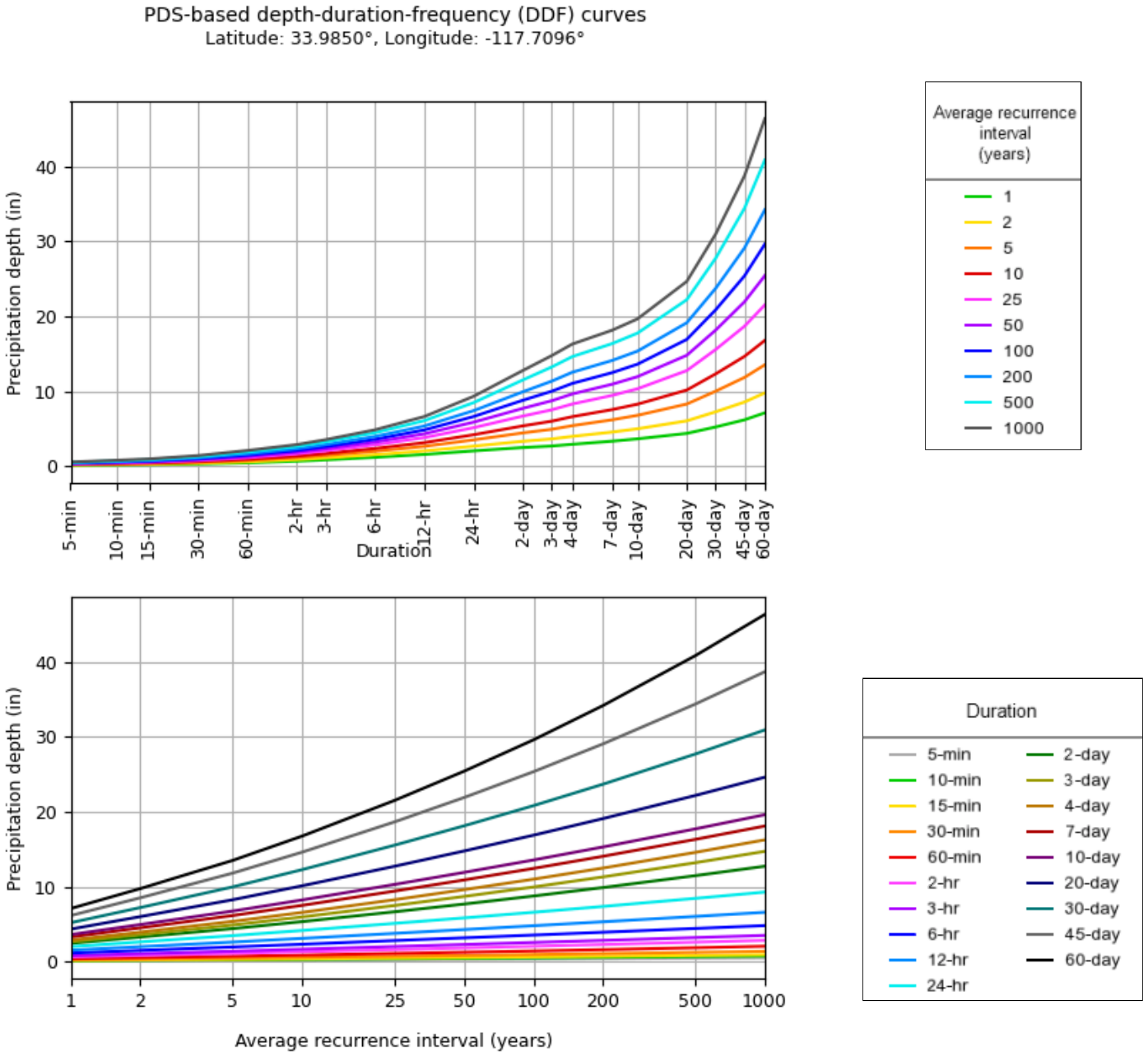
[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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PF graphical



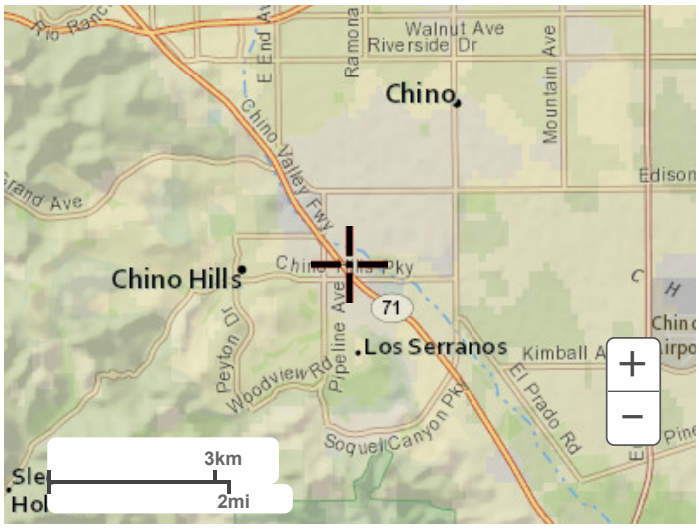
NOAA Atlas 14, Volume 6, Version 2

Created (GMT): Tue Dec 10 17:49:22 2024

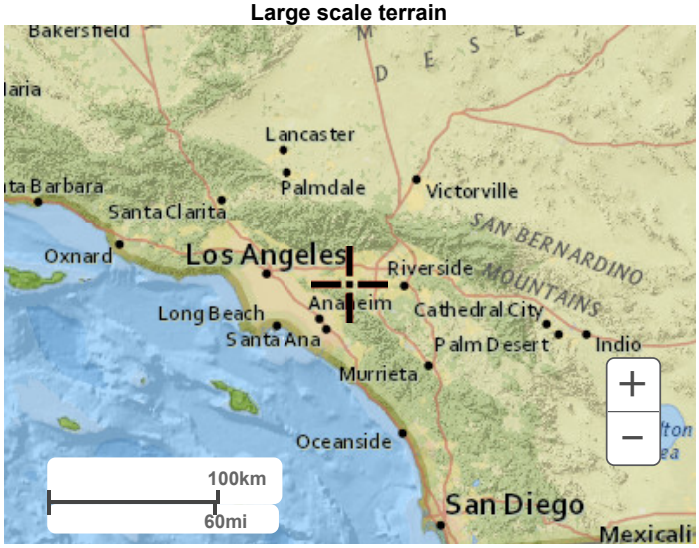
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Maps & aerials

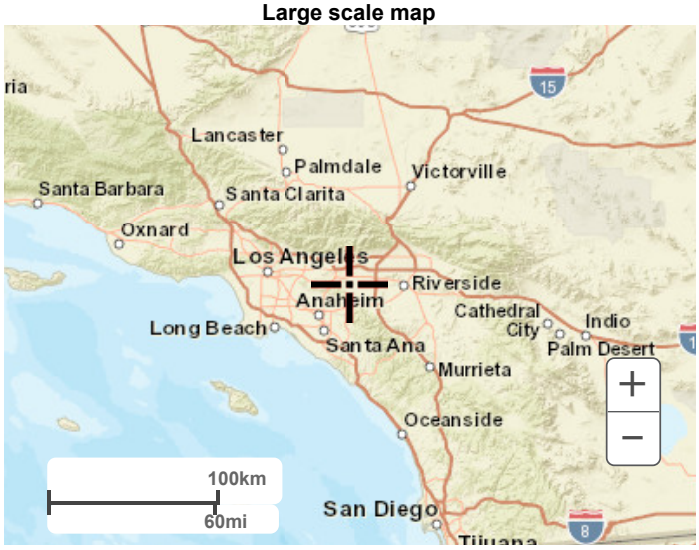
Small scale terrain



Large scale terrain



Large scale map



Large scale aerial



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US Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
National Water Center
1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

Disclaimer

6.4.3 SUMMERY WATER QUALITY AND HMOD MITIGATION

HYDROMOD MITIGATION VOLUME, FLOW AND TC

VOLUME		
V2pre	0.1836	ac-ft
V2post	0.7991	ac-ft
Delta V2 (Pre vs Post)	0.5755	ac-ft
Delta V2	25071	cu-ft

FLOW (VELOCITY)		
Q2 (Pre-Development) =	2.51	cfs
Q2 (Post-Development) =	6.757	cfs
Q2 reduction to meet HCOC requirements	3.91	cfs
Max. Q2 allowed from site =	2.85	cfs
Actual Q2 leaving site =	2.32	cfs

TIME OF CONCENTRATION (TC)		
Hour of Peak flow pre-detention	16.167	hr
Hour of Peak flow post-detention	16.333	hr
Addition of TC due to detention	0.166	hr
	9.96	min.
Postdevelopment TC per Rational method =	8.04	min.
TC after detention =	18.00	min.
TC at Predevelopment condition =	15.75	min.

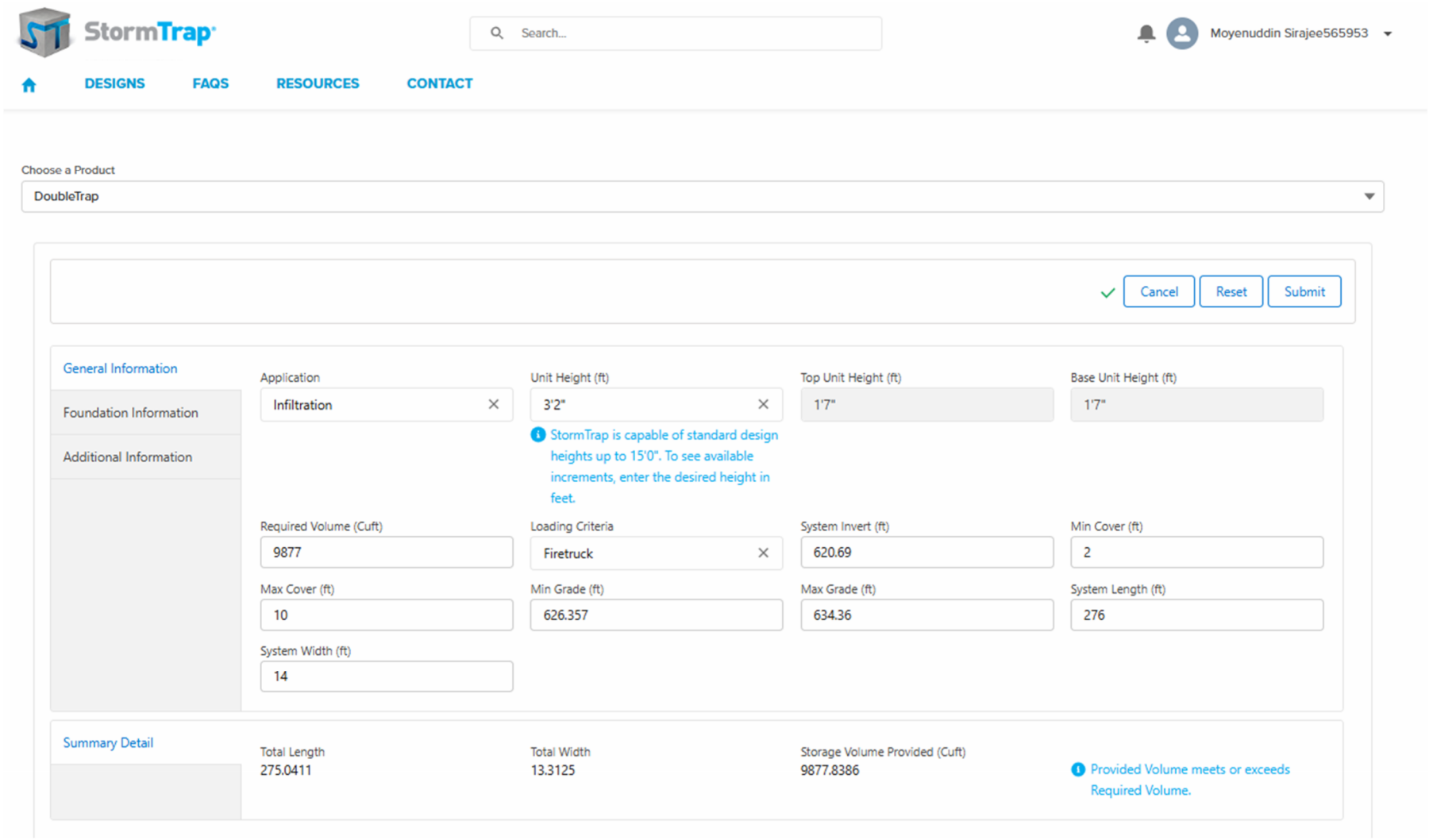
SUPPORTING DOCUMENT AND CALCULATIONS

BMP (UNDERGROUND STORAGE) SIZING CALCULATION AND SUPPORTING DOCUMENTS

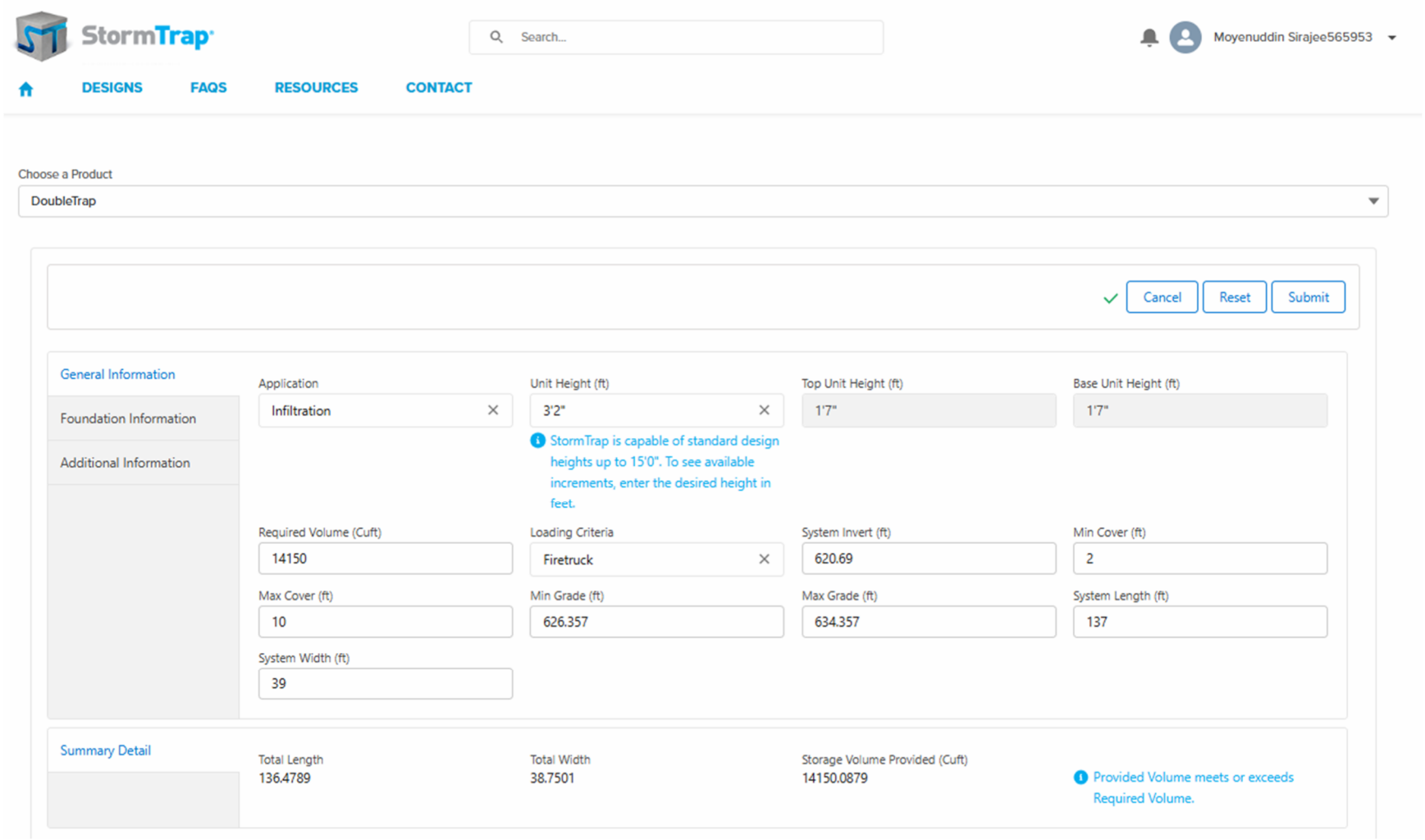
Storm Trap sizing Calculations				
Unit ID	Size			Volume
	L	W	D	cu-ft
Unit-1	275.04	13.31	3.2	9878
Unit-2	136.5	38.75	3.2	14150
Infiltred Volume in 3 hour (0.8 in/hr) =				1790
Total Volume Designed to retain on-site =				25818
Minimum Volume required to retain on-site =				25071

UNDERGROUND STORAGE CHAMBER
(BY STORM TRAP)

STORM TRAP SIZING (VOLUME CALCULATION) FOR UNIT-1



STORM TRAP SIZING (VOLUME CALCULATION) FOR UNIT-2



INFILTRATION TEST REPORT
(BY ENGEO INC.)



CORPORATE CENTER CHINO
CHINO, CALIFORNIA

PRELIMINARY GEOTECHNICAL EXPLORATION

SUBMITTED TO
Mr. Clarke Campion
BCT Dev Acquisition Co, LLC
130 Newport Center Dr.
Newport Beach, CA 92660

PREPARED BY
ENGEO Incorporated

July 24, 2024

PROJECT NO.
25751.000.001

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ENGEO
Expect Excellence

Project No.
25751.000.001

July 24, 2024

Mr. Clarke Campion
BCT Dev Acquisition Co, LLC
130 Newport Center Dr.
Newport Beach, CA 92660

Subject: Corporate Center Chino
Corporate Center Avenue
Chino, California

PRELIMINARY GEOTECHNICAL EXPLORATION

Dear Mr. Campion:

ENGEO prepared this preliminary geotechnical report for BCT Dev Acquisition Co, LLC as outlined in our agreement dated May 21, 2024. This report presents the results of our preliminary geotechnical exploration for the project, as well as our preliminary recommendations to support planning of the proposed residential development.

It is our opinion, from a geotechnical engineering viewpoint, that the site is suitable for the proposed development, provided the preliminary recommendations and guidelines presented in this report are implemented during initial project planning. As plans progress, a design-level geotechnical exploration should be conducted to further evaluate the geotechnical hazards identified in this report and to develop design-level geotechnical recommendations for grading and foundation design.

We are pleased to have been of service on this project and are prepared to consult further with you and your design team as the project progresses. If you have any questions or comments regarding this preliminary report, please call and we will be glad to discuss them with you.

Sincerely,

ENGEO Incorporated

Tania Zakaria

Julia Moriarty, GE

REGISTERED PROFESSIONAL ENGINEER
JULIA A. MORIARTY
No. 2679
GEOTECHNICAL
STATE OF CALIFORNIA

tz/sb/jam/dt

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APPENDIX B – CPT Data (KTE, 2024)

1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

The purpose of this preliminary geotechnical report is to provide a preliminary assessment of geotechnical conditions and hazards associated with the site and to present preliminary recommendations to support planning of the proposed residential development. Our services included the following tasks.

- Review available literature and geologic maps
- Review select historical aerial photographs
- Perform initial subsurface field exploration and percolation testing
- Analyze geotechnical data collected
- Develop preliminary geotechnical recommendations
- Develop recommendations for design-level study
- Prepare a preliminary geotechnical report

For our use, we received a Conceptual Site Plan dated May 29, 2024, which depicts the planned development of the site to be multi-family residential rowhouse-style buildings, a recreational area with pool, common areas, and associated landscaping, streets, utilities, and parking areas.

This report was prepared for the exclusive use of our client and their consultants for design of this project. In the event that any changes are made in the character, design, or layout of the development, we should be contacted to review the conclusions and recommendations contained in this report to evaluate whether modifications are recommended. This document may not be reproduced in whole or in part by any means whatsoever, nor may it be quoted or excerpted without our express written consent.

1.2 PROJECT LOCATION

The approximately 4.1-acre site is identified by Assessor's Parcel Number (APN) 102-521-129 and is located at 4401 and 4345 Corporate Center Avenue in Chino, California, as shown in the Vicinity Map, Figure 1. The site is bounded by a hotel to the west, Corporate Center Avenue to the north, a parking lot to the east, and State Route 71 to the south.

The site is presently vacant and covered with seasonal grasses. We show the boundary of the project site and approximate locations of our preliminary field exploration in the Site Plan, Figure 2.

1.3 PROPOSED PROJECT DEVELOPMENT

Based on the provided conceptual site plan (TCA Architects, 2024), the planned development is anticipated to consist of construction of multi-family rowhouse-style buildings (three-stories high, total 108 units), paved drive aisles, parking spaces, a recreational area with a pool, and landscaped recreational common areas.

2.0 FINDINGS

2.1 SITE HISTORY

We reviewed select available aerial photographs and topographic maps of the site, dated between 1896 and 2023. We obtained the photographs from Environmental Data Resources, Inc. (EDR) during preparation of our concurrent Phase I Environmental Site Assessment (ENGEO, 2024), and from other publicly available sources.

Beginning in 1902, the site is depicted in topographic maps southwest of Chino Creek. In the 1933 topographic map, Pipeline Avenue is mapped west of the site extending north-south, Eucalyptus Avenue is mapped north of the site extending east-west, Ramona Avenue is mapped east of the site extending north-south, and a road south of the site is labeled Carbon Canyon Road to the west and Merrill Avenue to the east. A dam is mapped south of the site near an unlabeled lake, and the site is mapped outside the City of Chino, with the City boundary ending approximately 1 mile northeast of the site.

The site appears to be used for agriculture in aerial photographs from 1938 to 1975. Residential and agricultural use is shown in aerial photographs beginning in 1938 and in topographic maps beginning in 1942, with the Los Serranos residential development expanding southwest of the site in 1966.

State Route 71 is shown south of the site in topographic maps beginning in 1942.

In a 1963 aerial photograph, an oval-shaped clearing is visible northeast of the site, which appears to be a racetrack. This area is labeled “Gaging Station” in topographic maps between 1967 and 1981. The 1967 topographic map also depicts a fire station northwest of the site, a trailer park and Chino Sewage Disposal east of the site, and a well northeast of the site.

In 1981, Merrill Avenue is also labeled as State Route 142 (Chino Hills Parkway) south of the site in topographic maps.

New commercial developments appear north, west, and east of the site in the 1985 aerial photograph, and commercial developments continue to expand between the 1980s and 2000s. Additional residential development is also visible south of the site beginning in 1989.

The site appears largely unchanged between 1985 and 2022. The City of Chino Hills is newly labeled northeast of the site in the 2012 topographic map.

2.2 SURFACE CONDITIONS

Our review of the topographic maps shows that the site is relatively flat. Google Earth shows the ground surface ranges from Elevation 640 feet (Datum: NAVD88) in the northwest to approximately Elevation 635 feet to the southeast. During our most recent site visit on July 12, 2024, we observed that the site is vacant and blanketed with seasonal vegetation.

2.3 PRELIMINARY FIELD EXPLORATION

Our field exploration included advancing cone penetration test (CPTs) at five locations and drilling three borings that were converted to conduct percolation tests at the locations shown in Site Plan,

Figure 2. We performed our field exploration on July 11 and 12, 2024. The location and elevations of our explorations are approximate and were estimated by field personnel using GPS on cellular phones; they should be considered accurate only to the degree implied by the method used.

2.3.1 Borings

We observed drilling of three borings at the locations shown in the Site Plan, Figure 2. These were later converted into percolation test holes. An ENGEO geologist observed the drilling and logged the subsurface conditions at each location. We retained a truck-mounted CME 75 drill rig and crew to advance the borings using 8-inch-diameter hollow-stem auger methods. The borings were advanced to a depth to 20 feet below existing grade. We permitted and backfilled the borings in accordance with the requirements of San Bernardino County.

We recorded the blow counts of the sampler as they advanced into the bottom of the boring with a 140-pound hammer falling 30 inches. The Modified California sampler was driven 18 inches and the number of blows was recorded for each 6 inches of penetration. Unless otherwise indicated, the blows per foot recorded on the boring log represent the accumulated number of blows to drive the sampler through the last 1 foot of penetration; the blow counts have not been converted using any correction factors. The logs depict subsurface conditions at the exploration locations during the exploration; however, subsurface conditions may vary with time. The boring logs are included in Appendix A.

2.3.2 Cone Penetration Tests

We retained the services of a licensed contractor operating a truck-mounted CPT rig to advance CPTs at five locations, as shown in Figure 2. The CPTs were advanced to depths ranging from approximately 50 to 91 feet below the ground surface (bgs), where each met refusal to further advancement on very dense sand or very stiff silt.

The CPT has a 20-ton compression-type cone with a 15-square-centimeter (cm^2) base area, an apex angle of 60 degrees, and a friction sleeve with a surface area of 225 cm^2. The cone, connected with a series of rods, is pushed into the ground at a constant rate. Cone readings are taken at approximately 5-cm intervals with a penetration rate of 2 cm per second in accordance with ASTM D5778. Measurements include the tip resistance to penetration of the cone (Qc), the resistance of the friction sleeve (F_s), and pore pressure (U) (Robertson and Campanella, 1988). Additionally, one CPT was a seismic CPT in which in situ shear wave velocities were measured in 5-foot increments. CPT logs are presented in Appendix B.

2.3.3 Percolation Testing

Three percolation test holes (1-P1 through 1-P3) were installed and field tests were performed within the vicinity of the three proposed stormwater management facilities. According to information provided to us by Fuscoe Engineering, Inc, we understand that the design of the stormwater management facilities are proposed to be at a depth of approximately 20 feet below the ground surface; therefore, we targeted strata within that zone to run our percolation tests. The locations of our percolation tests are shown in the Site Plan, Figure 2.

We performed the percolation tests in general accordance with the procedures described in the 2011 Riverside County Design Handbook for Low Impact Development Best Management Practices, as recommended by the San Bernadino County Technical Guidance Document (2011) for recommended infiltration investigation methods.

An ENGEO geologist observed the drilling and noted that the soil at the bottom of the test holes 1-P1 and 1-P2 consisted of silty sand, and the soil at the bottom of test hole 1-P3 consisted of poorly graded sand, based on visual observation of the borehole cuttings. After drilling was complete, we placed a 2-inch-thick layer of pea gravel in the bottoms of the holes. We then placed a 2-inch-diameter perforated PVC pipe in the center of the holes and backfilled the annulus between the pipe and the boring sidewalls with gravel. The holes were presoaked overnight prior to performing the percolation tests. Municipal drinking water was used for the percolation testing. For our test purposes, we assume the percolation rate of drinking water is similar to stormwater.

At the start of each test, the hole was filled with water. The water level was then measured at appropriate intervals until the percolation rate stabilized. At the end of each interval, additional water was added, as needed, to reset the water level.

2.3.3.1 Percolation Testing Results

The results of our field percolation testing are presented in Table 2.3.3.1-1, which includes the assumed infiltration media soil type according to the Unified Soil Classification System (USCS), test depths, field-measured percolation rates, and estimated infiltration rates using Porchet's method (Inverse Borehole Method). Field-measured percolation rates have no reduction or safety factors applied. The assumed soil type is based on visual field classification.

TABLE 2.3.3.1-1: Percolation Test Results and Calculated Infiltration Rates

LOCATION	TEST DEPTH (feet)	SOIL PROFILE	FIELD PERCOLATION RATE (in/hr)	CALCULATED INFILTRATION RATE (in/hr)
1-P1	20	Silty Sand (SM)	263	2
1-P2	20	Silty Sand (SM)	162	1
1-P3	20	Poorly Graded Sand (SP)	372	3

The field percolation rates and calculated infiltration rates are unfactored data and the design engineer should consider appropriate conversion factors or factors of safety when designing the stormwater management facilities. The rates reported above are based on the conditions at the location, depth, and time of the test. Actual rates can be affected by changes in subsurface conditions, test methodology, time of year, and the rate and depth at which water is applied.

Appropriate engineering judgment should be applied to the use of these test data for stormwater infiltration, including the feasibility of on-site infiltration by the designer.

2.4 SUBSURFACE CONDITIONS

Based on our interpretation of the CPT data and the percolation test holes, the site soil is predominantly comprised of soft silt in the upper 2 to 4 feet, followed by medium stiff to stiff silt with varying amounts of sand and medium dense sand and silty sand.

2.5 GROUNDWATER CONDITIONS

We observed static groundwater in several of our subsurface explorations. Based on our review of nearby wells on the GeoTracker and Department of Water Resources Online Water Data Library, groundwater was also observed in nearby wells. We summarize groundwater depth observations in the table below,

TABLE 2.5-1: Depth to Groundwater

EXPLORATION LOCATION	APPROX. DEPTH TO GROUNDWATER (feet)
CPT-1	15
CPT-2A	34
CPT-3	38
CPT-4	17
Well 0 to ¼ mile southwest	10.1 to 13.7
Well 0 to ¼ mile southwest	19.7 to 21.9
Well ¼ to ½ mile southwest	13.1 to 17.1
Well ½ to 1 mile northwest	41.2 to 49.2

Fluctuations in the level of groundwater may occur due to variations in rainfall, irrigation practice, and other factors not evident at the time measurements were made.

2.6 REGIONAL AND LOCAL GEOLOGY

The site is located within the northern portion of the Peninsular Ranges geomorphic province, near the western boundary of the Chino Basin. The Chino Basin contains Pleistocene and Holocene sedimentary alluvial units with depositional control from the Santa Ana River. Regional mapping (Morton et al., 2001), as shown in Figure 3, identifies the eastern and central portion of the site to be underlain by Holocene and late Pleistocene Young axial-channel deposits (Qyaa), consisting of moderately consolidated silt, sand, and gravel deposits. The westernmost portion of the site is underlain by middle Holocene Young alluvial channel deposits (Qyf3a), Unit 3, consisting of slightly to moderately consolidated silt, sand, and coarse-grained sand to bouldery alluvial-fan deposits having slightly to moderately dissected surfaces.

2.7 SITE SEISMICITY

The Southern California area contains numerous active earthquake faults. An active fault is defined by the California Geologic Survey as one that has had surface displacement within Holocene time (about the last 11,700 years) (CGS, 2018).

The site is not located within a currently designated Alquist-Priolo Earthquake Fault Zone and no known surface expression of active faults is believed to exist within the site. Fault rupture through the site, therefore, is not anticipated.

Numerous small earthquakes occur every year in the Southern California Region, and larger earthquakes have been recorded and can be expected to occur in the future. Figure 4 shows the approximate locations of these faults and significant historic earthquakes recorded within the Southern California Region. The Uniform California Earthquake Rupture Forecast (UCERF3) (Field et al, 2015) estimates the 30-year probability for a magnitude 6.7 or greater earthquake in Southern California at approximately 93 percent, considering the known active seismic sources in the region.

To evaluate nearby active faults that are capable of generating strong seismic ground shaking at the site, we utilized the USGS Unified Hazard Tool and disaggregated the hazard at the peak ground acceleration (PGA) for a 2,475-year return period, with the resulting faults listed below in Table 2.7-1.

TABLE 2.7-1: Faults Considered Capable of Producing Strong Ground Shaking at the Site*
Site Latitude: 34.1481 Longitude: -117.4561

SOURCE NAME	RUPTURE DISTANCE, R_{RUP}		MOMENT MAGNITUDE, M_W
	(km)	(mi)	
Chino [1] (1)	1.77	1.09	6.32
Chino [1] (2)	3.99	2.48	6.60
Chino [1] (3)	8.48	5.27	6.85
Whittier [1] (3)	10.55	6.56	7.43
Whittier [1] (2)	10.57	6.57	7.21
Sierra Madre (0)	16.63	10.33	7.71
San Jacinto (San Bernardino) (0)	36.26	22.53	8.11
San Andreas (San Bernardino, north) (0)	39.38	24.48	8.01

*Based on USGS Earthquake Hazard Toolbox: NSHM Conterminous U.S. 2018

These results represent known fault sources contributing at least 1 percent to the seismic hazard at the site considering spectral periods ranging from the peak ground acceleration (PGA) to 5 seconds for the given return period. The rupture distances (R_{RUP}) and mean moment magnitudes (M_W) listed are based on values assigned according to the 2018 NSHM, and the numbers in parentheses after the fault names correspond to fault subsections assigned by the NSHM. Note that the above fault table is not an exhaustive list and other faults in the region may generate seismic shaking at the project site.

The Chino Fault, a branch of the Elsinore Fault Zone, is located one mile west of the project site, and extends from the northwest to the southeast along the western boundary of the Chino Basin. It is, in part, responsible for uplift of the Puente Hills and Chino Hills, which form a continuous belt of low hills west of the Chino Fault.

In 2014, the Working Group on California Earthquake Probabilities estimated the 30-year likelihood of one or more M_W 6.7 or greater earthquake events in the Southern California region at approximately 93 percent, considering the known seismic sources in the region.

3.0 GEOLOGIC AND GEOTECHNICAL HAZARDS

3.1 NEAR-SURFACE LOOSE ALLUVIAL DEPOSITS

Based on subsurface soil conditions correlated or encountered in our CPTs and borings, respectively, the site is underlain by loose alluvial deposits in the upper 2 to 4 feet of the subsurface. Loose soil may undergo excessive total and differential settlement unless mitigated. We recommend mitigation of the loose near-surface soil by overexcavating and recompacting as recommended in Section 4.1.2 of this report. The limits and depths of these materials should be further explored during the design-level geotechnical exploration.

3.2 EXPANSIVE SOIL

We observed lenses of potentially expansive silty clay near the surface of the site in the CPTs. Expansive soil changes in volume with changes in moisture. They can shrink or swell and cause heaving and cracking of slabs-on-grade, pavements, and structures founded on shallow foundations. Building damage due to volume changes associated with expansive soil can be reduced by: (1) using a rigid mat foundation that is designed to resist the settlement and heave of expansive soil, (2) deepening the foundations to below the zone of moisture fluctuation, i.e., by

using deep footings or drilled piers, and/or (3) using footings at normal shallow depths but bottomed on a layer of select fill having a low expansion potential.

We recommend evaluating the expansion potential of near-surface soil during the design-level study. Recommendations should be provided to reduce impacts on foundations, pavements, and surface improvements.

3.3 SEISMIC HAZARDS

Potential seismic hazards resulting from a nearby moderate to major earthquake can generally be classified as primary and secondary. The primary effect is ground rupture, also called surface faulting. The common secondary seismic hazards include ground shaking, liquefaction, dynamic densification settlement, and ground lurching. The following sections present a discussion of these hazards as they apply to the site.

Other hazards were also assessed as part of this study. Based on topographic and lithologic data, the risk of regional subsidence or uplift, lateral spreading, landslides, tsunamis, or seiches are considered low to negligible at the site.

3.3.1 Ground Rupture

Since there are no known active faults crossing the property and the site is not located within an Earthquake Fault Special Study Zone, it is our opinion that ground rupture is unlikely at the subject property.

3.3.2 Ground Shaking

An earthquake of moderate to high magnitude generated within the Southern California region could cause considerable ground shaking at the site, similar to that which has occurred in the past. To mitigate the shaking effects, structures should be designed using sound engineering judgment and the latest edition of the California Building Code (CBC) requirements, as a minimum. Seismic design provisions of current building codes generally prescribe minimum lateral forces, applied statically to the structure, combined with the gravity forces of dead and live loads. The code-prescribed lateral forces are generally considered to be substantially smaller than the comparable forces that would be associated with a major earthquake. Therefore, structures should be able to: (1) resist minor earthquakes without damage, (2) resist moderate earthquakes without structural damage but with some non-structural damage, and (3) resist major earthquakes without collapse but with some structural, as well as non-structural damage. Conformance to the current building code recommendations does not constitute any kind of guarantee that significant structural damage would not occur in the event of a maximum magnitude earthquake; however, it is reasonable to expect that a well-designed and well-constructed structure will not collapse or cause loss of life in a major earthquake (SEAOC, 1996). Section 3.7 presents California Building Code (CBC, 2022) seismic design parameters.

3.3.3 Liquefaction

The site has not been evaluated/mapped by the California Geological Survey for liquefaction hazards. Soil liquefaction results from loss of strength during cyclic loading, such as imposed by earthquakes. The soil most susceptible to liquefaction is clean, loose, saturated, uniformly graded fine sand below the groundwater table. Empirical evidence indicates that loose silty sand is also potentially liquefiable. When seismic ground shaking occurs, the saturated sandy soil is subjected

to cyclic shear stresses that can cause excess pore-water pressures to develop due to volumetric repositioning of soil particles. As excess pore-water pressures approach the effective confining stress from the overlying soil, the sand will experience a reduction in effective shear strength and may experience deformation. If the pore-water pressures exceed the effective confining stress, the sand particles are free to move within the soil-water matrix without significant resistance, at which point the soil is said to have liquefied. If the sand consolidates or vents to the surface (known as “sand boils”) during and following liquefaction, ground settlement and surface deformation may occur. In addition to liquefaction of sandy materials, clayey soil can also experience “cyclic softening” or strength loss due to cyclic loading. Since the site is composed of many thick clay layers, we considered this effect in our liquefaction screening process and analyses.

The sand layers encountered in our explorations were generally loose to medium dense. As described in Section 2.5, groundwater was reported at a minimum depth of approximately 15 feet at the site. To evaluate the liquefaction potential of the site soils, we performed liquefaction screening analysis on the five CPTs advanced at the site.

We evaluated the liquefaction potential using CPT-based liquefaction analysis methods. We utilized the commercially available software program CLiq v.3.5.2.22 and incorporated NCEER (1998), Idriss and Boulanger (2008), and Robertson (2009). We analyzed the liquefaction potential of the CPTs using the field high groundwater elevation of 15 feet, an earthquake magnitude of 6.68, and mapped MCEG peak ground acceleration (PGAM) of 0.86g for a Site Class D.

Based on our preliminary assessment, we estimate liquefaction settlements up to ¾ inch. Potential liquefaction settlement shall be further evaluated during the design-level study based on borings and laboratory testing.

3.3.4 Dynamic Densification Settlement

Densification of loose and generally clean granular soil above the groundwater surface can cause settlement of the ground surface due to earthquake-induced vibrations. We performed a preliminary CPT-based analysis of potential dynamic densification settlement layers within the probed depths and above the ground water table using the method proposed by Robertson and Shao (2010).

Based on our preliminary assessment, we estimate dry sand settlements up to ½ inch. Potential dynamic densification settlement shall be further evaluated during the design-level study based on borings and laboratory testing.

3.3.5 Ground Lurching

Ground lurching is a result of the rolling motion imparted to the ground surface during energy released by an earthquake. Such rolling motion can cause ground cracks to form in weaker soil. The potential for the formation of these cracks is considered greater at contacts between deep alluvium and bedrock. Such an occurrence is possible at the site as in other locations in the Southern California region, but based on the site location, it is our opinion that the offset is expected to be minor. We provide recommendations for foundation and pavement design in this report that are intended to reduce the potential for adverse impacts from lurch cracking.

3.4 COMPRESSIBLE SOIL

Soft saturated soil is subject to settlement when a new loading is introduced by structures or fill. Based on our review of boring and CPT logs, soft to medium stiff saturated clay was not encountered below the groundwater. Soft to medium stiff clay deposits may undergo settlement in response to new loads. We performed load-induced settlement analyses for the planned residential structures based on an assumed structural mat foundation type with an anticipated average uniform loading of 500 pounds per square foot (psf), and approximately 2 feet of fill. Based on the above conditions, we estimate less than ¼ inch of total load-induced settlement may occur. Once building project plans and building loads are further defined, we can reassess our settlement analyses. If changes to the planned development result in changes to the above assumptions, we should also review and update our analysis as needed.

3.5 FLOODING

Based on site elevation and distance from water sources, flooding is not expected at the subject site. The site is not mapped within the FEMA 100-Year Flood Zone or the 500-Year Flood Zone. FEMA's flood hazard zones are established based on historical data and may not fully predict the future areas that are most at risk of flooding or the frequency of future flood events.

The civil engineer should review pertinent information relating to possible flood levels for the subject site based on final pad elevations and provide appropriate design measures for development of the project, if recommended.

3.6 SOIL CORROSION POTENTIAL

Our scope did not include sampling and testing for corrosion potential as part of this preliminary study. Representative samples of the foundation grade soil should be obtained during the design-level study to determine the potential for corrosion on buried metal and the potential for sulfate attack on foundation concrete and buried pipelines. If necessary, a corrosion consultant can determine if special design considerations are necessary in accordance with the most recent edition of the California Building Code (CBC).

3.7 2022 CBC SEISMIC DESIGN PARAMETERS

The 2022 CBC utilizes seismic design criteria established in the ASCE/SEI "Standard Minimum Design Loads and Associated Criteria for Buildings and Other Structures," (ASCE 7-16). Based on the seismic CPT shear wave measurements, we characterized the site as Site Class D.

ASCE 7-16 requires a site-specific ground-motion hazard analysis for Site Class D sites with a mapped S_1 value greater than or equal to 0.2; however, Section 11.4.8 of ASCE 7-16 and Supplement No. 3 provide an exception to this requirement. A site-specific ground-motion hazard analysis is not required where the value of the parameter S_{M1} determined by Equation 11.4-2 and shown in Table 3.7-1 is increased by 50 percent for developing the mapped risk-targeted maximum considered earthquake (MCER) spectral response. Similarly, the S_{D1} value presented in Table 3.7-1 should be increased by 50 percent when evaluating C_s in accordance with Chapter 12 of ASCE 7-16.

We provide the CBC seismic parameters based on the United States Geological Survey's (USGS) Seismic Design Maps in Table 3.7-1. When using this table, consideration should be given to exceptions in Section 11.4.8 of ASCE 7-16, as described above.

TABLE 3.7-1: 2022 CBC Seismic Design Parameters, Latitude: 34.1481 Longitude: -117.4561

PARAMETER	VALUE
Site Class	D
Mapped MCE_R Spectral Response Acceleration at Short Periods, S_S (g)	1.824
Mapped MCE_R Spectral Response Acceleration at 1-second Period, S_1 (g)	0.646
Site Coefficient, F_a	1
Site Coefficient, F_v	*1.7**
MCE_R Spectral Response Acceleration at Short Periods, S_{MS} (g)	1.824
MCE_R Spectral Response Acceleration at 1-second Period, S_{M1} (g)	*1.098**
Design Spectral Response Acceleration at Short Periods, S_{DS} (g)	1.216
Design Spectral Response Acceleration at 1-second Period, S_{D1} (g)	*0.732**
Mapped MCE Geometric Mean (MCE_G) Peak Ground Acceleration, PGA (g)	0.778
Site Coefficient, F_{PGA}	1.1
MCE_G Peak Ground Acceleration adjusted for Site Class effects, PGA_M (g)	0.856
Long period transition-period, T_L (sec)	8

*The parameters above should only be used for calculation of T_s, determination of Seismic Design Category, and, when taking the exceptions under Items 1 and 2 of ASCE 7-16 Section 11.4.8. (Supplement Number 3 https://ascelibrary.org/doi/epdf/10.1061/9780784414248.sup3).

We recommend that we collaborate with the structural engineer-of-record to further evaluate the effects of taking the exception on the structural design and identify the need for performing a site-specific ground-motion hazard analysis. We can prepare a proposal for a site-specific ground-motion hazard analysis, if requested.

4.0 PRELIMINARY GEOTECHNICAL RECOMMENDATIONS

The preliminary geotechnical recommendations included in this report should be utilized for project planning purposes and are intended for the areas of the site that will be developed with structural improvements. These areas include, but are not limited to, residential building pads, sidewalks, pavement areas, retaining walls, and/or soundwalls. Prior to development, we should be retained to prepare a design-level geotechnical report.

4.1 PRELIMINARY EARTHWORK CONSIDERATIONS

The relative compaction and optimum moisture content of soil and aggregate base referred to in this report are based on the most recent ASTM D1557 test method. Compacted soil is not acceptable if it is unstable. It should exhibit only minimal flexing or pumping, as observed by our representative.

As used in this report, the term “moisture condition” refers to adjusting the moisture content of the soil by either drying if too wet or adding water if too dry.

We define “structural areas” as any area sensitive to settlement of compacted soil. These areas include, but are not limited to building pads, pools, hardscape and sidewalks, landscape areas, pavement areas, and retaining walls.

4.1.1 General Site Clearing

Areas to be developed should be cleared of surface and subsurface deleterious materials, including buried utility and irrigation lines, pavements, debris, and designated trees, shrubs, and associated roots. Clean and backfill excavations extending below the planned finished site grades with suitable material compacted to the recommendations presented in Section 4.1.4. ENGEO should be retained to observe and test backfilling.

Following clearing, the site should be stripped to remove surface organic materials. Strip organics from the ground surface to a depth of at least 2 to 3 inches below the surface. Remove strippings from the site or, if considered suitable by the landscape architect and owner, use them in landscape fill. It may also be feasible to mulch organics in place, depending on the amount and type of vegetation present at the time of grading, as well as the proposed mulching method. If desired, ENGEO can evaluate site vegetation at the time of grading to assess the feasibility of mulching organics in place.

4.1.2 Near-Surface Loose Deposits Mitigation

We encountered loose sandy deposits and soft silt in the upper 2 to 4 feet of the subsurface, which is considered unsuitable for support of the proposed improvements. On a preliminary basis, we anticipate that overexcavation and recompaction up to 4 feet would be necessary to prepare the site for new improvements. Design-level field exploration should include further evaluation of lateral extent and depth of disturbed soil.

Excavated soil from loose alluvial removals may be reused as engineered fill, provided it meets the guidelines in Sections 4.1.3 and 4.1.4.

4.1.3 Acceptable Fill

On-site soil is suitable as fill material, provided it is processed to remove concentrations of organic material exceeding 3 percent by weight, debris, and particles greater than 6 inches in maximum dimension.

Imported fill material should meet the above requirements and generally have similar geotechnical characteristics to the soil encountered at the site and have similar corrosion potential as the on-site soil. Additional import fill criteria will be provided in the design-level geotechnical report based on laboratory testing of site material.

4.1.4 Fill Placement Specifications

For preliminary purposes, we suggest engineered fill should be placed according to the following fill placement specifications, depending upon location and material.

TABLE 4.1.4-1: Fill Placement Specifications

FILL AREA	TEST PROCEDURE	MOISTURE CONTENT	MINIMUM RELATIVE COMPACTION
General Fill and Soil Trench Backfill	ASTM D1557	At least 3 percentage point over optimum	At least 90 percent
Pavement Subgrade (Upper 6 inches)	ASTM D1557	At least 2 percentage points over optimum	At least 95 percent
Hardscape and Pavement Aggregate Base	ASTM D1557	At least optimum	At least 95 percent
Hot Mix Asphalt	CalTrans	-	At least 95 percent

* Relative compaction - in-place dry density of material expressed as a percentage of the maximum dry density (ASTM D1557).

4.1.5 Differential Fill Thickness

We recommend that the differential fill thickness under any building be maintained to no greater than 10 feet. This should be evaluated further in a design-level study and once the grading plans are available.

4.2 SITE DRAINAGE

The project civil engineer is responsible for designing surface drainage improvements. With regard to geotechnical engineering issues, finish grades should be sloped away from buildings and pavements to the maximum extent practical.

We anticipate development will include landscape areas. Proper subsurface drainage is required to prevent ponding on covered roofs or along walls. The roofs and drainage systems should be designed with an appropriate slope to expediently transfer moisture across and off the roofs.

5.0 PRELIMINARY FOUNDATION RECOMMENDATIONS

For land planning purposes, we recommend the use of a structural mat, such as a post-tensioned (PT) mat foundation, to support the proposed residential structures. Alternatively, structures could be supported on a conventionally reinforced structural mat or footings with concrete slab-on-grade. We provide preliminary recommendations for the PT mat foundations below. Final design parameters will be determined during the design-level study.

5.1 MAT FOUNDATIONS

We recommend that the proposed structures be supported on PT mat foundations bearing on a minimum of 18 inches of engineered fill.

For planning purposes, the structural engineer should consider at least a moderately expansive foundation soil condition for a uniform mat or PT thin mat, along with an estimated differential settlement of up to ¾-inch over a 50 foot distance. The final design, to determine the PT mat section, will be based on actual samples collected and tested in the future design-level report.

PT mats are typically underlain by a moisture reduction system as recommended in Section 5.3. In addition, the building pad subgrade is typically moisture conditioned such that the subgrade soil is at a moisture content at least 3 percentage points above optimum immediately prior to foundation construction. The subgrade should not be allowed to dry prior to concrete placement.

5.2 SHALLOW FOOTINGS WITH SLAB-ON-GRADE

The proposed buildings may be supported on continuous perimeter and isolated footings bearing in competent native soil or engineered fill, in conjunction with slab-on-grade floor. The preliminary foundation design should consider an estimated differential settlement of up to ¾-inch over a 50-foot distance and the following parameters in Table 5.2-1.

TABLE 5.2-1: Minimum Footing Dimensions

FOOTING TYPE	*MINIMUM DEPTH (INCHES)	MINIMUM WIDTH (INCHES)
Continuous	24	12
Isolated (connected by tie-beams)	24	12

*Minimum footing depths shown above are taken from lowest adjacent pad soil grade.

Foundation elements meeting the dimensions above may be designed using a maximum allowable dead-plus-live bearing pressure of 2,000 pounds per square foot (psf) for dead-plus-live loads with maximum localized bearing pressures of 2,500 psf at wall loads. This bearing capacity can be increased by one-third for the short-term effects of wind or seismic loading.

The maximum allowable bearing pressure is a net value; the weight of the footing may be neglected for design purposes. All footings located adjacent to utility trenches should have their bearing surfaces below an imaginary 1:1 (horizontal:vertical) plane projected upward from the bottom edge of the trench to the footing. Footing excavations should be kept moist prior to placement of concrete.

5.2.1 Concrete Floor Slab

For preliminary considerations, concrete floor slabs-on-grade should include a minimum of 5 to 6 inches thick, reinforced with No. 4 steel bars spaced at 18 inches on center each way, over a 6-inch-thick layer of compacted aggregate base, and placed on prepared 18 inches of low-expansive subgrade soil.

5.3 SLAB MOISTURE VAPOR REDUCTION

When buildings are constructed with slabs or mats, water vapor from beneath the slab or mat will migrate through the foundation and into the building. This water vapor can be reduced but not eliminated. Vapor transmission can negatively affect floor coverings and lead to increased moisture within a building. Where water vapor migrating through the slab or mat would be undesirable, we recommend the following measures to reduce water vapor transmission upward through the slab or mat.

1. A vapor retarder membrane should be placed directly beneath the slab or mat. The vapor retarder should be sealed at all seams and pipe penetrations. Vapor retarders should conform to Class A vapor retarder in accordance with ASTM E1745 “Standard Specification for Plastic Water Vapor Retarders used in Contact with Soil or Granular Fill under Concrete Slabs.”
2. Concrete should have a concrete water-cement ratio of no more than 0.5.
3. Inspection and testing should be performed during concrete placement to check that the proper concrete and water-cement ratio are used.
4. Moist curing procedures should be implemented.

5. The foundation subgrade soil should be protected from underseepage by providing impermeable plugs within utility trenches where they cross under the mat.

The structural engineer may consider use of a layer of granular clean sand or pea gravel (less than 5 percent passing the U.S. Standard No. 200 Sieve) placed below the vapor retarder membrane to assist in concrete curing. If a layer of granular material is placed above the vapor retarder membrane, the mat should incorporate a thickened edge. The thickened edge, if used, should at least extend to the bottom of the granular material so that it reduces the chance of water seeping between the mat and the vapor retarding membrane; the thickened edge should be at least 12 inches wide.

5.4 FOUNDATION LATERAL RESISTANCE

Lateral loads may be resisted by friction along the base and by passive pressure along the sides of foundations. The passive pressure is based on an equivalent fluid pressure in pounds per cubic foot (pcf). For preliminary purposes, the following allowable values are used for design for moderate expansive soil conditions.

- Passive Lateral Pressure: 300 pcf
- Coefficient of Friction: 0.35

The above allowable values include a factor of safety of 1.5. Increase the above values by one-third for the short-term effects of wind or seismic loading.

Passive lateral pressure should not be used for footings on or above slopes.

6.0 EXTERIOR FLATWORK

Exterior flatwork includes items such as concrete sidewalks, steps, and outdoor courtyards exposed to foot traffic only. Standard city sidewalks can be considered for the site. For patio and courtyard areas, we recommend a minimum section of 4 inches of concrete over 4 inches of aggregate base could also be considered. The subgrade under flatwork should be processed as engineered fill prior to receiving compacted aggregate base or concrete.

If constructed over expansive soil or to improve slab performance, consideration could be given to thicken flatwork edges to at least 8 inches to help control moisture variations in the subgrade and/or place wire mesh or rebar within the middle third of the slab to help control the width and offset of cracks. Construct control and construction joints in accordance with current Portland Cement Association Guidelines.

7.0 PRELIMINARY POOL CONSIDERATIONS

We understand that preliminary development plans include the construction of a community pool with surrounding hardscape.

7.1 POOL SHELL DESIGN

The pool shell should be well reinforced and designed by a structural engineer. The final pool plans and calculations should be submitted to ENGEO for review when they become available.

Preliminarily, we recommend pool shell walls be designed for an at-rest lateral pressure of 60 pounds per cubic foot and should be reinforced. The pool foundation should be designed to impose an average bearing pressure of, at most, 2,000 pounds per square foot (psf). These parameters are subject to change after the design-level exploration is performed.

The pool excavations should be observed and approved by our field representative. If the pool excavation extends into underlying native soil containing non-uniform or differential conditions, the upper 18 inches of pool excavation subgrade should be subexcavated and backfilled as engineered fill. The subgrade soil at the base of the pool excavations should be kept moist at all times prior to concrete placement. In addition, the subgrade soil located around the pool shell should be kept moist until construction of the pool deck. The pool structure should be provided with a hydrostatic pressure relief valve.

7.2 POOL DECK

For preliminary purposes and assuming a moderate expansive subgrade soil, we recommend the pool deck consist of 6 inches of concrete over 6 inches of compacted aggregate base. The subgrade material under the pool deck should be reworked to a depth of at least 12 inches and compacted in accordance with recommendations provided in the design-level geotechnical report. To improve slab performance, we suggest the pool deck slab is reinforced with rebar or welded wire mesh.

A collection subdrainage system should be considered beneath the pool deck to capture nuisance water and convey it into the area drain system. From a geotechnical standpoint, we recommend the pool deck subgrade be graded to slope away from the pool at a minimum slope of 2 percent to the collection subdrain system.

The finished concrete deck should have a minimum slope of at least 1 to 2 percent away from the pool edge in all directions. Frequent control joints should be incorporated into the pool deck according to ACI guidelines. Pool coping joints should be filled with elastomeric sealant and should be examined regularly to ensure that no openings have developed. Subgrade soil material should not be allowed to become dry prior to completion of landscaping. Minor cracking of concrete deck slabs is common and should be expected in the future.

8.0 PRELIMINARY PAVEMENT DESIGN

8.1 PAVEMENTS

8.1.1 Flexible Pavements

We developed the following pavement sections for streets using traffic indices of 4 to 7, based on an assumed R-value of 5 and Topic 633 of the 6th Edition of the Caltrans Highway Design Manual (including the asphalt factor of safety).

TABLE 8.1.1-1: Preliminary Flexible Pavement Design

TRAFFIC INDEX	ASPHALT CONCRETE (inches)	CLASS 2 AGGREGATE BASE (inches)
4	3	6½
5	3	10
6	3½	13
7	4	15½

Note: AB is Aggregate Base Class 2 Material with minimum R = 78

8.1.2 Rigid Pavements

We developed the following rigid pavement sections for streets or trash enclosure aprons using traffic indices of 6 and 7, based on an assumed R-value of 5 and Topic 607.2 of the Caltrans Highway Design Manual (including the asphalt factor of safety).

TABLE 8.1.2-1: Preliminary Rigid Pavement Design

TRAFFIC INDEX	JOINTED PLAIN CONCRETE PAVEMENT (inches)	CLASS 2 AGGREGATE BASE (inches)
6	6	9
7	6	10

Note: AB is Aggregate Base Class 2 Material with minimum R = 78

8.2 SUBGRADE AND AGGREGATE BASE COMPACTION

Compact finish subgrade and aggregate base in accordance with Section 4.1.4. Aggregate base should meet the requirements for ¾-inch maximum Class 2 Aggregate Base in accordance with Section 26-1.02B of the latest Caltrans Standard Specifications.

8.3 CUTOFF CURBS

Saturated pavement subgrade or aggregate base can cause premature failure or increased maintenance of asphalt concrete pavements. This condition often occurs where landscape areas directly abut and drain toward pavements. If desired to install pavement cutoff barriers, they should be considered where pavement areas lie downslope of any landscape areas that are to be sprinklered or irrigated and should extend to a depth of at least 4 inches below the baserock layer. Cutoff barriers may consist of deepened concrete curbs or deep-root moisture barriers.

If reduced pavement life and greater than normal pavement maintenance are acceptable to the owner, then the cutoff barrier may be eliminated.

9.0 DESIGN-LEVEL GEOTECHNICAL REPORT

This preliminary report presents preliminary geotechnical findings, conclusions, and recommendations intended for preliminary planning purposes only. A design-level geotechnical exploration and assessment should be performed when final development plans are available. We recommend the design-level exploration and reporting include the following scope items.

- Additional field exploration consisting of geotechnical borings
- Laboratory testing

- Design-level assessment of geologic and geotechnical hazards
- Design-level recommendations for building and retaining wall foundation design
- Design-level grading, utility, and paving recommendations

10.0 LIMITATIONS

This preliminary report presents geotechnical recommendations for design of the improvements discussed in Section 1.3 for the Corporate Center Chino project. If changes occur in the nature or design of the project, we should be allowed to review this report and provide additional recommendations, if any. It is the responsibility of the owner to transmit the information and recommendations of this report to the appropriate organizations or people involved in design of the project, including but not limited to developers, owners, buyers, architects, engineers, and designers. The conclusions and recommendations contained in this preliminary report are solely professional opinions and are valid for a period of no more than 2 years from the date of report issuance.

We strive to perform our professional services in accordance with generally accepted principles and practices currently employed in the area; there is no warranty, express or implied. There are risks of earth movement and property damages inherent in building on or with earth materials. We are unable to eliminate all risks; therefore, we are unable to guarantee or warrant the results of our services.

This preliminary report is based upon field and other conditions discovered at the time of report preparation. We developed this report with limited subsurface exploration data. We assumed that our subsurface exploration data are representative of the actual subsurface conditions across the site. Considering possible underground variability of soil and groundwater, additional costs may be required to complete the project. We recommend that the owner establish a contingency fund to cover such costs. If unexpected conditions are encountered, ENGEO must be notified immediately to review these conditions and provide additional and/or modified recommendations, as necessary.

Our services did not include excavation sloping or shoring, soil volume change factors, flood potential, or a geohazard exploration. In addition, our geotechnical exploration did not include work to determine the existence of possible hazardous materials. If any hazardous materials are encountered during construction, the proper regulatory officials must be notified immediately.

This document must not be subject to unauthorized reuse, that is, reusing without written authorization of ENGEO. Such authorization is essential because it requires ENGEO to evaluate the document’s applicability given new circumstances, not the least of which is passage of time.

Actual field or other conditions will necessitate clarifications, adjustments, modifications, or other changes to ENGEO’s documents. Therefore, ENGEO must be engaged to prepare the necessary clarifications, adjustments, modifications, or other changes before construction activities commence or further activity proceeds. If ENGEO’s scope of services does not include on-site construction observation, or if other persons or entities are retained to provide such services, ENGEO cannot be held responsible for any or all claims arising from or resulting from the performance of such services by other persons or entities, and from any or all claims arising from or resulting from clarifications, adjustments, modifications, discrepancies, or other changes necessary to reflect changed field or other conditions.

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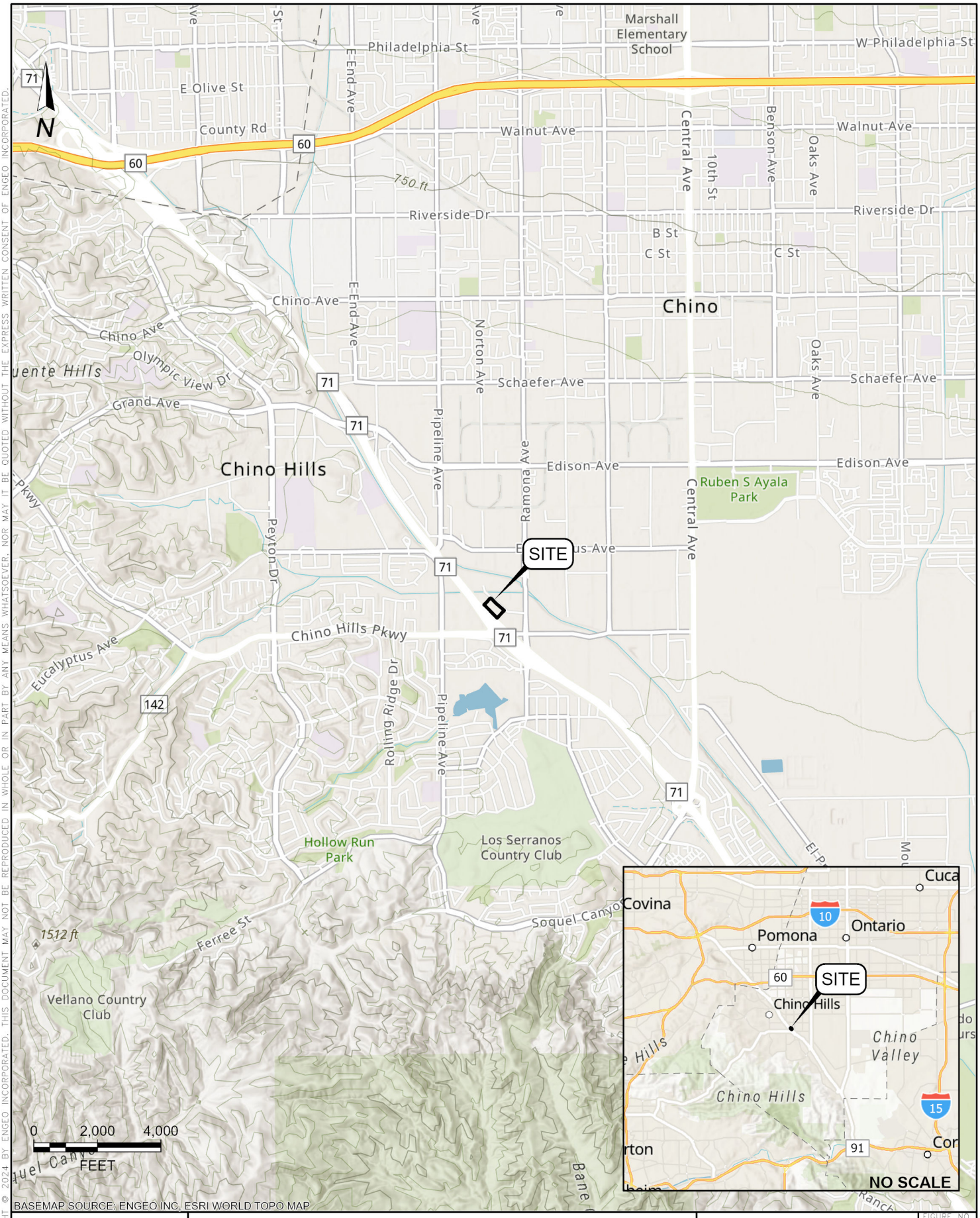
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FIGURES

FIGURE 1: Vicinity Map
FIGURE 2: Site Plan
FIGURE 3: Regional Geologic Map
FIGURE 4: Regional Faulting and Seismicity Map



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VICINITY MAP

CORPORATE CENTER CHINO

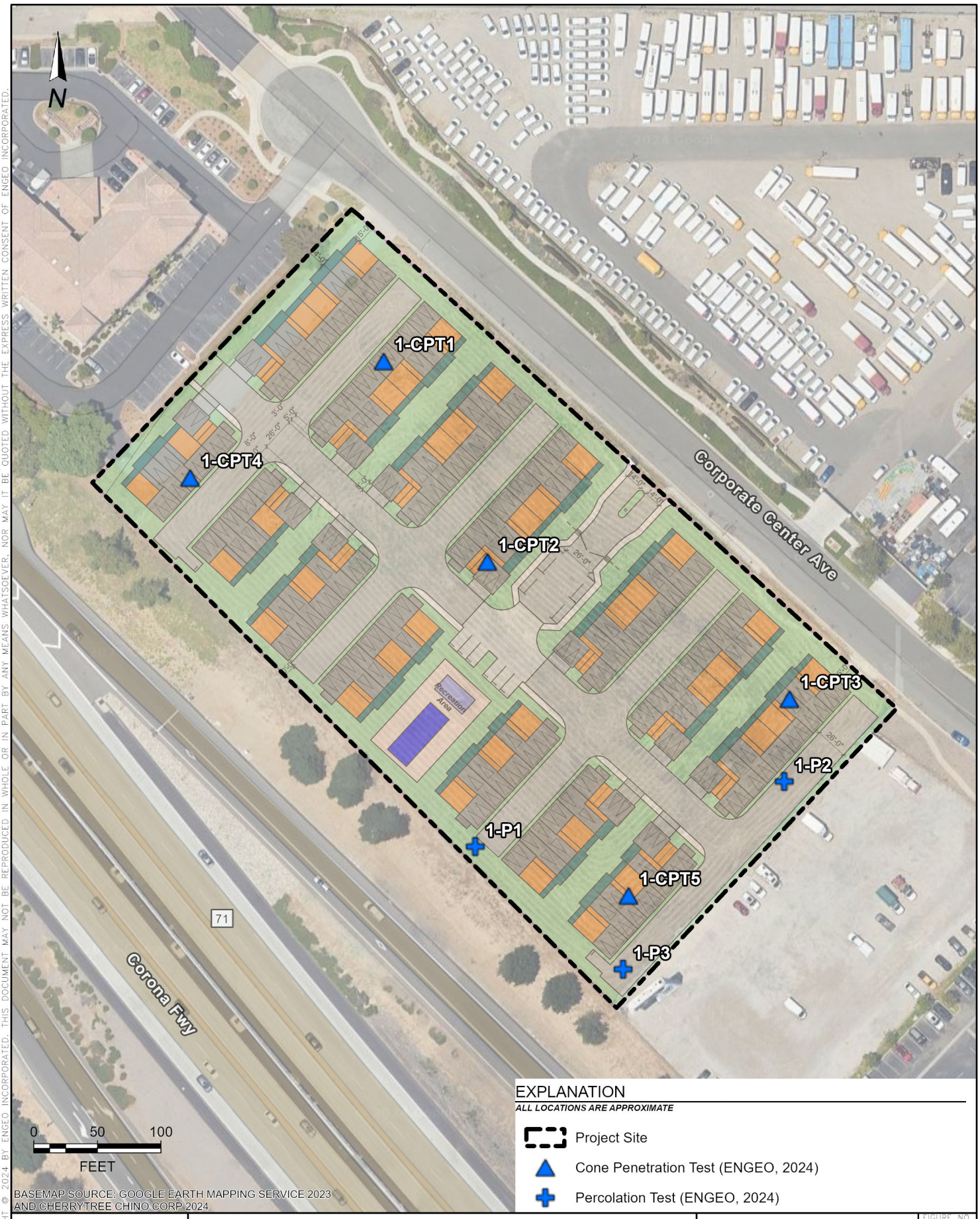
CHINO, CALIFORNIA

PROJECT NO. :	25751.000.001
SCALE:	AS SHOWN
DRAWN BY: NWC	CHECKED BY: SB

FIGURE NO. 1

ORIGINAL FIGURE PRINTED IN COLOR

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LAYOUT: 01. VICINITY 8.5 X 11 PORTRAIT USER: NCLOUGH



BASEMAP SOURCE: GOOGLE EARTH MAPPING SERVICE 2023 AND CHERRYTREE CHINO CORP 2024

EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- Project Site
- Cone Penetration Test (ENGEO, 2024)
- Percolation Test (ENGEO, 2024)

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SITE PLAN

CORPORATE CENTER CHINO

CHINO, CALIFORNIA

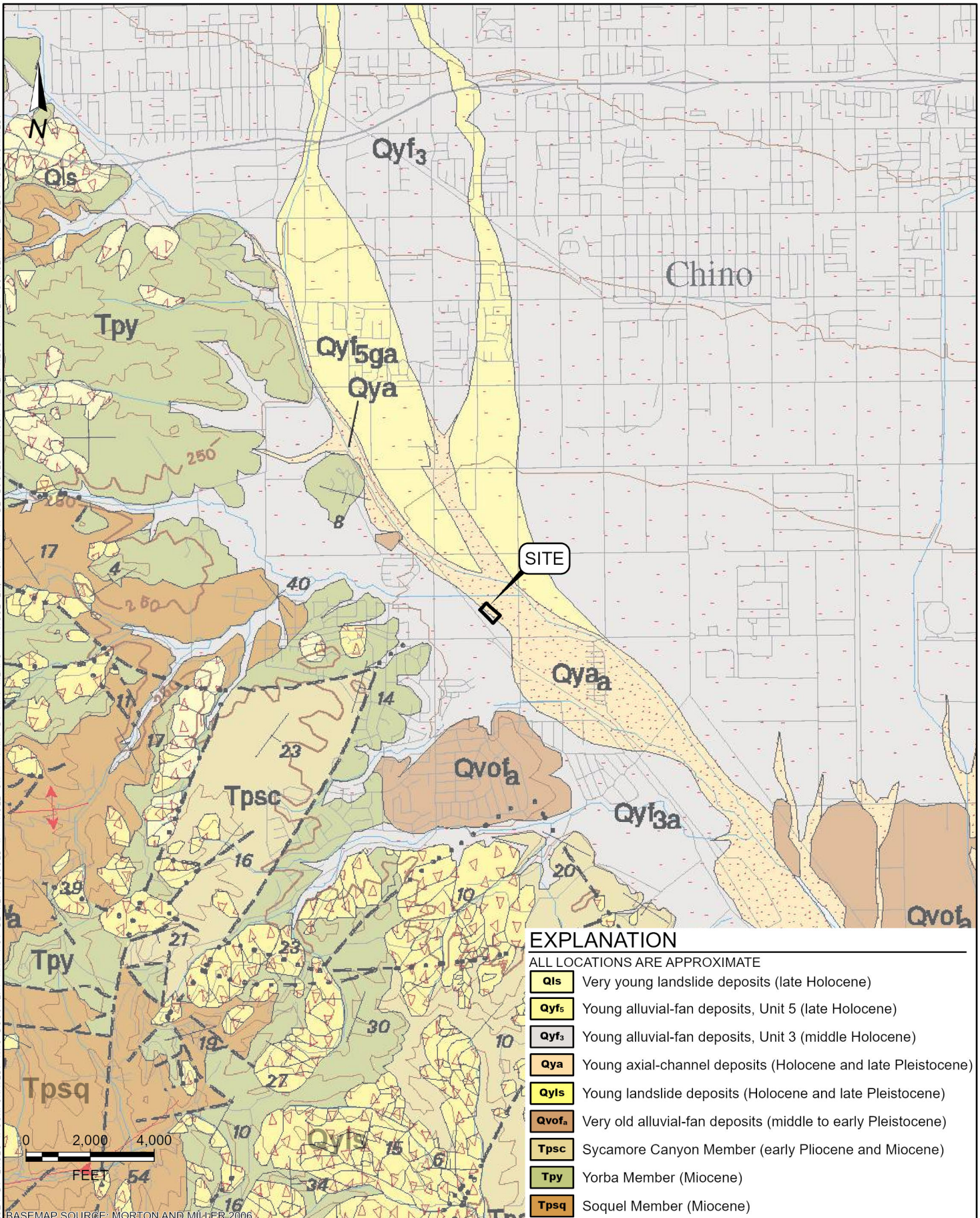
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SCALE:	AS SHOWN
DRAWN BY: NWC	CHECKED BY: SB

FIGURE NO. 2

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LAYOUT: 02. SITE PLAN 8.5 X 11 PORTRAIT USER: NCLOUGH

ORIGINAL FIGURE PRINTED IN COLOR



EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

Qls	Very young landslide deposits (late Holocene)
Qyf5	Young alluvial-fan deposits, Unit 5 (late Holocene)
Qyf3	Young alluvial-fan deposits, Unit 3 (middle Holocene)
Qya	Young axial-channel deposits (Holocene and late Pleistocene)
Qyls	Young landslide deposits (Holocene and late Pleistocene)
Qvofa	Very old alluvial-fan deposits (middle to early Pleistocene)
Tpsc	Sycamore Canyon Member (early Pliocene and Miocene)
Tpy	Yorba Member (Miocene)
Tpsq	Soquel Member (Miocene)

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REGIONAL GEOLOGIC MAP

CORPORATE CENTER CHINO

CHINO, CALIFORNIA

PROJECT NO. : 25751.000.001

SCALE: AS SHOWN

DRAWN BY: NWC | CHECKED BY: SB

FIGURE NO. 3

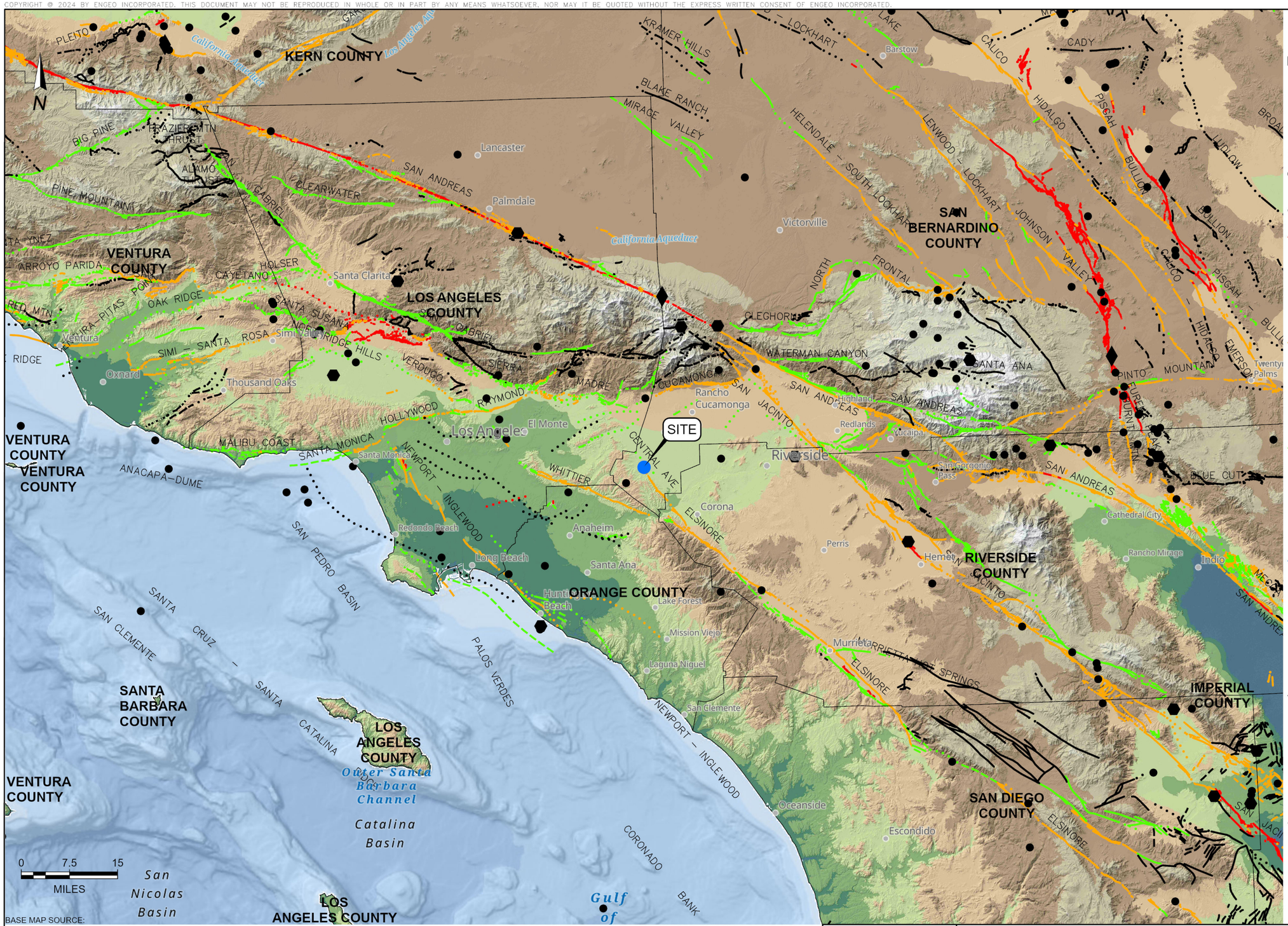
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PATH: G:\DRAFTING\PROJECTS_24000 TO 25999\25751\25751000001\GEOTECHNICAL\PGEX\25751000001_CORPORATECENTERCHINO – GEX.APRX

LAYOUT: 03. GEOLOGIC 8.5 X 11 PORTRAIT USER: NCLOUGH

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EXPLANATION

- Project Site

HISTORIC EARTHQUAKE EPICENTERS

- Magnitude 5-6
- Magnitude 6-7
- Magnitude 7+
- Historic Blind Thrust Fault Zone

QUATERNARY FAULTS 2020

Based on time of most recent surface deformation

- Historical (<150 Years), Well Constrained Location
- Historical (<150 Years), Moderately Constrained Location
- Historical (<150 Years), Inferred Location
- Latest Quaternary (<15,000 Years), Well Constrained Location
- Latest Quaternary (<15,000 Years), Moderately Constrained Location
- Latest Quaternary (<15,000 Years), Inferred Location
- Late Quaternary (<130,000 Years), Moderately Constrained Location
- Late Quaternary (<130,000 Years), Inferred Location
- Middle And Late Quaternary (<750,000 Years), Well Constrained Location
- Middle And Late Quaternary (<750,000 Years), Moderately Constrained Location
- Middle And Late Quaternary (<750,000 Years), Inferred Location
- Undifferentiated Quaternary(<1.6 Million Years), Well Constrained Location
- Undifferentiated Quaternary(<1.6 Million Years), Moderately Constrained Location
- Undifferentiated Quaternary(<1.6 Million Years), Inferred Location
- Class B (Various Age), Well Constrained Location
- Class B (Various Age), Moderately Constrained Location
- Class B (Various Age), Inferred Location

BASE MAP SOURCE:
CSUMB, ESRI, GARMIN, NATURALVUE, ESRI, GEBCO, GARMIN, NATURALVUE, COUNTY OF LOS ANGELES, CALIFORNIA STATE PARKS, ESRI, TOMTOM, GARMIN, SAFEGRAPH, GEOTECHNOLOGIES, INC, METI/NASA, USGS, BUREAU OF LAND MANAGEMENT, EPA, NPS, USDA, USFWS, COUNTY OF LOS ANGELES, CALIFORNIA STATE PARKS, ESRI, TOMTOM, GARMIN, SAFEGRAPH, FAO, METI/NASA, USGS, BUREAU OF LAND MANAGEMENT, EPA, NPS, USFWS
COLOR HILLSHADE IMAGE BASED ON THE NATIONAL ELEVATION DATA SET (NED) AT 30 METER RESOLUTION
U.S.G.S. QUATERNARY FAULT DATABASE, 2020
C.G.S. HISTORIC EARTHQUAKE DATABASE

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REGIONAL FAULTING AND SEISMICITY MAP

CORPORATE CENTER CHINO
CHINO, CALIFORNIA

PROJECT NO. :	25751.000.001
SCALE:	AS SHOWN
DRAWN BY: NWC	CHECKED BY: SB

FIGURE NO. 4

PATH: G:\DRAFTING\MANAGEMENT\GIS\GEX\GEX UPDATE\GIS FIGURE TEMPLATE.APRX
LAYOUT: 04. FAULT&SEISMICITY 11 X 17 LANDSCAPE USER: NCLOUGH

ORIGINAL FIGURE PRINTED IN COLOR



APPENDIX A

BORING LOG KEY
BORING LOGS

ENGEO
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Corporate Center Chino

Soil Boring: 1-P1

Project Address:	Corporate Center Avenue	Date Drilled:	07/11/2024	Logged By:	Jennifer Knipper
Project No:	25751.000.001	Hole Depth:	20'	Reviewed By:	Seema Barua
Lat Lng:	33.984420, -117.709742	Boring Diameter:	8"	Drilling Co.:	2R Drilling
Surface Elevation:	630.5'	Method:	Hollow-Stem Auger	Hammer Type:	Auto 140-lb
Elevation Datum:	WGS84				

Depth (ft)	Elevation (ft)	Sample Graphic	Visual Classification and Remarks	Graphic Log	Water Levels	Uncorrected N-Value	Lab: Atterberg Limits (LL-PL-PI)	Lab: Fines (%)	Lab: Moisture Content (%)	Lab: Dry Density (pcf)	Lab: Shear Strength (psf)	Lab: Compressive Strength (psf)	Lab: Pocket Penetrometer (tsf)	Lab: Torvane (PSF)
0	630		**SILT** (**ML**), yellowish brown, dry to moist, fine-grained sand											
5	625		**SANDY SILT** (**ML**), yellowish brown, stiff, moist			12								
10	620		**SILT WITH SAND** (**ML**), yellowish brown, stiff, moist			14								
15	615		Medium stiff			7								
20	610		**SILTY SAND** (**SM**), light yellowish brown, medium dense, moist, fine- to coarse-grained sand			14								
			End of Boring at 20 feet below ground surface. Groundwater not encountered at the time of drilling.											

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Corporate Center Chino

Soil Boring: 1-P2

Project Address:	Corporate Center Avenue	Date Drilled:	07/11/2024	Logged By:	Jennifer Knipper
Project No:	25751.000.001	Hole Depth:	20'	Reviewed By:	Seema Barua
Lat Lng:	33.984532, -117.708933	Boring Diameter:	8"	Drilling Co.:	2R Drilling
Surface Elevation:	631.3'	Method:	Hollow-Stem Auger	Hammer Type:	Auto 140-lb
Elevation Datum:	WGS84				

Depth (ft)	Elevation (ft)	Sample Graphic	Visual Classification and Remarks	Graphic Log	Water Levels	Uncorrected N-Value	Lab: Atterberg Limits (LL-PL-PI)	Lab: Fines (%)	Lab: Moisture Content (%)	Lab: Dry Density (pcf)	Lab: Shear Strength (psf)	Lab: Compressive Strength (psf)	Lab: Pocket Penetrometer (tsf)	Lab: Torvane (PSF)
0	630		**SILT** (**ML**), yellowish brown, dry to moist, fine grained sand											
			Stiff											
5	625					14								
			SILTY SAND (**SM**), yellowish brown, medium dense, moist, fine-grained sand											
10	620					10								
			SILT WITH SAND (**ML**), yellowish brown, stiff, moist, fine-grained sand											
15	615					10								
			SILTY SAND (**SM**), yellowish brown, medium dense, moist, fine-grained sand											
20						12								

End of Boring at 20 feet below ground surface. Groundwater not encountered at the time of drilling.

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Corporate Center Chino

Soil Boring: 1-P3

Project Address:	Corporate Center Avenue	Date Drilled:	07/11/2024	Logged By:	Jennifer Knipper
Project No:	25751.000.001	Hole Depth:	20'	Reviewed By:	Seema Barua
Lat Lng:	33.984116, -117.709359	Boring Diameter:	8"	Drilling Co.:	2R Drilling
Surface Elevation:	630.8'	Method:	Hollow-Stem Auger	Hammer Type:	Auto 140-lb
Elevation Datum:	WGS84				

Depth (ft)	Elevation (ft)	Sample Graphic	Visual Classification and Remarks	Graphic Log	Water Levels	Uncorrected N-Value	Lab: Atterberg Limits (LL-PL-PI)	Lab: Fines (%)	Lab: Moisture Content (%)	Lab: Dry Density (pcf)	Lab: Shear Strength (psf)	Lab: Compressive Strength (psf)	Lab: Pocket Penetrometer (tsf)	Lab: Torvane (PSF)
0	630		**SILT** (**ML**), yellowish brown, dry to moist											
5	625		**SILTY SAND** (**SM**), yellowish brown, loose, moist, fine-grained sand			9								
			SANDY SILT (**ML**), yellowish brown, medium stiff, moist, fine-grained sand											
10	620					7								
			SILTY SAND (**SM**), yellowish brown, medium dense, moist, fine- to coarse-grained sand											
15	615					16								
			POORLY GRADED SAND (**SP**), light yellowish brown, medium dense, moist, fine- to coarse-grained sand											
20						12								

End of Boring at 20 feet below ground surface. Groundwater not encountered at the time of drilling.



APPENDIX B

CPT DATA (KTE, 2024)

SUMMARY

OF

CONE PENETRATION TEST DATA

Project:

Chino Corporate Center
Corporate Center Avenue & Ramona Avenue
Chino, CA
July 12, 2024

Prepared for:

Ms. Tania Zakaria
ENGEO Incorporated
27742 Hancock Parkway
Valencia, CA 91355
Office (661) 257-4004 / Fax (888) 279-2698

Prepared by:

KEHOE TESTING & ENGINEERING
5415 Industrial Drive
Huntington Beach, CA 92649-1518
Office (714) 901-7270 / Fax (714) 901-7289
www.kehoetesting.com

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1. **INTRODUCTION**
2. **SUMMARY OF FIELD WORK**
3. **FIELD EQUIPMENT & PROCEDURES**
4. **CONE PENETRATION TEST DATA & INTERPRETATION**

APPENDIX

- CPT Plots
- CPT Classification/Soil Behavior Chart
- Summary of Shear Wave Velocities
- CPT Data Files (sent via email)

SUMMARY
OF
CONE PENETRATION TEST DATA

1. INTRODUCTION

This report presents the results of a Cone Penetration Test (CPT) program carried out for the Chino Corporate Center project located at Coporate Center Avenue & Ramona Avenue in Chino, California. The work was performed by Kehoe Testing & Engineering (KTE) on July 12, 2024. The scope of work was performed as directed by ENGEO Incorporated personnel.

2. SUMMARY OF FIELD WORK

The fieldwork consisted of performing CPT soundings at six locations to determine the soil lithology. A summary is provided in **TABLE 2.1**.

LOCATION	DEPTH OF CPT (ft)	COMMENTS/NOTES:
CPT-1	50	
CPT-2	56	Refusal
CPT-2A	91	Refusal
CPT-3	50	
CPT-4	50	
CPT-5	50	

TABLE 2.1 - Summary of CPT Soundings

3. FIELD EQUIPMENT & PROCEDURES

The CPT soundings were carried out by **KTE** using an integrated electronic cone system manufactured by Vertek. The CPT soundings were performed in accordance with ASTM standards (D5778). The cone penetrometers were pushed using a 30-ton CPT rig. The cone used during the program was a 15 cm^2 cone with a cone net area ratio of 0.83. The following parameters were recorded at approximately 2.5 cm depth intervals:

- Cone Resistance (qc)
- Sleeve Friction (fs)
- Dynamic Pore Pressure (u)
- Inclination
- Penetration Speed

At locations CPT-2 & CPT-2A, shear wave measurements were obtained at various depths. The shear wave is generated using an air-actuated hammer, which is located inside the front jack of the CPT rig. The cone has a triaxial geophone, which recorded the shear wave signal generated by the air hammer.

The above parameters were recorded and viewed in real time using a laptop computer. Data is stored at the KTE office for up to 2 years for future analysis and reference. A complete set of baseline readings was taken prior to each sounding to determine temperature shifts and any zero load offsets. Monitoring base line readings ensures that the cone electronics are operating properly.

4. CONE PENETRATION TEST DATA & INTERPRETATION

The Cone Penetration Test data is presented in graphical form in the attached Appendix. These plots were generated using the CPeT-IT program. Penetration depths are referenced to ground surface. The soil behavior type on the CPT plots is derived from the attached CPT SBT plot (Robertson, "Interpretation of Cone Penetration Test…", 2009) and presents major soil lithologic changes. The stratigraphic interpretation is based on relationships between cone resistance (qc), sleeve friction (fs), and penetration pore pressure (u). The friction ratio (Rf), which is sleeve friction divided by cone resistance, is a calculated parameter that is used along with cone resistance to infer soil behavior type. Generally, cohesive soils (clays) have high friction ratios, low cone resistance and generate excess pore water pressures. Cohesionless soils (sands) have lower friction ratios, high cone bearing and generate little (or negative) excess pore water pressures.

The CPT data files have also been provided. These files can be imported in CPeT-IT (software by GeoLogismiki) and other programs to calculate various geotechnical parameters.

It should be noted that it is not always possible to clearly identify a soil type based on qc, fs and u. In these situations, experience, judgement and an assessment of the pore pressure data should be used to infer the soil behavior type.

If you have any questions regarding this information, please do not hesitate to call our office at (714) 901-7270.

Sincerely,

KEHOE TESTING & ENGINEERING



Steven P. Kehoe
President

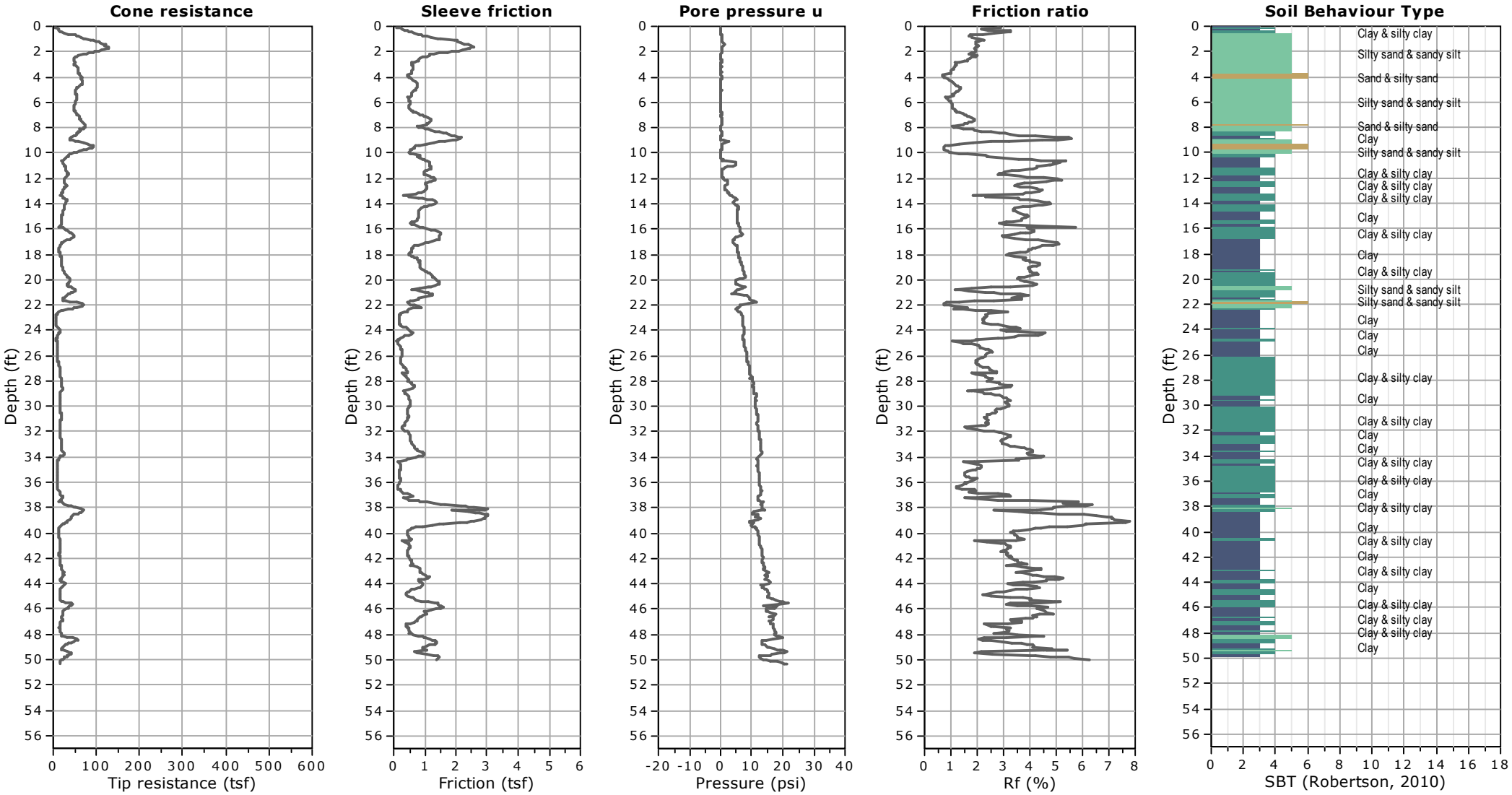
07/17/24-eb-6655

APPENDIX

Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: **ENGEO / Chino Corporate Center**
Location: **Corporate Center Ave & Ramona Ave, Chino, CA**

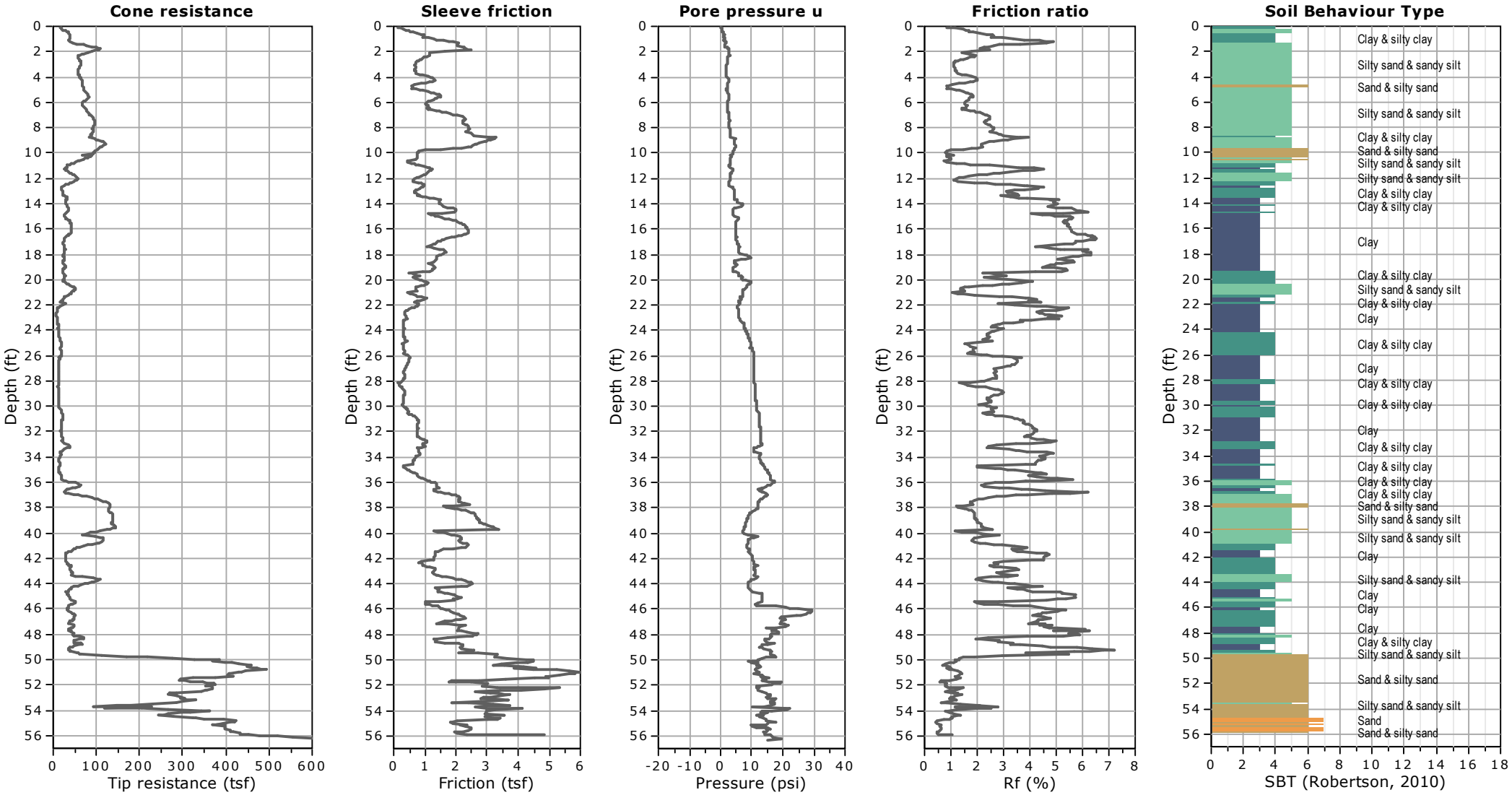
CPT-1
Total depth: 50.37 ft, Date: 7/12/2024



Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: **ENGEO / Chino Corporate Center**
Location: **Corporate Center Ave & Ramona Ave, Chino, CA**

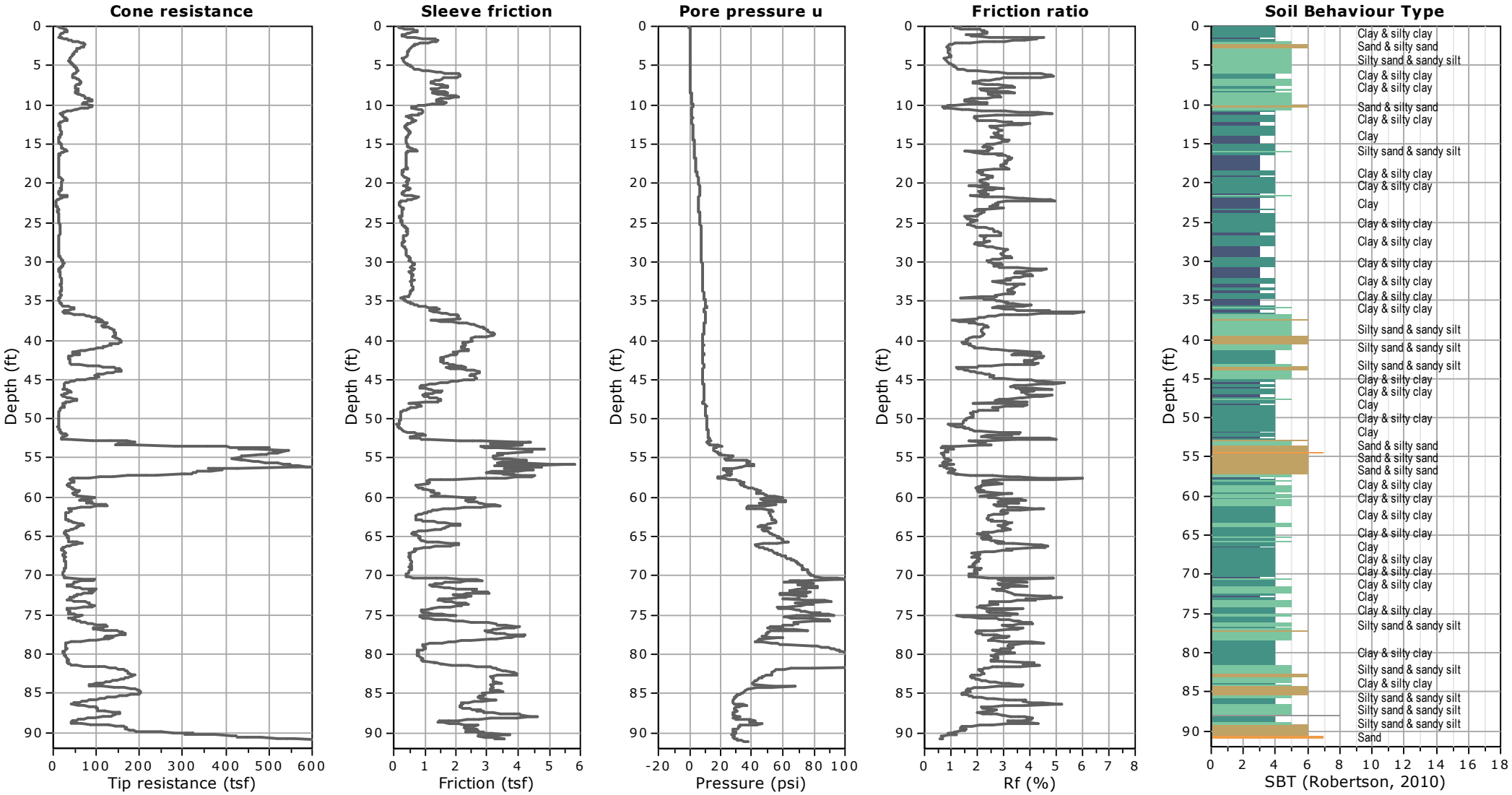
CPT-2
Total depth: 56.32 ft, Date: 7/12/2024



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steve@kehoetesting.com
www.kehoetesting.com

Project: **ENGEO / Chino Corporate Center**
Location: **Corporate Center Ave & Ramona Ave, Chino, CA**

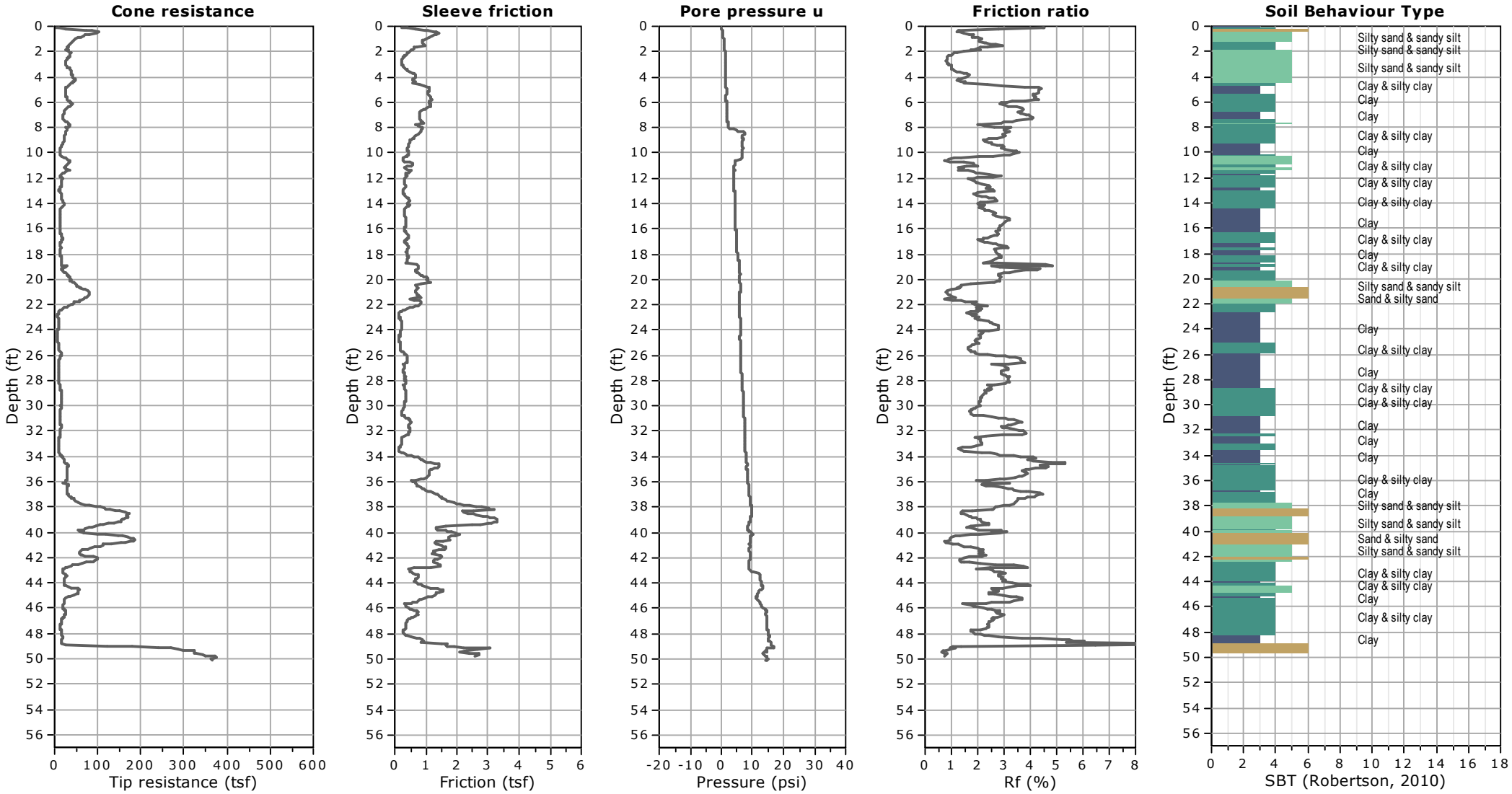
CPT-2A
Total depth: 91.18 ft, Date: 7/12/2024



Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: **ENGEO / Chino Corporate Center**
Location: **Corporate Center Ave & Ramona Ave, Chino, CA**

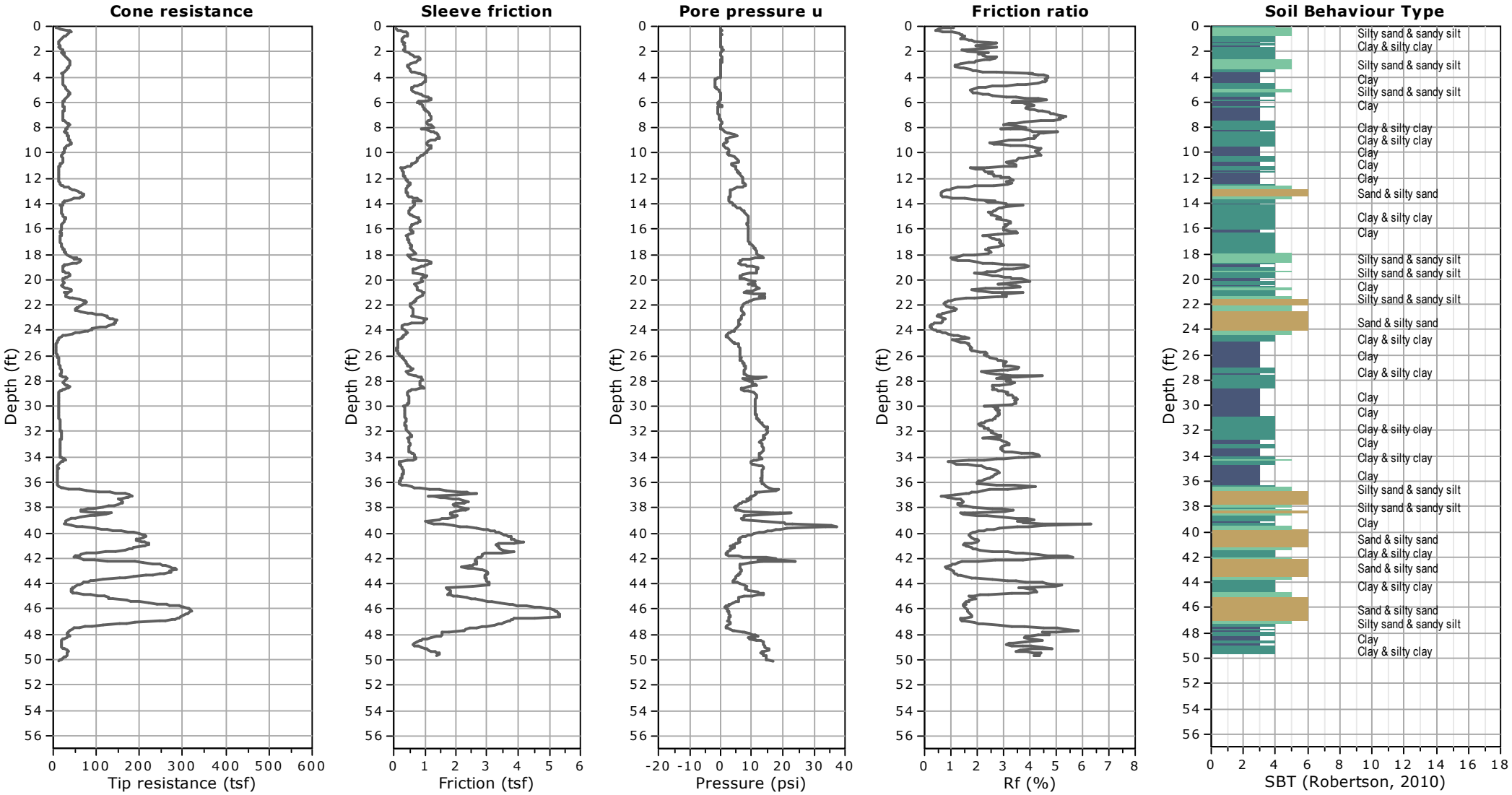
CPT-3
Total depth: 50.15 ft, Date: 7/12/2024



Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: **ENGEO / Chino Corporate Center**
Location: **Corporate Center Ave & Ramona Ave, Chino, CA**

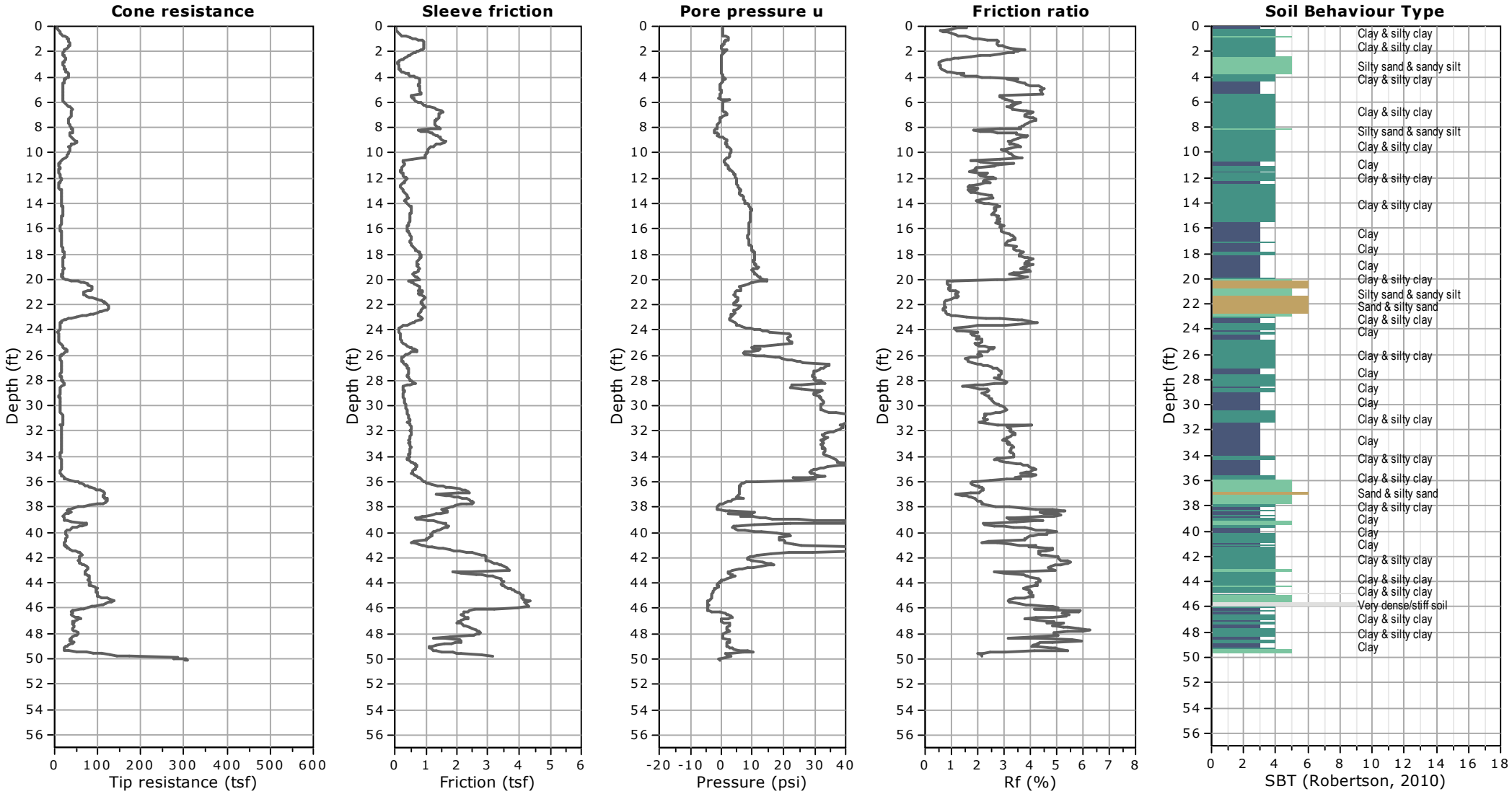
CPT-4
Total depth: 50.10 ft, Date: 7/12/2024



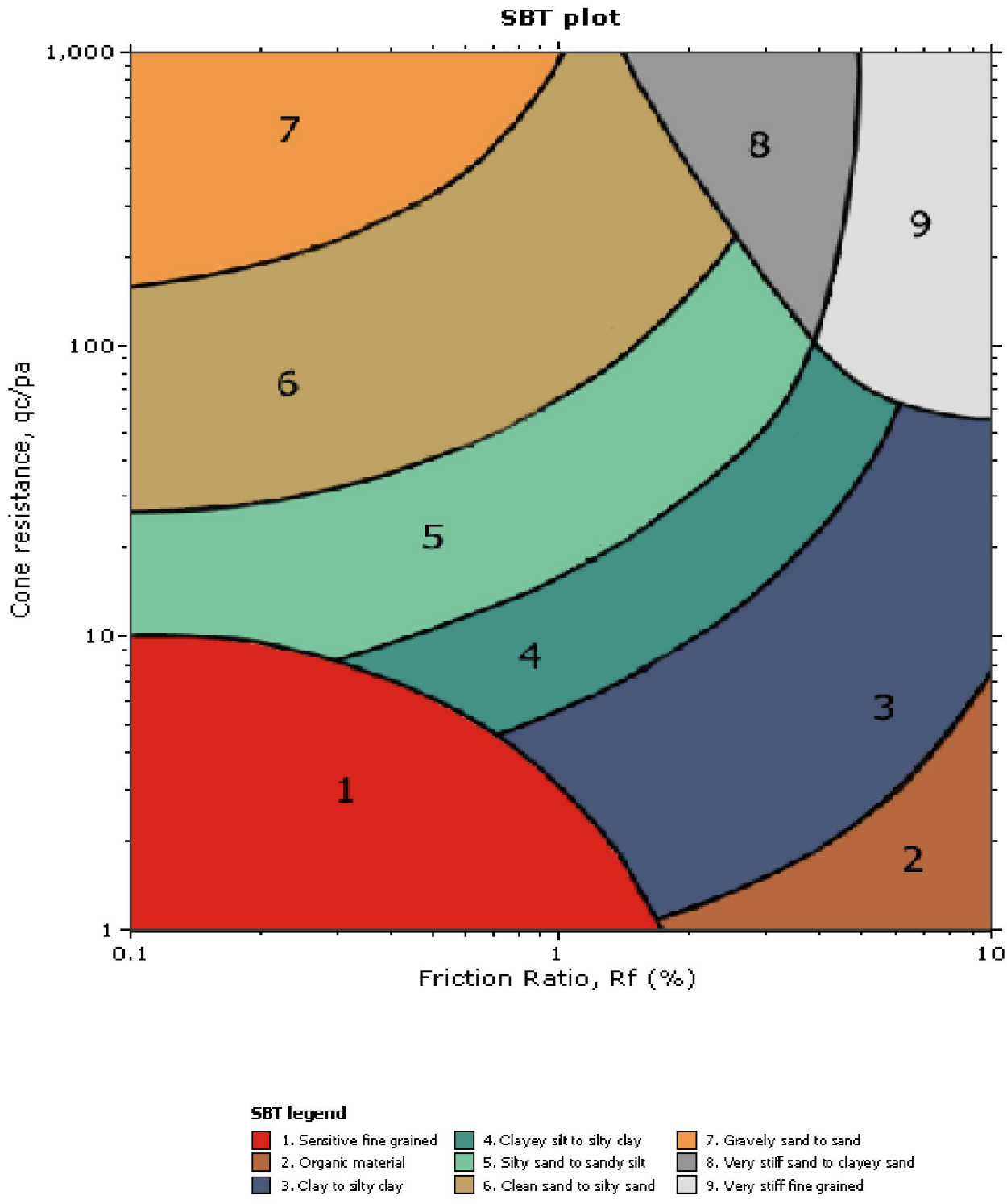
Kehoe Testing and Engineering
714-901-7270
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Project: **ENGEO / Chino Corporate Center**
Location: **Corporate Center Ave & Ramona Ave, Chino, CA**

CPT-5
Total depth: 50.15 ft, Date: 7/12/2024



Kehoe Testing and Engineering
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ENGEO
Chino Corporate Center
Chino, CA

CPT Shear Wave Measurements

Location	Tip Depth (ft)	Geophone Depth (ft)	Travel Distance (ft)	S-Wave Arrival (msec)	S-Wave Velocity from Surface (ft/sec)	Interval S-Wave Velocity (ft/sec)
CPT-2	4.99	3.99	4.46	5.76	775	
	10.07	9.07	9.29	12.52	742	714
	15.06	14.06	14.20	19.50	728	704
	20.05	19.05	19.15	27.28	702	637
	25.00	24.00	24.08	36.16	666	555
	30.09	29.09	29.16	42.40	688	813
	35.04	34.04	34.10	49.36	691	710
	40.06	39.06	39.11	56.30	695	722
	45.05	44.05	44.10	61.76	714	913
	50.03	49.03	49.07	67.24	730	908
	55.05	54.05	54.09	72.26	749	999
	56.23	55.23	55.27	73.12	756	1371
CPT-2A	60.10	59.10	59.13	76.54	773	
	65.06	64.06	64.09	81.36	788	1029
	70.11	69.11	69.14	86.72	797	942
	75.03	74.03	74.06	90.56	818	1281
	80.09	79.09	79.12	94.84	834	1182
	85.07	84.07	84.09	99.02	849	1191
	90.09	89.09	89.11	103.84	858	1041
	91.08	90.08	90.10	104.68	861	1178

Shear Wave Source Offset - 2 ft

S-Wave Velocity from Surface = Travel Distance/S-Wave Arrival
Interval S-Wave Velocity = (Travel Dist2-Travel Dist1)/(Time2-Time1)



ENGEO

Expect Excellence

FACTOR OF SAFETY CALCULATION

Worksheet H: Factor of Safety and Design Infiltration Rate and Worksheet

Factor Category		Factor Description	Assigned Weight (w)	Factor Value (v)	Product (p) p = w x v
A	Suitability Assessment	Soil assessment methods	0.25	1	0.25
		Predominant soil texture	0.25	1	0.25
		Site soil variability	0.25	1	0.25
		Depth to groundwater / impervious layer	0.25	1	0.25
		Suitability Assessment Safety Factor, $S_A = \Sigma p$			1.00
B	Design	Tributary area size	0.25	2	0.50
		Level of pretreatment/ expected sediment loads	0.25	3	0.75
		Redundancy	0.25	3	0.75
		Compaction during construction	0.25	2	0.50
		Design Safety Factor, $S_B = \Sigma p$			2.50
Combined Safety Factor, $S_{TOT} = S_A \times S_B$		1.00 X 2.50			2.50
Measured Infiltration Rate, inch/hr, K_M (corrected for test-specific bias)		(2+1+3)/3			2 IN/HR
Design Infiltration Rate, in/hr, $K_{DESIGN} = S_{TOT} \times K_M$					0.8 IN/HR

Supporting Data

Briefly describe infiltration test and provide reference to test forms:

TEST LOCATION 1-P1: Kd=2/2.50 = 0.80 IN/HR
TEST LOCATION 1-P2: Kd=1/2.50 = 0.40 IN/HR
TEST LOCATION 1-P3: Kd=3/2.50 = 1.20 IN/HR

THE INFILTRATION CHAMBERS PROPOSED TO BE LOCATED VERY CLOSE PROXIMITY OF THESE THREE TEST LOCATIONS. THEREFORE, AVERAGE INFILTRATION RATE OF THESE THREE TEST RESULT CAN BE USED TO DETERMINE DESIGN INFILTRATION RATE.

DESIGN INFILTRATION RATE = (0.80+0.40+1.20)/3 IN/HR
= 0.8 IN/HR

Note: The minimum combined adjustment factor shall not be less than 2.0 and the maximum combined adjustment factor shall not exceed 9.0.

2-YEAR PRE AND POST DEVELOPMENT RUNOFF CALCULATION (RATIONAL METHOD)

San Bernardino County Rational Hydrology Program

(Hydrology Manual Date - August 1986)

CIVILCADD/CIVILDESIGN Engineering Software, (c) 1989-2014 Version 9.0
Rational Hydrology Study Date: 01/24/25

PREDEVELOPMENT RATIONAL METHOD
2-YEAR STORM EVENT
4200001EX02
FUSCOE ENGINEERING

Program License Serial Number 6103

********* Hydrology Study Control Information **********

Rational hydrology study storm event year is 2.0
Computed rainfall intensity:
Storm year = 2.00 1 hour rainfall = 0.586 (In.)
Slope used for rainfall intensity curve b = 0.6000
Soil antecedent moisture condition (AMC) = 1

++

Process from Point/Station 1.010 to Point/Station 1.020
**** INITIAL AREA EVALUATION ****

Soil classification AP and SCS values input by user
USER INPUT of soil data for subarea
SCS curve number for soil(AMC 2) = 79.00
Adjusted SCS curve number for AMC 1 = 61.80
Pervious ratio(Ap) = 0.9600 Max loss rate(Fm)= 0.628(In/Hr)
Initial subarea data:
Initial area flow distance = 579.000(Ft.)
Top (of initial area) elevation = 639.000(Ft.)
Bottom (of initial area) elevation = 632.000(Ft.)
Difference in elevation = 7.000(Ft.)
Slope = 0.01209 s(%)= 1.21
TC = k(0.511)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 15.747 min.
Rainfall intensity = 1.308(In/Hr) for a 2.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.468
Subarea runoff = 2.519(CFS)
Total initial stream area = 4.120(Ac.)
Pervious area fraction = 0.960
Initial area Fm value = 0.628(In/Hr)
End of computations, Total Study Area = 4.12 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.
Note: These figures do not consider reduced effective area
effects caused by confluences in the rational equation.

Area averaged pervious area fraction(Ap) = 0.960
Area averaged SCS curve number = 79.0

San Bernardino County Rational Hydrology Program

(Hydrology Manual Date - August 1986)

CIVILCADD/CIVILDESIGN Engineering Software, (c) 1989-2014 Version 9.0
Rational Hydrology Study Date: 01/28/25

POST DEVELOPMENT RATIONAL METHOD
2-YEAR EVENT
4200001PROP02
FUSCOE ENGINEERING

Program License Serial Number 6103

********* Hydrology Study Control Information **********

Rational hydrology study storm event year is 2.0
Computed rainfall intensity:
Storm year = 2.00 1 hour rainfall = 0.586 (In.)
Slope used for rainfall intensity curve b = 0.6000
Soil antecedent moisture condition (AMC) = 1

++

Process from Point/Station 1.010 to Point/Station 1.020
**** INITIAL AREA EVALUATION ****

COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2) = 56.00
Adjusted SCS curve number for AMC 1 = 36.00
Pervious ratio(Ap) = 0.1000 Max loss rate(Fm)= 0.095(In/Hr)
Initial subarea data:
Initial area flow distance = 114.000(Ft.)
Top (of initial area) elevation = 638.000(Ft.)
Bottom (of initial area) elevation = 636.500(Ft.)
Difference in elevation = 1.500(Ft.)
Slope = 0.01316 s(%)= 1.32
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 4.806 min.
Rainfall intensity = 2.665(In/Hr) for a 2.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.868
Subarea runoff = 0.879(CFS)
Total initial stream area = 0.380(Ac.)
Pervious area fraction = 0.100
Initial area Fm value = 0.095(In/Hr)

++

Process from Point/Station 1.020 to Point/Station 1.050
**** PIPEFLOW TRAVEL TIME (User specified size) ****

Upstream point/station elevation = 626.800(Ft.)

```
Downstream point/station elevation =   626.500(Ft.)
Pipe length  =    24.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     0.879(CFS)
Given pipe size =     12.00(In.)
Calculated individual pipe flow  =     0.879(CFS)
Normal flow depth in pipe =    3.83(In.)
Flow top width inside pipe =   11.19(In.)
Critical Depth =    4.71(In.)
Pipe flow velocity =      4.07(Ft/s)
Travel time through pipe =    0.10 min.
Time of concentration (TC) =     4.90 min.


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Process from Point/Station        1.020 to Point/Station        1.050
**** CONFLUENCE OF MAIN STREAMS ****
______________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =      0.380(Ac.)
Runoff from this stream =      0.879(CFS)
Time of concentration =    4.90 min.
Rainfall intensity =     2.633(In/Hr)
Area averaged loss rate (Fm) =    0.0951(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


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Process from Point/Station        1.030 to Point/Station        1.040
**** INITIAL AREA EVALUATION ****
______________________________________________________________________________
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Adjusted SCS curve number for AMC 1 = 36.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.095(In/Hr)
Initial subarea data:
Initial area flow distance =   192.000(Ft.)
Top (of initial area) elevation =   638.300(Ft.)
Bottom (of initial area) elevation =   637.300(Ft.)
Difference in elevation =     1.000(Ft.)
Slope =    0.00521  s(%)=       0.52
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    7.126 min.
Rainfall intensity =      2.104(In/Hr) for a     2.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.859
Subarea runoff =      0.778(CFS)
Total initial stream area =        0.430(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.095(In/Hr)


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Process from Point/Station        1.040 to Point/Station        1.050
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =   626.600(Ft.)
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Downstream point/station elevation =   626.500(Ft.)
Pipe length  =    24.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     0.778(CFS)
Given pipe size =     12.00(In.)
Calculated individual pipe flow  =     0.778(CFS)
Normal flow depth in pipe =    4.81(In.)
Flow top width inside pipe =   11.76(In.)
Critical Depth =    4.42(In.)
Pipe flow velocity =      2.64(Ft/s)
Travel time through pipe =    0.15 min.
Time of concentration (TC) =     7.28 min.


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Process from Point/Station        1.040 to Point/Station        1.050
**** CONFLUENCE OF MAIN STREAMS ****
________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      0.430(Ac.)
Runoff from this stream =      0.778(CFS)
Time of concentration =    7.28 min.
Rainfall intensity =     2.078(In/Hr)
Area averaged loss rate (Fm) =    0.0951(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)   (Ac.)       (min) (In/Hr)     (In/Hr)


1      0.88     0.380      4.90    0.095      2.633
2      0.78     0.430      7.28    0.095      2.078
Qmax(1) =
           1.000 *    1.000 *     0.879) +
           1.280 *    0.674 *     0.778) + =       1.550
Qmax(2) =
           0.781 *    1.000 *     0.879) +
           1.000 *    1.000 *     0.778) + =       1.464

Total of 2 main streams to confluence:
Flow rates before confluence point:
       1.879       1.778
Maximum flow rates at confluence using above data:
        1.550        1.464
Area of streams before confluence:
        0.380        0.430
Effective area values after confluence:
        0.670        0.810


Results of confluence:
Total flow rate =      1.550(CFS)
Time of concentration =     4.904 min.
Effective stream area after confluence  =      0.670(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.095(In/Hr)
Study area total =       0.81(Ac.)


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Process from Point/Station        1.050 to Point/Station        1.080
**** PIPEFLOW TRAVEL TIME (User specified size) ****
------------------------------------------------------------------------
Upstream point/station elevation =   626.500(Ft.)
Downstream point/station elevation =   625.400(Ft.)
Pipe length  =   253.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     1.550(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =     1.550(CFS)
Normal flow depth in pipe =    5.79(In.)
Flow top width inside pipe =   16.82(In.)
Critical Depth =    5.60(In.)
Pipe flow velocity =      3.16(Ft/s)
Travel time through pipe =    1.33 min.
Time of concentration (TC) =     6.24 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.050 to Point/Station        1.080
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =      0.670(Ac.)
Runoff from this stream =      1.550(CFS)
Time of concentration =    6.24 min.
Rainfall intensity =     2.279(In/Hr)
Area averaged loss rate (Fm) =    0.0951(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.060 to Point/Station        1.070
**** INITIAL AREA EVALUATION ****
------------------------------------------------------------------------
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Adjusted SCS curve number for AMC 1 = 36.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.095(In/Hr)
Initial subarea data:
Initial area flow distance =   167.000(Ft.)
Top (of initial area) elevation =   636.700(Ft.)
Bottom (of initial area) elevation =   635.200(Ft.)
Difference in elevation =     1.500(Ft.)
Slope =    0.00898  s(%)=       0.90
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    6.043 min.
Rainfall intensity =      2.323(In/Hr) for a     2.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.863
Subarea runoff =      0.742(CFS)
Total initial stream area =        0.370(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.095(In/Hr)


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Process from Point/Station        1.070 to Point/Station        1.080
**** PIPEFLOW TRAVEL TIME (User specified size) ****
------------------------------------------------------------------------
Upstream point/station elevation =   626.200(Ft.)
Downstream point/station elevation =   625.400(Ft.)
Pipe length  =   161.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     0.742(CFS)
Given pipe size =     12.00(In.)
Calculated individual pipe flow  =     0.742(CFS)
Normal flow depth in pipe =    4.47(In.)
Flow top width inside pipe =   11.60(In.)
Critical Depth =    4.31(In.)
Pipe flow velocity =      2.78(Ft/s)
Travel time through pipe =    0.96 min.
Time of concentration (TC) =     7.01 min.


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Process from Point/Station        1.070 to Point/Station        1.080
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      0.370(Ac.)
Runoff from this stream =      0.742(CFS)
Time of concentration =    7.01 min.
Rainfall intensity =     2.125(In/Hr)
Area averaged loss rate (Fm) =    0.0951(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)   (Ac.)       (min) (In/Hr)     (In/Hr)


1      1.55     0.670      6.24    0.095      2.279
2      0.74     0.370      7.01    0.095      2.125
Qmax(1) =
           1.000 *    1.000 *     1.550) +
           1.076 *    0.890 *     0.742) + =       2.260
Qmax(2) =
           0.930 *    1.000 *     1.550) +
           1.000 *    1.000 *     0.742) + =       2.183

Total of 2 main streams to confluence:
Flow rates before confluence point:
       2.550       1.742
Maximum flow rates at confluence using above data:
        2.260        2.183
Area of streams before confluence:
        0.670        0.370
Effective area values after confluence:
        0.999        1.040


Results of confluence:
Total flow rate =      2.260(CFS)
Time of concentration =     6.239 min.
Effective stream area after confluence  =      0.999(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.095(In/Hr)
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Study area total =       1.04(Ac.)


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Process from Point/Station        1.080 to Point/Station        1.110
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =   625.400(Ft.)
Downstream point/station elevation =   625.000(Ft.)
Pipe length  =    41.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     2.260(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =     2.260(CFS)
Normal flow depth in pipe =    5.71(In.)
Flow top width inside pipe =   16.75(In.)
Critical Depth =    6.82(In.)
Pipe flow velocity =      4.70(Ft/s)
Travel time through pipe =    0.15 min.
Time of concentration (TC) =     6.38 min.


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Process from Point/Station        1.080 to Point/Station        1.110
**** CONFLUENCE OF MAIN STREAMS ****
______________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =      0.999(Ac.)
Runoff from this stream =      2.260(CFS)
Time of concentration =    6.38 min.
Rainfall intensity =     2.248(In/Hr)
Area averaged loss rate (Fm) =    0.0951(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.090 to Point/Station        1.100
**** INITIAL AREA EVALUATION ****
______________________________________________________________________________
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Adjusted SCS curve number for AMC 1 = 36.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.095(In/Hr)
Initial subarea data:
Initial area flow distance =   411.000(Ft.)
Top (of initial area) elevation =   637.800(Ft.)
Bottom (of initial area) elevation =   634.300(Ft.)
Difference in elevation =     3.500(Ft.)
Slope =    0.00852  s(%)=       0.85
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    8.757 min.
Rainfall intensity =      1.859(In/Hr) for a     2.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.854
Subarea runoff =      2.493(CFS)
Total initial stream area =        1.570(Ac.)
Pervious area fraction = 0.100
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Initial area Fm value =    0.095(In/Hr)


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Process from Point/Station        1.100 to Point/Station        1.110
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =   625.100(Ft.)
Downstream point/station elevation =   625.000(Ft.)
Pipe length  =    16.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     2.493(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =     2.493(CFS)
Normal flow depth in pipe =    6.76(In.)
Flow top width inside pipe =   17.43(In.)
Critical Depth =    7.17(In.)
Pipe flow velocity =      4.11(Ft/s)
Travel time through pipe =    0.06 min.
Time of concentration (TC) =     8.82 min.


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Process from Point/Station        1.100 to Point/Station        1.110
**** CONFLUENCE OF MAIN STREAMS ****
______________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      1.570(Ac.)
Runoff from this stream =      2.493(CFS)
Time of concentration =    8.82 min.
Rainfall intensity =     1.851(In/Hr)
Area averaged loss rate (Fm) =    0.0951(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)   (Ac.)       (min) (In/Hr)     (In/Hr)


1      2.26     0.999      6.38    0.095      2.248
2      2.49     1.570      8.82    0.095      1.851
Qmax(1) =
           1.000 *    1.000 *     2.260) +
           1.226 *    0.724 *     2.493) + =       4.471
Qmax(2) =
           0.816 *    1.000 *     2.260) +
           1.000 *    1.000 *     2.493) + =       4.337

Total of 2 main streams to confluence:
Flow rates before confluence point:
       3.260       3.493
Maximum flow rates at confluence using above data:
        4.471        4.337
Area of streams before confluence:
        0.999        1.570
Effective area values after confluence:
        2.135        2.569


Results of confluence:
Total flow rate =      4.471(CFS)
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Time of concentration =     6.385 min.
Effective stream area after confluence  =      2.135(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.095(In/Hr)
Study area total =       2.57(Ac.)


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Process from Point/Station        1.110 to Point/Station        1.140
**** PIPEFLOW TRAVEL TIME (User specified size) ****
________________________________________________________________________
Upstream point/station elevation =   625.000(Ft.)
Downstream point/station elevation =   624.200(Ft.)
Pipe length  =   148.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     4.471(CFS)
Given pipe size =     24.00(In.)
Calculated individual pipe flow  =     4.471(CFS)
Normal flow depth in pipe =    8.50(In.)
Flow top width inside pipe =   22.95(In.)
Critical Depth =    8.91(In.)
Pipe flow velocity =      4.49(Ft/s)
Travel time through pipe =    0.55 min.
Time of concentration (TC) =     6.93 min.


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Process from Point/Station        1.110 to Point/Station        1.140
**** CONFLUENCE OF MAIN STREAMS ****
________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =      2.135(Ac.)
Runoff from this stream =      4.471(CFS)
Time of concentration =    6.93 min.
Rainfall intensity =     2.139(In/Hr)
Area averaged loss rate (Fm) =    0.0951(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.120 to Point/Station        1.130
**** INITIAL AREA EVALUATION ****
________________________________________________________________________
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Adjusted SCS curve number for AMC 1 = 36.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.095(In/Hr)
Initial subarea data:
Initial area flow distance =   306.000(Ft.)
Top (of initial area) elevation =   635.800(Ft.)
Bottom (of initial area) elevation =   633.000(Ft.)
Difference in elevation =     2.800(Ft.)
Slope =    0.00915  s(%)=       0.92
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    7.671 min.
Rainfall intensity =      2.013(In/Hr) for a     2.0 year storm
```

```
Effective runoff coefficient used for area (Q=KCIA) is C = 0.857
Subarea runoff =      1.985(CFS)
Total initial stream area =        1.150(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.095(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.130 to Point/Station        1.140
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =   624.600(Ft.)
Downstream point/station elevation =   624.200(Ft.)
Pipe length  =    23.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     1.985(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =     1.985(CFS)
Normal flow depth in pipe =    4.61(In.)
Flow top width inside pipe =   15.71(In.)
Critical Depth =    6.37(In.)
Pipe flow velocity =      5.57(Ft/s)
Travel time through pipe =    0.07 min.
Time of concentration (TC) =     7.74 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.130 to Point/Station        1.140
**** CONFLUENCE OF MAIN STREAMS ****
______________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      1.150(Ac.)
Runoff from this stream =      1.985(CFS)
Time of concentration =    7.74 min.
Rainfall intensity =     2.002(In/Hr)
Area averaged loss rate (Fm) =    0.0951(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)   (Ac.)       (min) (In/Hr)     (In/Hr)


1      4.47     2.135      6.93    0.095      2.139
2      1.99     1.150      7.74    0.095      2.002
Qmax(1) =
           1.000 *    1.000 *     4.471) +
           1.072 *    0.896 *     1.985) + =       6.377
Qmax(2) =
           0.933 *    1.000 *     4.471) +
           1.000 *    1.000 *     1.985) + =       6.158

Total of 2 main streams to confluence:
Flow rates before confluence point:
       5.471       2.985
Maximum flow rates at confluence using above data:
        6.377        6.158
Area of streams before confluence:
        2.135        1.150
Effective area values after confluence:
        3.166        3.285
```

```
Results of confluence:
Total flow rate =      6.377(CFS)
Time of concentration =     6.934 min.
Effective stream area after confluence  =      3.166(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.095(In/Hr)
Study area total =       3.29(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.140 to Point/Station        1.170
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =   624.200(Ft.)
Downstream point/station elevation =   623.900(Ft.)
Pipe length  =   172.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     6.377(CFS)
Given pipe size =     30.00(In.)
Calculated individual pipe flow  =     6.377(CFS)
Normal flow depth in pipe =   12.68(In.)
Flow top width inside pipe =   29.64(In.)
Critical Depth =   10.03(In.)
Pipe flow velocity =      3.23(Ft/s)
Travel time through pipe =    0.89 min.
Time of concentration (TC) =     7.82 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.140 to Point/Station        1.170
**** CONFLUENCE OF MAIN STREAMS ****
______________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =      3.166(Ac.)
Runoff from this stream =      6.377(CFS)
Time of concentration =    7.82 min.
Rainfall intensity =     1.990(In/Hr)
Area averaged loss rate (Fm) =    0.0951(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.150 to Point/Station        1.160
**** INITIAL AREA EVALUATION ****
______________________________________________________________________________
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Adjusted SCS curve number for AMC 1 = 36.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.095(In/Hr)
Initial subarea data:
Initial area flow distance =   191.000(Ft.)
Top (of initial area) elevation =   635.400(Ft.)
Bottom (of initial area) elevation =   633.600(Ft.)
Difference in elevation =     1.800(Ft.)
```

```
Slope =    0.00942  s(%)=       0.94
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    6.316 min.
Rainfall intensity =      2.262(In/Hr) for a     2.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.862
Subarea runoff =      0.429(CFS)
Total initial stream area =        0.220(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.095(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.160 to Point/Station        1.170
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =   624.000(Ft.)
Downstream point/station elevation =   623.900(Ft.)
Pipe length  =    19.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     0.429(CFS)
Given pipe size =     12.00(In.)
Calculated individual pipe flow  =     0.429(CFS)
Normal flow depth in pipe =    3.30(In.)
Flow top width inside pipe =   10.72(In.)
Critical Depth =    3.24(In.)
Pipe flow velocity =      2.44(Ft/s)
Travel time through pipe =    0.13 min.
Time of concentration (TC) =     6.45 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.160 to Point/Station        1.170
**** CONFLUENCE OF MAIN STREAMS ****
______________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      0.220(Ac.)
Runoff from this stream =      0.429(CFS)
Time of concentration =    6.45 min.
Rainfall intensity =     2.235(In/Hr)
Area averaged loss rate (Fm) =    0.0951(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)   (Ac.)       (min) (In/Hr)     (In/Hr)


1      6.38     3.166      7.82    0.095      1.990
2      0.43     0.220      6.45    0.095      2.235
Qmax(1) =
           1.000 *    1.000 *     6.377) +
           0.886 *    1.000 *     0.429) + =       6.757
Qmax(2) =
           1.129 *    0.824 *     6.377) +
           1.000 *    1.000 *     0.429) + =       6.364

Total of 2 main streams to confluence:
Flow rates before confluence point:
       7.377       1.429
Maximum flow rates at confluence using above data:
        6.757        6.364
```

```
Area of streams before confluence:
        3.166        0.220
Effective area values after confluence:
        3.386        2.829


Results of confluence:
Total flow rate =      6.757(CFS)
Time of concentration =     7.821 min.
Effective stream area after confluence  =      3.386(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.095(In/Hr)
Study area total =       3.39(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.170 to Point/Station        1.180
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =   623.900(Ft.)
Downstream point/station elevation =   623.800(Ft.)
Pipe length  =    13.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     6.757(CFS)
Given pipe size =     30.00(In.)
Calculated individual pipe flow  =     6.757(CFS)
Normal flow depth in pipe =    8.81(In.)
Flow top width inside pipe =   27.33(In.)
Critical Depth =   10.34(In.)
Pipe flow velocity =      5.62(Ft/s)
Travel time through pipe =    0.04 min.
Time of concentration (TC) =     7.86 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.180 to Point/Station        1.190
**** IMPROVED CHANNEL TRAVEL TIME ****
______________________________________________________________________________
Covered channel
Upstream point elevation =   623.780(Ft.)
Downstream point elevation =   623.600(Ft.)
Channel length thru subarea  =    43.000(Ft.)
Channel base width      =    3.500(Ft.)
Slope or 'Z' of left channel bank =   0.000
Slope or 'Z' of right channel bank =   0.000
Manning's 'N'    = 0.013
Maximum depth of channel  =    1.000(Ft.)
Flow(q) thru subarea =      6.757(CFS)
Depth of flow =   0.493(Ft.), Average velocity =   3.913(Ft/s)
Channel flow top width =    3.500(Ft.)
Flow Velocity =    3.91(Ft/s)
Travel time  =    0.18 min.
Time of concentration =    8.04 min.
Critical depth =      0.484(Ft.)
End of computations, Total Study Area =            4.12 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.
Note: These figures do not consider reduced effective area
effects caused by confluences in the rational equation.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged SCS curve number =  56.0
```

2-YEAR PRE AND POST DEVELOPMENT PEAK RUNOFF AND 24-HOUR RUNOFF VOLUME CALCULATION (UNIT HYDROGRAPH METHOD)

U n i t H y d r o g r a p h A n a l y s i s

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Study date 01/24/25

++

San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6103

UNIT HYDROGRAPH METHOD
2-YEAR PREDEVELOPMENT
4200001UHEX02
FUSCOE ENGINEERING

Storm Event Year = 2

Antecedent Moisture Condition = 1

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 2		
4.12	1	0.59
Rainfall data for year 2		
4.12	6	1.55
Rainfall data for year 2		
4.12	24	2.68

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 1)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
80.0	63.0	4.12	1.000	0.637	0.960	0.612

Area-averaged adjusted loss rate Fm (In/Hr) = 0.612

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC1)	S	Pervious Yield Fr
3.96	0.960	80.0	63.0	5.87	0.115
0.16	0.040	98.0	98.0	0.20	0.914

Area-averaged catchment yield fraction, Y = 0.147
Area-averaged low loss fraction, Yb = 0.853
User entry of time of concentration = 0.263 (hours)
++
Watershed area = 4.12(Ac.)
Catchment Lag time = 0.210 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 39.6825
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.612(In/Hr)
Average low loss rate fraction (Yb) = 0.853 (decimal)
VALLEY DEVELOPED S-Graph proportion = 0.043
VALLEY UNDEVELOPED S-Graph proportion = 0.957
FOOTHILL S-Graph proportion = 0.000
MOUNTAIN S-Graph proportion = 0.000
DESERT S-Graph proportion = 0.000

Computed peak 5-minute rainfall = 0.217(In)
Computed peak 30-minute rainfall = 0.444(In)
Specified peak 1-hour rainfall = 0.586(In)
Computed peak 3-hour rainfall = 1.064(In)
Specified peak 6-hour rainfall = 1.550(In)
Specified peak 24-hour rainfall = 2.680(In)

Rainfall depth area reduction factors:
Using a total area of 4.12(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.217(In)
30-minute factor = 1.000 Adjusted rainfall = 0.444(In)
1-hour factor = 1.000 Adjusted rainfall = 0.586(In)
3-hour factor = 1.000 Adjusted rainfall = 1.064(In)
6-hour factor = 1.000 Adjusted rainfall = 1.550(In)
24-hour factor = 1.000 Adjusted rainfall = 2.680(In)

U n i t H y d r o g r a p h
++

Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
	(K = 49.83 (CFS))	
1	4.248	2.117
2	21.828	8.759
3	48.538	13.309
4	66.607	9.003
5	75.434	4.398
6	80.852	2.700
7	84.789	1.961
8	87.793	1.497
9	90.170	1.184
10	92.045	0.934
11	93.523	0.736
12	94.723	0.598

13	95.842	0.558
14	96.731	0.443
15	97.471	0.369
16	98.096	0.311
17	98.599	0.251
18	98.990	0.195
19	99.370	0.189
20	99.749	0.189
21	100.000	0.125

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.2168	0.2168
2	0.2861	0.0693
3	0.3365	0.0504
4	0.3775	0.0410
5	0.4128	0.0352
6	0.4440	0.0312
7	0.4723	0.0282
8	0.4982	0.0259
9	0.5222	0.0240
10	0.5447	0.0225
11	0.5658	0.0212
12	0.5859	0.0200
13	0.6119	0.0260
14	0.6370	0.0251
15	0.6614	0.0243
16	0.6849	0.0236
17	0.7079	0.0229
18	0.7302	0.0223
19	0.7519	0.0218
20	0.7732	0.0212
21	0.7939	0.0208
22	0.8143	0.0203
23	0.8341	0.0199
24	0.8536	0.0195
25	0.8728	0.0191
26	0.8916	0.0188
27	0.9100	0.0185
28	0.9282	0.0182
29	0.9460	0.0179
30	0.9636	0.0176
31	0.9809	0.0173
32	0.9980	0.0171
33	1.0148	0.0168
34	1.0314	0.0166
35	1.0478	0.0164
36	1.0639	0.0162
37	1.0798	0.0159
38	1.0956	0.0157
39	1.1112	0.0156
40	1.1265	0.0154
41	1.1417	0.0152
42	1.1568	0.0150
43	1.1716	0.0149
44	1.1864	0.0147
45	1.2009	0.0146
46	1.2153	0.0144
47	1.2296	0.0143
48	1.2437	0.0141
49	1.2577	0.0140

50	1.2716	0.0139
51	1.2854	0.0137
52	1.2990	0.0136
53	1.3125	0.0135
54	1.3259	0.0134
55	1.3391	0.0133
56	1.3523	0.0132
57	1.3654	0.0131
58	1.3783	0.0130
59	1.3912	0.0129
60	1.4039	0.0128
61	1.4166	0.0127
62	1.4291	0.0126
63	1.4416	0.0125
64	1.4540	0.0124
65	1.4663	0.0123
66	1.4785	0.0122
67	1.4906	0.0121
68	1.5026	0.0120
69	1.5146	0.0120
70	1.5265	0.0119
71	1.5383	0.0118
72	1.5500	0.0117
73	1.5584	0.0085
74	1.5668	0.0084
75	1.5752	0.0083
76	1.5834	0.0083
77	1.5916	0.0082
78	1.5998	0.0081
79	1.6078	0.0081
80	1.6158	0.0080
81	1.6238	0.0079
82	1.6317	0.0079
83	1.6395	0.0078
84	1.6473	0.0078
85	1.6550	0.0077
86	1.6627	0.0077
87	1.6703	0.0076
88	1.6778	0.0076
89	1.6853	0.0075
90	1.6928	0.0075
91	1.7002	0.0074
92	1.7076	0.0074
93	1.7149	0.0073
94	1.7221	0.0073
95	1.7293	0.0072
96	1.7365	0.0072
97	1.7436	0.0071
98	1.7507	0.0071
99	1.7577	0.0070
100	1.7647	0.0070
101	1.7717	0.0069
102	1.7786	0.0069
103	1.7855	0.0069
104	1.7923	0.0068
105	1.7991	0.0068
106	1.8058	0.0067
107	1.8125	0.0067
108	1.8192	0.0067
109	1.8258	0.0066
110	1.8324	0.0066

111	1.8390	0.0066
112	1.8455	0.0065
113	1.8520	0.0065
114	1.8585	0.0065
115	1.8649	0.0064
116	1.8713	0.0064
117	1.8776	0.0064
118	1.8840	0.0063
119	1.8902	0.0063
120	1.8965	0.0063
121	1.9027	0.0062
122	1.9089	0.0062
123	1.9151	0.0062
124	1.9212	0.0061
125	1.9273	0.0061
126	1.9334	0.0061
127	1.9395	0.0060
128	1.9455	0.0060
129	1.9515	0.0060
130	1.9574	0.0060
131	1.9634	0.0059
132	1.9693	0.0059
133	1.9751	0.0059
134	1.9810	0.0059
135	1.9868	0.0058
136	1.9926	0.0058
137	1.9984	0.0058
138	2.0041	0.0057
139	2.0099	0.0057
140	2.0156	0.0057
141	2.0212	0.0057
142	2.0269	0.0057
143	2.0325	0.0056
144	2.0381	0.0056
145	2.0437	0.0056
146	2.0493	0.0056
147	2.0548	0.0055
148	2.0603	0.0055
149	2.0658	0.0055
150	2.0712	0.0055
151	2.0767	0.0054
152	2.0821	0.0054
153	2.0875	0.0054
154	2.0929	0.0054
155	2.0982	0.0054
156	2.1036	0.0053
157	2.1089	0.0053
158	2.1142	0.0053
159	2.1195	0.0053
160	2.1247	0.0053
161	2.1300	0.0052
162	2.1352	0.0052
163	2.1404	0.0052
164	2.1456	0.0052
165	2.1507	0.0052
166	2.1558	0.0051
167	2.1610	0.0051
168	2.1661	0.0051
169	2.1712	0.0051
170	2.1762	0.0051
171	2.1813	0.0050

172	2.1863	0.0050
173	2.1913	0.0050
174	2.1963	0.0050
175	2.2013	0.0050
176	2.2062	0.0050
177	2.2112	0.0049
178	2.2161	0.0049
179	2.2210	0.0049
180	2.2259	0.0049
181	2.2308	0.0049
182	2.2356	0.0049
183	2.2405	0.0048
184	2.2453	0.0048
185	2.2501	0.0048
186	2.2549	0.0048
187	2.2597	0.0048
188	2.2645	0.0048
189	2.2692	0.0048
190	2.2740	0.0047
191	2.2787	0.0047
192	2.2834	0.0047
193	2.2881	0.0047
194	2.2927	0.0047
195	2.2974	0.0047
196	2.3021	0.0046
197	2.3067	0.0046
198	2.3113	0.0046
199	2.3159	0.0046
200	2.3205	0.0046
201	2.3251	0.0046
202	2.3296	0.0046
203	2.3342	0.0045
204	2.3387	0.0045
205	2.3432	0.0045
206	2.3477	0.0045
207	2.3522	0.0045
208	2.3567	0.0045
209	2.3612	0.0045
210	2.3657	0.0045
211	2.3701	0.0044
212	2.3745	0.0044
213	2.3789	0.0044
214	2.3833	0.0044
215	2.3877	0.0044
216	2.3921	0.0044
217	2.3965	0.0044
218	2.4008	0.0044
219	2.4052	0.0043
220	2.4095	0.0043
221	2.4138	0.0043
222	2.4182	0.0043
223	2.4224	0.0043
224	2.4267	0.0043
225	2.4310	0.0043
226	2.4353	0.0043
227	2.4395	0.0043
228	2.4438	0.0042
229	2.4480	0.0042
230	2.4522	0.0042
231	2.4564	0.0042
232	2.4606	0.0042

233	2.4648	0.0042	
234	2.4690	0.0042	
235	2.4731	0.0042	
236	2.4773	0.0042	
237	2.4814	0.0041	
238	2.4855	0.0041	
239	2.4897	0.0041	
240	2.4938	0.0041	
241	2.4979	0.0041	
242	2.5020	0.0041	
243	2.5060	0.0041	
244	2.5101	0.0041	
245	2.5142	0.0041	
246	2.5182	0.0040	
247	2.5223	0.0040	
248	2.5263	0.0040	
249	2.5303	0.0040	
250	2.5343	0.0040	
251	2.5383	0.0040	
252	2.5423	0.0040	
253	2.5463	0.0040	
254	2.5502	0.0040	
255	2.5542	0.0040	
256	2.5582	0.0040	
257	2.5621	0.0039	
258	2.5660	0.0039	
259	2.5700	0.0039	
260	2.5739	0.0039	
261	2.5778	0.0039	
262	2.5817	0.0039	
263	2.5856	0.0039	
264	2.5894	0.0039	
265	2.5933	0.0039	
266	2.5972	0.0039	
267	2.6010	0.0039	
268	2.6049	0.0038	
269	2.6087	0.0038	
270	2.6125	0.0038	
271	2.6163	0.0038	
272	2.6202	0.0038	
273	2.6240	0.0038	
274	2.6278	0.0038	
275	2.6315	0.0038	
276	2.6353	0.0038	
277	2.6391	0.0038	
278	2.6428	0.0038	
279	2.6466	0.0038	
280	2.6503	0.0037	
281	2.6541	0.0037	
282	2.6578	0.0037	
283	2.6615	0.0037	
284	2.6652	0.0037	
285	2.6689	0.0037	
286	2.6726	0.0037	
287	2.6763	0.0037	
288	2.6800	0.0037	

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)

1	0.0037	0.0031	0.0005
2	0.0037	0.0031	0.0005
3	0.0037	0.0032	0.0005
4	0.0037	0.0032	0.0005
5	0.0037	0.0032	0.0005
6	0.0037	0.0032	0.0005
7	0.0038	0.0032	0.0005
8	0.0038	0.0032	0.0006
9	0.0038	0.0032	0.0006
10	0.0038	0.0032	0.0006
11	0.0038	0.0032	0.0006
12	0.0038	0.0033	0.0006
13	0.0038	0.0033	0.0006
14	0.0038	0.0033	0.0006
15	0.0039	0.0033	0.0006
16	0.0039	0.0033	0.0006
17	0.0039	0.0033	0.0006
18	0.0039	0.0033	0.0006
19	0.0039	0.0033	0.0006
20	0.0039	0.0033	0.0006
21	0.0039	0.0034	0.0006
22	0.0039	0.0034	0.0006
23	0.0040	0.0034	0.0006
24	0.0040	0.0034	0.0006
25	0.0040	0.0034	0.0006
26	0.0040	0.0034	0.0006
27	0.0040	0.0034	0.0006
28	0.0040	0.0034	0.0006
29	0.0040	0.0035	0.0006
30	0.0041	0.0035	0.0006
31	0.0041	0.0035	0.0006
32	0.0041	0.0035	0.0006
33	0.0041	0.0035	0.0006
34	0.0041	0.0035	0.0006
35	0.0041	0.0035	0.0006
36	0.0042	0.0035	0.0006
37	0.0042	0.0036	0.0006
38	0.0042	0.0036	0.0006
39	0.0042	0.0036	0.0006
40	0.0042	0.0036	0.0006
41	0.0042	0.0036	0.0006
42	0.0043	0.0036	0.0006
43	0.0043	0.0036	0.0006
44	0.0043	0.0037	0.0006
45	0.0043	0.0037	0.0006
46	0.0043	0.0037	0.0006
47	0.0043	0.0037	0.0006
48	0.0044	0.0037	0.0006
49	0.0044	0.0037	0.0006
50	0.0044	0.0037	0.0006
51	0.0044	0.0038	0.0006
52	0.0044	0.0038	0.0006
53	0.0045	0.0038	0.0007
54	0.0045	0.0038	0.0007
55	0.0045	0.0038	0.0007
56	0.0045	0.0038	0.0007
57	0.0045	0.0039	0.0007
58	0.0045	0.0039	0.0007
59	0.0046	0.0039	0.0007
60	0.0046	0.0039	0.0007
61	0.0046	0.0039	0.0007

62	0.0046	0.0040	0.0007
63	0.0047	0.0040	0.0007
64	0.0047	0.0040	0.0007
65	0.0047	0.0040	0.0007
66	0.0047	0.0040	0.0007
67	0.0048	0.0041	0.0007
68	0.0048	0.0041	0.0007
69	0.0048	0.0041	0.0007
70	0.0048	0.0041	0.0007
71	0.0048	0.0041	0.0007
72	0.0049	0.0041	0.0007
73	0.0049	0.0042	0.0007
74	0.0049	0.0042	0.0007
75	0.0049	0.0042	0.0007
76	0.0050	0.0042	0.0007
77	0.0050	0.0043	0.0007
78	0.0050	0.0043	0.0007
79	0.0050	0.0043	0.0007
80	0.0051	0.0043	0.0007
81	0.0051	0.0044	0.0007
82	0.0051	0.0044	0.0008
83	0.0052	0.0044	0.0008
84	0.0052	0.0044	0.0008
85	0.0052	0.0045	0.0008
86	0.0052	0.0045	0.0008
87	0.0053	0.0045	0.0008
88	0.0053	0.0045	0.0008
89	0.0053	0.0046	0.0008
90	0.0054	0.0046	0.0008
91	0.0054	0.0046	0.0008
92	0.0054	0.0046	0.0008
93	0.0055	0.0047	0.0008
94	0.0055	0.0047	0.0008
95	0.0055	0.0047	0.0008
96	0.0056	0.0047	0.0008
97	0.0056	0.0048	0.0008
98	0.0056	0.0048	0.0008
99	0.0057	0.0048	0.0008
100	0.0057	0.0049	0.0008
101	0.0057	0.0049	0.0008
102	0.0058	0.0049	0.0008
103	0.0058	0.0050	0.0009
104	0.0059	0.0050	0.0009
105	0.0059	0.0050	0.0009
106	0.0059	0.0051	0.0009
107	0.0060	0.0051	0.0009
108	0.0060	0.0051	0.0009
109	0.0061	0.0052	0.0009
110	0.0061	0.0052	0.0009
111	0.0062	0.0053	0.0009
112	0.0062	0.0053	0.0009
113	0.0063	0.0053	0.0009
114	0.0063	0.0054	0.0009
115	0.0064	0.0054	0.0009
116	0.0064	0.0055	0.0009
117	0.0065	0.0055	0.0009
118	0.0065	0.0055	0.0010
119	0.0066	0.0056	0.0010
120	0.0066	0.0056	0.0010
121	0.0067	0.0057	0.0010
122	0.0067	0.0057	0.0010

123	0.0068	0.0058	0.0010
124	0.0068	0.0058	0.0010
125	0.0069	0.0059	0.0010
126	0.0069	0.0059	0.0010
127	0.0070	0.0060	0.0010
128	0.0071	0.0060	0.0010
129	0.0072	0.0061	0.0011
130	0.0072	0.0062	0.0011
131	0.0073	0.0062	0.0011
132	0.0074	0.0063	0.0011
133	0.0075	0.0064	0.0011
134	0.0075	0.0064	0.0011
135	0.0076	0.0065	0.0011
136	0.0077	0.0065	0.0011
137	0.0078	0.0066	0.0011
138	0.0078	0.0067	0.0011
139	0.0079	0.0068	0.0012
140	0.0080	0.0068	0.0012
141	0.0081	0.0069	0.0012
142	0.0082	0.0070	0.0012
143	0.0083	0.0071	0.0012
144	0.0084	0.0072	0.0012
145	0.0117	0.0100	0.0017
146	0.0118	0.0101	0.0017
147	0.0120	0.0102	0.0018
148	0.0120	0.0103	0.0018
149	0.0122	0.0104	0.0018
150	0.0123	0.0105	0.0018
151	0.0125	0.0106	0.0018
152	0.0126	0.0107	0.0018
153	0.0128	0.0109	0.0019
154	0.0129	0.0110	0.0019
155	0.0131	0.0111	0.0019
156	0.0132	0.0112	0.0019
157	0.0134	0.0114	0.0020
158	0.0135	0.0115	0.0020
159	0.0137	0.0117	0.0020
160	0.0139	0.0118	0.0020
161	0.0141	0.0121	0.0021
162	0.0143	0.0122	0.0021
163	0.0146	0.0124	0.0021
164	0.0147	0.0126	0.0022
165	0.0150	0.0128	0.0022
166	0.0152	0.0130	0.0022
167	0.0156	0.0133	0.0023
168	0.0157	0.0134	0.0023
169	0.0162	0.0138	0.0024
170	0.0164	0.0140	0.0024
171	0.0168	0.0144	0.0025
172	0.0171	0.0146	0.0025
173	0.0176	0.0150	0.0026
174	0.0179	0.0152	0.0026
175	0.0185	0.0158	0.0027
176	0.0188	0.0160	0.0028
177	0.0195	0.0166	0.0029
178	0.0199	0.0170	0.0029
179	0.0208	0.0177	0.0030
180	0.0212	0.0181	0.0031
181	0.0223	0.0190	0.0033
182	0.0229	0.0196	0.0034
183	0.0243	0.0208	0.0036

184	0.0251	0.0214	0.0037
185	0.0200	0.0171	0.0029
186	0.0212	0.0181	0.0031
187	0.0240	0.0205	0.0035
188	0.0259	0.0221	0.0038
189	0.0312	0.0267	0.0046
190	0.0352	0.0301	0.0052
191	0.0504	0.0430	0.0074
192	0.0693	0.0510	0.0183
193	0.2168	0.0510	0.1659
194	0.0410	0.0350	0.0060
195	0.0282	0.0241	0.0041
196	0.0225	0.0192	0.0033
197	0.0260	0.0222	0.0038
198	0.0236	0.0201	0.0035
199	0.0218	0.0186	0.0032
200	0.0203	0.0173	0.0030
201	0.0191	0.0163	0.0028
202	0.0182	0.0155	0.0027
203	0.0173	0.0148	0.0025
204	0.0166	0.0142	0.0024
205	0.0159	0.0136	0.0023
206	0.0154	0.0131	0.0023
207	0.0149	0.0127	0.0022
208	0.0144	0.0123	0.0021
209	0.0140	0.0119	0.0021
210	0.0136	0.0116	0.0020
211	0.0133	0.0113	0.0019
212	0.0130	0.0111	0.0019
213	0.0127	0.0108	0.0019
214	0.0124	0.0106	0.0018
215	0.0121	0.0103	0.0018
216	0.0119	0.0101	0.0017
217	0.0085	0.0072	0.0012
218	0.0083	0.0071	0.0012
219	0.0081	0.0069	0.0012
220	0.0079	0.0067	0.0012
221	0.0077	0.0066	0.0011
222	0.0076	0.0064	0.0011
223	0.0074	0.0063	0.0011
224	0.0073	0.0062	0.0011
225	0.0071	0.0061	0.0010
226	0.0070	0.0060	0.0010
227	0.0069	0.0059	0.0010
228	0.0067	0.0058	0.0010
229	0.0066	0.0057	0.0010
230	0.0065	0.0056	0.0010
231	0.0064	0.0055	0.0009
232	0.0063	0.0054	0.0009
233	0.0062	0.0053	0.0009
234	0.0061	0.0052	0.0009
235	0.0060	0.0052	0.0009
236	0.0060	0.0051	0.0009
237	0.0059	0.0050	0.0009
238	0.0058	0.0049	0.0009
239	0.0057	0.0049	0.0008
240	0.0057	0.0048	0.0008
241	0.0056	0.0048	0.0008
242	0.0055	0.0047	0.0008
243	0.0054	0.0046	0.0008
244	0.0054	0.0046	0.0008

```
      245              0.0053          0.0045              0.0008
      246              0.0053          0.0045              0.0008
      247              0.0052          0.0044              0.0008
      248              0.0051          0.0044              0.0008
      249              0.0051          0.0043              0.0007
      250              0.0050          0.0043              0.0007
      251              0.0050          0.0042              0.0007
      252              0.0049          0.0042              0.0007
      253              0.0049          0.0042              0.0007
      254              0.0048          0.0041              0.0007
      255              0.0048          0.0041              0.0007
      256              0.0047          0.0040              0.0007
      257              0.0047          0.0040              0.0007
      258              0.0046          0.0040              0.0007
      259              0.0046          0.0039              0.0007
      260              0.0046          0.0039              0.0007
      261              0.0045          0.0039              0.0007
      262              0.0045          0.0038              0.0007
      263              0.0044          0.0038              0.0007
      264              0.0044          0.0038              0.0006
      265              0.0044          0.0037              0.0006
      266              0.0043          0.0037              0.0006
      267              0.0043          0.0037              0.0006
      268              0.0043          0.0036              0.0006
      269              0.0042          0.0036              0.0006
      270              0.0042          0.0036              0.0006
      271              0.0042          0.0036              0.0006
      272              0.0041          0.0035              0.0006
      273              0.0041          0.0035              0.0006
      274              0.0041          0.0035              0.0006
      275              0.0040          0.0034              0.0006
      276              0.0040          0.0034              0.0006
      277              0.0040          0.0034              0.0006
      278              0.0040          0.0034              0.0006
      279              0.0039          0.0033              0.0006
      280              0.0039          0.0033              0.0006
      281              0.0039          0.0033              0.0006
      282              0.0038          0.0033              0.0006
      283              0.0038          0.0033              0.0006
      284              0.0038          0.0032              0.0006
      285              0.0038          0.0032              0.0006
      286              0.0037          0.0032              0.0005
      287              0.0037          0.0032              0.0005
      288              0.0037          0.0032              0.0005
      ------------------------------------------------------------------
      ------------------------------------------------------------------
      Total soil rain loss =      2.14(In)
      Total effective rainfall =      0.54(In)
      Peak flow rate in flood hydrograph =      2.51(CFS)
      ------------------------------------------------------------------
      ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          24 - H O U R    S T O R M
                     R u n o f f      H y d r o g r a p h
      ------------------------------------------------------------------
                   Hydrograph in   5   Minute intervals ((CFS))

      ------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
------------------------------------------------------------------------
  0+ 5       0.0000      0.00  Q         |         |         |         |
  0+10       0.0000      0.01  Q         |         |         |         |
```

0+15	0.0001	0.01	Q				
0+20	0.0003	0.02	Q				
0+25	0.0004	0.02	Q				
0+30	0.0006	0.02	Q				
0+35	0.0007	0.02	Q				
0+40	0.0009	0.02	Q				
0+45	0.0010	0.02	Q				
0+50	0.0012	0.03	Q				
0+55	0.0014	0.03	Q				
1+ 0	0.0016	0.03	Q				
1+ 5	0.0018	0.03	Q				
1+10	0.0019	0.03	Q				
1+15	0.0021	0.03	Q				
1+20	0.0023	0.03	Q				
1+25	0.0025	0.03	Q				
1+30	0.0027	0.03	Q				
1+35	0.0029	0.03	Q				
1+40	0.0031	0.03	Q				
1+45	0.0033	0.03	Q				
1+50	0.0035	0.03	Q				
1+55	0.0037	0.03	Q				
2+ 0	0.0039	0.03	Q				
2+ 5	0.0041	0.03	Q				
2+10	0.0043	0.03	Q				
2+15	0.0045	0.03	Q				
2+20	0.0047	0.03	QV				
2+25	0.0049	0.03	QV				
2+30	0.0051	0.03	QV				
2+35	0.0053	0.03	QV				
2+40	0.0055	0.03	QV				
2+45	0.0057	0.03	QV				
2+50	0.0059	0.03	QV				
2+55	0.0061	0.03	QV				
3+ 0	0.0063	0.03	QV				
3+ 5	0.0065	0.03	QV				
3+10	0.0067	0.03	QV				
3+15	0.0069	0.03	QV				
3+20	0.0071	0.03	QV				
3+25	0.0073	0.03	QV				
3+30	0.0075	0.03	QV				
3+35	0.0078	0.03	QV				
3+40	0.0080	0.03	QV				
3+45	0.0082	0.03	QV				
3+50	0.0084	0.03	QV				
3+55	0.0086	0.03	QV				
4+ 0	0.0088	0.03	QV				
4+ 5	0.0090	0.03	QV				
4+10	0.0093	0.03	Q V				
4+15	0.0095	0.03	Q V				
4+20	0.0097	0.03	Q V				
4+25	0.0099	0.03	Q V				
4+30	0.0101	0.03	Q V				
4+35	0.0104	0.03	Q V				
4+40	0.0106	0.03	Q V				
4+45	0.0108	0.03	Q V				
4+50	0.0110	0.03	Q V				
4+55	0.0113	0.03	Q V				
5+ 0	0.0115	0.03	Q V				
5+ 5	0.0117	0.03	Q V				
5+10	0.0120	0.03	Q V				
5+15	0.0122	0.03	Q V				

5+20	0.0124	0.03	Q V	|	|	|	|
5+25	0.0126	0.03	Q V	|	|	|	|
5+30	0.0129	0.03	Q V	|	|	|	|
5+35	0.0131	0.03	Q V	|	|	|	|
5+40	0.0133	0.03	Q V	|	|	|	|
5+45	0.0136	0.03	Q V	|	|	|	|
5+50	0.0138	0.03	Q V	|	|	|	|
5+55	0.0141	0.03	Q V	|	|	|	|
6+ 0	0.0143	0.03	Q V	|	|	|	|
6+ 5	0.0145	0.04	Q V	|	|	|	|
6+10	0.0148	0.04	Q V	|	|	|	|
6+15	0.0150	0.04	Q V	|	|	|	|
6+20	0.0153	0.04	Q V	|	|	|	|
6+25	0.0155	0.04	Q V	|	|	|	|
6+30	0.0158	0.04	Q V	|	|	|	|
6+35	0.0160	0.04	Q V	|	|	|	|
6+40	0.0163	0.04	Q V	|	|	|	|
6+45	0.0165	0.04	Q V	|	|	|	|
6+50	0.0168	0.04	Q V	|	|	|	|
6+55	0.0170	0.04	Q V	|	|	|	|
7+ 0	0.0173	0.04	Q V	|	|	|	|
7+ 5	0.0175	0.04	Q V	|	|	|	|
7+10	0.0178	0.04	Q V	|	|	|	|
7+15	0.0181	0.04	Q V	|	|	|	|
7+20	0.0183	0.04	Q V	|	|	|	|
7+25	0.0186	0.04	Q V	|	|	|	|
7+30	0.0188	0.04	Q V	|	|	|	|
7+35	0.0191	0.04	Q V	|	|	|	|
7+40	0.0194	0.04	Q V	|	|	|	|
7+45	0.0196	0.04	Q V	|	|	|	|
7+50	0.0199	0.04	Q V	|	|	|	|
7+55	0.0202	0.04	Q V	|	|	|	|
8+ 0	0.0205	0.04	Q V	|	|	|	|
8+ 5	0.0207	0.04	Q V	|	|	|	|
8+10	0.0210	0.04	Q V	|	|	|	|
8+15	0.0213	0.04	Q V	|	|	|	|
8+20	0.0216	0.04	Q V	|	|	|	|
8+25	0.0219	0.04	Q V	|	|	|	|
8+30	0.0221	0.04	Q V	|	|	|	|
8+35	0.0224	0.04	Q V	|	|	|	|
8+40	0.0227	0.04	Q V	|	|	|	|
8+45	0.0230	0.04	Q V	|	|	|	|
8+50	0.0233	0.04	Q V	|	|	|	|
8+55	0.0236	0.04	Q V	|	|	|	|
9+ 0	0.0239	0.04	Q V	|	|	|	|
9+ 5	0.0242	0.04	Q V	|	|	|	|
9+10	0.0245	0.04	Q V	|	|	|	|
9+15	0.0248	0.04	Q V	|	|	|	|
9+20	0.0251	0.04	Q V	|	|	|	|
9+25	0.0254	0.04	Q V	|	|	|	|
9+30	0.0257	0.04	Q V	|	|	|	|
9+35	0.0260	0.05	Q V	|	|	|	|
9+40	0.0263	0.05	Q V	|	|	|	|
9+45	0.0266	0.05	Q V	|	|	|	|
9+50	0.0270	0.05	Q V	|	|	|	|
9+55	0.0273	0.05	Q V	|	|	|	|
10+ 0	0.0276	0.05	Q V	|	|	|	|
10+ 5	0.0279	0.05	Q V	|	|	|	|
10+10	0.0283	0.05	Q V	|	|	|	|
10+15	0.0286	0.05	Q V	|	|	|	|
10+20	0.0289	0.05	Q V	|	|	|	|

10+25	0.0293	0.05	Q	V	|	|	|	|
10+30	0.0296	0.05	Q	V	|	|	|	|
10+35	0.0299	0.05	Q	V	|	|	|	|
10+40	0.0303	0.05	Q	V	|	|	|	|
10+45	0.0306	0.05	Q	V	|	|	|	|
10+50	0.0310	0.05	Q	V	|	|	|	|
10+55	0.0313	0.05	Q	V	|	|	|	|
11+ 0	0.0317	0.05	Q	V	|	|	|	|
11+ 5	0.0321	0.05	Q	V	|	|	|	|
11+10	0.0324	0.05	Q	V	|	|	|	|
11+15	0.0328	0.05	Q	V	|	|	|	|
11+20	0.0332	0.05	Q	V	|	|	|	|
11+25	0.0335	0.05	Q	V	|	|	|	|
11+30	0.0339	0.06	Q	V	|	|	|	|
11+35	0.0343	0.06	Q	V	|	|	|	|
11+40	0.0347	0.06	Q	V	|	|	|	|
11+45	0.0351	0.06	Q	V	|	|	|	|
11+50	0.0355	0.06	Q	V	|	|	|	|
11+55	0.0359	0.06	Q	V	|	|	|	|
12+ 0	0.0363	0.06	Q	V	|	|	|	|
12+ 5	0.0367	0.06	Q	V	|	|	|	|
12+10	0.0371	0.07	Q	V	|	|	|	|
12+15	0.0376	0.07	Q	V	|	|	|	|
12+20	0.0382	0.08	Q	V	|	|	|	|
12+25	0.0387	0.08	Q	V	|	|	|	|
12+30	0.0393	0.08	Q	V	|	|	|	|
12+35	0.0399	0.08	Q	V	|	|	|	|
12+40	0.0405	0.09	Q	V	|	|	|	|
12+45	0.0411	0.09	Q	V	|	|	|	|
12+50	0.0417	0.09	Q	V	|	|	|	|
12+55	0.0423	0.09	Q	V	|	|	|	|
13+ 0	0.0429	0.09	Q	V	|	|	|	|
13+ 5	0.0436	0.09	Q	V	|	|	|	|
13+10	0.0442	0.09	Q	V	|	|	|	|
13+15	0.0449	0.10	Q	V	|	|	|	|
13+20	0.0455	0.10	Q	V	|	|	|	|
13+25	0.0462	0.10	Q	V	|	|	|	|
13+30	0.0469	0.10	Q	V	|	|	|	|
13+35	0.0476	0.10	Q	V	|	|	|	|
13+40	0.0483	0.10	Q	V	|	|	|	|
13+45	0.0490	0.10	Q	V	|	|	|	|
13+50	0.0497	0.11	Q	V	|	|	|	|
13+55	0.0505	0.11	Q	V	|	|	|	|
14+ 0	0.0512	0.11	Q	V	|	|	|	|
14+ 5	0.0520	0.11	Q	V	|	|	|	|
14+10	0.0527	0.11	Q	V	|	|	|	|
14+15	0.0535	0.11	Q	V	|	|	|	|
14+20	0.0543	0.12	Q	V	|	|	|	|
14+25	0.0551	0.12	Q	V	|	|	|	|
14+30	0.0560	0.12	Q	V	|	|	|	|
14+35	0.0568	0.12	Q	V	|	|	|	|
14+40	0.0577	0.13	Q	V	|	|	|	|
14+45	0.0586	0.13	Q	V	|	|	|	|
14+50	0.0595	0.13	Q	V	|	|	|	|
14+55	0.0605	0.14	Q	V	|	|	|	|
15+ 0	0.0614	0.14	Q	V	|	|	|	|
15+ 5	0.0624	0.14	Q	V	|	|	|	|
15+10	0.0635	0.15	Q	V	|	|	|	|
15+15	0.0645	0.15	Q	V	|	|	|	|
15+20	0.0656	0.16	Q	V	|	|	|	|
15+25	0.0668	0.17	Q	V	|	|	|	|

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15+30       0.0679      0.16  Q         |   V     |         |         |
15+35       0.0690      0.16  Q         |    V    |         |         |
15+40       0.0701      0.16  Q         |    V    |         |         |
15+45       0.0713      0.17  Q         |    V    |         |         |
15+50       0.0726      0.19  Q         |    V    |         |         |
15+55       0.0740      0.21  Q         |     V   |         |         |
16+ 0       0.0759      0.27  |Q        |     V   |         |         |
16+ 5       0.0808      0.72  | Q       |      V  |         |         |
16+10       0.0935      1.84  |      Q  |         V         |         |
16+15       0.1108      2.51  |         Q         |   V     |         |
16+20       0.1229      1.75  |      Q  |         |     V   |         |
16+25       0.1296      0.97  |  Q      |         |       V |         |
16+30       0.1342      0.67  | Q       |         |        V|         |
16+35       0.1378      0.53  | Q       |         |         V         |
16+40       0.1409      0.44  |Q        |         |         V         |
16+45       0.1435      0.38  |Q        |         |         |V        |
16+50       0.1458      0.33  |Q        |         |         |V        |
16+55       0.1477      0.28  |Q        |         |         | V       |
17+ 0       0.1495      0.25  |Q        |         |         | V       |
17+ 5       0.1511      0.24  Q         |         |         | V       |
17+10       0.1526      0.21  Q         |         |         |  V      |
17+15       0.1539      0.19  Q         |         |         |  V      |
17+20       0.1551      0.18  Q         |         |         |  V      |
17+25       0.1563      0.16  Q         |         |         |   V     |
17+30       0.1573      0.15  Q         |         |         |   V     |
17+35       0.1583      0.14  Q         |         |         |   V     |
17+40       0.1593      0.14  Q         |         |         |   V     |
17+45       0.1601      0.12  Q         |         |         |   V     |
17+50       0.1608      0.10  Q         |         |         |    V    |
17+55       0.1615      0.10  Q         |         |         |    V    |
18+ 0       0.1622      0.10  Q         |         |         |    V    |
18+ 5       0.1628      0.09  Q         |         |         |    V    |
18+10       0.1634      0.09  Q         |         |         |    V    |
18+15       0.1639      0.08  Q         |         |         |    V    |
18+20       0.1644      0.07  Q         |         |         |    V    |
18+25       0.1649      0.07  Q         |         |         |    V    |
18+30       0.1653      0.07  Q         |         |         |     V   |
18+35       0.1658      0.06  Q         |         |         |     V   |
18+40       0.1662      0.06  Q         |         |         |     V   |
18+45       0.1666      0.06  Q         |         |         |     V   |
18+50       0.1670      0.06  Q         |         |         |     V   |
18+55       0.1674      0.06  Q         |         |         |     V   |
19+ 0       0.1678      0.05  Q         |         |         |     V   |
19+ 5       0.1681      0.05  Q         |         |         |     V   |
19+10       0.1685      0.05  Q         |         |         |     V   |
19+15       0.1688      0.05  Q         |         |         |     V   |
19+20       0.1692      0.05  Q         |         |         |     V   |
19+25       0.1695      0.05  Q         |         |         |     V   |
19+30       0.1698      0.05  Q         |         |         |     V   |
19+35       0.1702      0.05  Q         |         |         |      V  |
19+40       0.1705      0.05  Q         |         |         |      V  |
19+45       0.1708      0.05  Q         |         |         |      V  |
19+50       0.1711      0.04  Q         |         |         |      V  |
19+55       0.1714      0.04  Q         |         |         |      V  |
20+ 0       0.1717      0.04  Q         |         |         |      V  |
20+ 5       0.1720      0.04  Q         |         |         |      V  |
20+10       0.1723      0.04  Q         |         |         |      V  |
20+15       0.1726      0.04  Q         |         |         |      V  |
20+20       0.1729      0.04  Q         |         |         |      V  |
20+25       0.1731      0.04  Q         |         |         |      V  |
20+30       0.1734      0.04  Q         |         |         |      V  |
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20+35	0.1737	0.04	Q	|	|	|	V |	
20+40	0.1740	0.04	Q	|	|	|	V |	
20+45	0.1742	0.04	Q	|	|	|	V |	
20+50	0.1745	0.04	Q	|	|	|	V |	
20+55	0.1748	0.04	Q	|	|	|	V |	
21+ 0	0.1750	0.04	Q	|	|	|	V |	
21+ 5	0.1753	0.04	Q	|	|	|	V |	
21+10	0.1755	0.04	Q	|	|	|	V |	
21+15	0.1758	0.04	Q	|	|	|	V |	
21+20	0.1760	0.04	Q	|	|	|	V |	
21+25	0.1763	0.04	Q	|	|	|	V |	
21+30	0.1765	0.04	Q	|	|	|	V |	
21+35	0.1768	0.03	Q	|	|	|	V |	
21+40	0.1770	0.03	Q	|	|	|	V |	
21+45	0.1772	0.03	Q	|	|	|	V |	
21+50	0.1775	0.03	Q	|	|	|	V |	
21+55	0.1777	0.03	Q	|	|	|	V |	
22+ 0	0.1779	0.03	Q	|	|	|	V |	
22+ 5	0.1781	0.03	Q	|	|	|	V |	
22+10	0.1784	0.03	Q	|	|	|	V |	
22+15	0.1786	0.03	Q	|	|	|	V |	
22+20	0.1788	0.03	Q	|	|	|	V |	
22+25	0.1790	0.03	Q	|	|	|	V|	
22+30	0.1793	0.03	Q	|	|	|	V|	
22+35	0.1795	0.03	Q	|	|	|	V|	
22+40	0.1797	0.03	Q	|	|	|	V|	
22+45	0.1799	0.03	Q	|	|	|	V|	
22+50	0.1801	0.03	Q	|	|	|	V|	
22+55	0.1803	0.03	Q	|	|	|	V|	
23+ 0	0.1805	0.03	Q	|	|	|	V|	
23+ 5	0.1807	0.03	Q	|	|	|	V|	
23+10	0.1809	0.03	Q	|	|	|	V|	
23+15	0.1811	0.03	Q	|	|	|	V|	
23+20	0.1813	0.03	Q	|	|	|	V|	
23+25	0.1815	0.03	Q	|	|	|	V|	
23+30	0.1817	0.03	Q	|	|	|	V|	
23+35	0.1819	0.03	Q	|	|	|	V|	
23+40	0.1821	0.03	Q	|	|	|	V|	
23+45	0.1823	0.03	Q	|	|	|	V|	
23+50	0.1825	0.03	Q	|	|	|	V|	
23+55	0.1827	0.03	Q	|	|	|	V|	
24+ 0	0.1829	0.03	Q	|	|	|	V|	
24+ 5	0.1831	0.03	Q	|	|	|	V|	
24+10	0.1832	0.02	Q	|	|	|	V|	
24+15	0.1833	0.01	Q	|	|	|	V|	
24+20	0.1834	0.01	Q	|	|	|	V|	
24+25	0.1834	0.01	Q	|	|	|	V|	
24+30	0.1835	0.01	Q	|	|	|	V|	
24+35	0.1835	0.00	Q	|	|	|	V|	
24+40	0.1835	0.00	Q	|	|	|	V|	
24+45	0.1835	0.00	Q	|	|	|	V|	
24+50	0.1836	0.00	Q	|	|	|	V|	**MAXIMUM VOLUME**
24+55	0.1836	0.00	Q	|	|	|	V|	
25+ 0	0.1836	0.00	Q	|	|	|	V|	
25+ 5	0.1836	0.00	Q	|	|	|	V|	
25+10	0.1836	0.00	Q	|	|	|	V|	
25+15	0.1836	0.00	Q	|	|	|	V|	
25+20	0.1836	0.00	Q	|	|	|	V|	
25+25	0.1836	0.00	Q	|	|	|	V|	
25+30	0.1836	0.00	Q	|	|	|	V|	
25+35	0.1836	0.00	Q	|	|	|	V|	

```
   25+40       0.1836      0.00  Q         |         |         |         V
-------------------------------------------------------------------------
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U n i t H y d r o g r a p h A n a l y s i s

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Study date 01/31/25

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6103

UNIT HYDROGRAPH METHOD
2-YEAR POST DEVELOPMENT
4200001UHPROP02
FUSCOE ENGINEERING

Storm Event Year = 2

Antecedent Moisture Condition = 1

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 2		
4.12	1	0.59
Rainfall data for year 2		
4.12	6	1.55
Rainfall data for year 2		
4.12	24	2.68

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 1)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
75.0	57.0	4.12	1.000	0.721	0.070	0.050

Area-averaged adjusted loss rate Fm (In/Hr) = 0.050

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC1)	S	Pervious Yield Fr
0.29	0.070	75.0	57.0	7.54	0.059
3.83	0.930	98.0	98.0	0.20	0.914

Area-averaged catchment yield fraction, Y = 0.854
Area-averaged low loss fraction, Yb = 0.146
User entry of time of concentration = 0.134 (hours)
++
Watershed area = 4.12(Ac.)
Catchment Lag time = 0.107 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 77.7363
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.050(In/Hr)
Average low loss rate fraction (Yb) = 0.146 (decimal)
VALLEY DEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.217(In)
Computed peak 30-minute rainfall = 0.444(In)
Specified peak 1-hour rainfall = 0.586(In)
Computed peak 3-hour rainfall = 1.064(In)
Specified peak 6-hour rainfall = 1.550(In)
Specified peak 24-hour rainfall = 2.680(In)

Rainfall depth area reduction factors:
Using a total area of 4.12(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.217(In)
30-minute factor = 1.000 Adjusted rainfall = 0.444(In)
1-hour factor = 1.000 Adjusted rainfall = 0.586(In)
3-hour factor = 1.000 Adjusted rainfall = 1.064(In)
6-hour factor = 1.000 Adjusted rainfall = 1.550(In)
24-hour factor = 1.000 Adjusted rainfall = 2.680(In)

U n i t H y d r o g r a p h
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Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
	(K = 49.83 (CFS))	
1	10.711	5.337
2	61.546	25.329
3	93.159	15.752
4	98.688	2.755
5	100.000	0.654

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.2168	0.2168
2	0.2861	0.0693
3	0.3365	0.0504
4	0.3775	0.0410
5	0.4128	0.0352
6	0.4440	0.0312
7	0.4723	0.0282
8	0.4982	0.0259
9	0.5222	0.0240

10	0.5447	0.0225
11	0.5658	0.0212
12	0.5859	0.0200
13	0.6119	0.0260
14	0.6370	0.0251
15	0.6614	0.0243
16	0.6849	0.0236
17	0.7079	0.0229
18	0.7302	0.0223
19	0.7519	0.0218
20	0.7732	0.0212
21	0.7939	0.0208
22	0.8143	0.0203
23	0.8341	0.0199
24	0.8536	0.0195
25	0.8728	0.0191
26	0.8916	0.0188
27	0.9100	0.0185
28	0.9282	0.0182
29	0.9460	0.0179
30	0.9636	0.0176
31	0.9809	0.0173
32	0.9980	0.0171
33	1.0148	0.0168
34	1.0314	0.0166
35	1.0478	0.0164
36	1.0639	0.0162
37	1.0798	0.0159
38	1.0956	0.0157
39	1.1112	0.0156
40	1.1265	0.0154
41	1.1417	0.0152
42	1.1568	0.0150
43	1.1716	0.0149
44	1.1864	0.0147
45	1.2009	0.0146
46	1.2153	0.0144
47	1.2296	0.0143
48	1.2437	0.0141
49	1.2577	0.0140
50	1.2716	0.0139
51	1.2854	0.0137
52	1.2990	0.0136
53	1.3125	0.0135
54	1.3259	0.0134
55	1.3391	0.0133
56	1.3523	0.0132
57	1.3654	0.0131
58	1.3783	0.0130
59	1.3912	0.0129
60	1.4039	0.0128
61	1.4166	0.0127
62	1.4291	0.0126
63	1.4416	0.0125
64	1.4540	0.0124
65	1.4663	0.0123
66	1.4785	0.0122
67	1.4906	0.0121
68	1.5026	0.0120
69	1.5146	0.0120
70	1.5265	0.0119

71	1.5383	0.0118
72	1.5500	0.0117
73	1.5584	0.0085
74	1.5668	0.0084
75	1.5752	0.0083
76	1.5834	0.0083
77	1.5916	0.0082
78	1.5998	0.0081
79	1.6078	0.0081
80	1.6158	0.0080
81	1.6238	0.0079
82	1.6317	0.0079
83	1.6395	0.0078
84	1.6473	0.0078
85	1.6550	0.0077
86	1.6627	0.0077
87	1.6703	0.0076
88	1.6778	0.0076
89	1.6853	0.0075
90	1.6928	0.0075
91	1.7002	0.0074
92	1.7076	0.0074
93	1.7149	0.0073
94	1.7221	0.0073
95	1.7293	0.0072
96	1.7365	0.0072
97	1.7436	0.0071
98	1.7507	0.0071
99	1.7577	0.0070
100	1.7647	0.0070
101	1.7717	0.0069
102	1.7786	0.0069
103	1.7855	0.0069
104	1.7923	0.0068
105	1.7991	0.0068
106	1.8058	0.0067
107	1.8125	0.0067
108	1.8192	0.0067
109	1.8258	0.0066
110	1.8324	0.0066
111	1.8390	0.0066
112	1.8455	0.0065
113	1.8520	0.0065
114	1.8585	0.0065
115	1.8649	0.0064
116	1.8713	0.0064
117	1.8776	0.0064
118	1.8840	0.0063
119	1.8902	0.0063
120	1.8965	0.0063
121	1.9027	0.0062
122	1.9089	0.0062
123	1.9151	0.0062
124	1.9212	0.0061
125	1.9273	0.0061
126	1.9334	0.0061
127	1.9395	0.0060
128	1.9455	0.0060
129	1.9515	0.0060
130	1.9574	0.0060
131	1.9634	0.0059

132	1.9693	0.0059
133	1.9751	0.0059
134	1.9810	0.0059
135	1.9868	0.0058
136	1.9926	0.0058
137	1.9984	0.0058
138	2.0041	0.0057
139	2.0099	0.0057
140	2.0156	0.0057
141	2.0212	0.0057
142	2.0269	0.0057
143	2.0325	0.0056
144	2.0381	0.0056
145	2.0437	0.0056
146	2.0493	0.0056
147	2.0548	0.0055
148	2.0603	0.0055
149	2.0658	0.0055
150	2.0712	0.0055
151	2.0767	0.0054
152	2.0821	0.0054
153	2.0875	0.0054
154	2.0929	0.0054
155	2.0982	0.0054
156	2.1036	0.0053
157	2.1089	0.0053
158	2.1142	0.0053
159	2.1195	0.0053
160	2.1247	0.0053
161	2.1300	0.0052
162	2.1352	0.0052
163	2.1404	0.0052
164	2.1456	0.0052
165	2.1507	0.0052
166	2.1558	0.0051
167	2.1610	0.0051
168	2.1661	0.0051
169	2.1712	0.0051
170	2.1762	0.0051
171	2.1813	0.0050
172	2.1863	0.0050
173	2.1913	0.0050
174	2.1963	0.0050
175	2.2013	0.0050
176	2.2062	0.0050
177	2.2112	0.0049
178	2.2161	0.0049
179	2.2210	0.0049
180	2.2259	0.0049
181	2.2308	0.0049
182	2.2356	0.0049
183	2.2405	0.0048
184	2.2453	0.0048
185	2.2501	0.0048
186	2.2549	0.0048
187	2.2597	0.0048
188	2.2645	0.0048
189	2.2692	0.0048
190	2.2740	0.0047
191	2.2787	0.0047
192	2.2834	0.0047

193	2.2881	0.0047
194	2.2927	0.0047
195	2.2974	0.0047
196	2.3021	0.0046
197	2.3067	0.0046
198	2.3113	0.0046
199	2.3159	0.0046
200	2.3205	0.0046
201	2.3251	0.0046
202	2.3296	0.0046
203	2.3342	0.0045
204	2.3387	0.0045
205	2.3432	0.0045
206	2.3477	0.0045
207	2.3522	0.0045
208	2.3567	0.0045
209	2.3612	0.0045
210	2.3657	0.0045
211	2.3701	0.0044
212	2.3745	0.0044
213	2.3789	0.0044
214	2.3833	0.0044
215	2.3877	0.0044
216	2.3921	0.0044
217	2.3965	0.0044
218	2.4008	0.0044
219	2.4052	0.0043
220	2.4095	0.0043
221	2.4138	0.0043
222	2.4182	0.0043
223	2.4224	0.0043
224	2.4267	0.0043
225	2.4310	0.0043
226	2.4353	0.0043
227	2.4395	0.0043
228	2.4438	0.0042
229	2.4480	0.0042
230	2.4522	0.0042
231	2.4564	0.0042
232	2.4606	0.0042
233	2.4648	0.0042
234	2.4690	0.0042
235	2.4731	0.0042
236	2.4773	0.0042
237	2.4814	0.0041
238	2.4855	0.0041
239	2.4897	0.0041
240	2.4938	0.0041
241	2.4979	0.0041
242	2.5020	0.0041
243	2.5060	0.0041
244	2.5101	0.0041
245	2.5142	0.0041
246	2.5182	0.0040
247	2.5223	0.0040
248	2.5263	0.0040
249	2.5303	0.0040
250	2.5343	0.0040
251	2.5383	0.0040
252	2.5423	0.0040
253	2.5463	0.0040

254	2.5502	0.0040
255	2.5542	0.0040
256	2.5582	0.0040
257	2.5621	0.0039
258	2.5660	0.0039
259	2.5700	0.0039
260	2.5739	0.0039
261	2.5778	0.0039
262	2.5817	0.0039
263	2.5856	0.0039
264	2.5894	0.0039
265	2.5933	0.0039
266	2.5972	0.0039
267	2.6010	0.0039
268	2.6049	0.0038
269	2.6087	0.0038
270	2.6125	0.0038
271	2.6163	0.0038
272	2.6202	0.0038
273	2.6240	0.0038
274	2.6278	0.0038
275	2.6315	0.0038
276	2.6353	0.0038
277	2.6391	0.0038
278	2.6428	0.0038
279	2.6466	0.0038
280	2.6503	0.0037
281	2.6541	0.0037
282	2.6578	0.0037
283	2.6615	0.0037
284	2.6652	0.0037
285	2.6689	0.0037
286	2.6726	0.0037
287	2.6763	0.0037
288	2.6800	0.0037

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0037	0.0005	0.0031
2	0.0037	0.0005	0.0031
3	0.0037	0.0005	0.0032
4	0.0037	0.0005	0.0032
5	0.0037	0.0005	0.0032
6	0.0037	0.0005	0.0032
7	0.0038	0.0005	0.0032
8	0.0038	0.0005	0.0032
9	0.0038	0.0006	0.0032
10	0.0038	0.0006	0.0032
11	0.0038	0.0006	0.0032
12	0.0038	0.0006	0.0033
13	0.0038	0.0006	0.0033
14	0.0038	0.0006	0.0033
15	0.0039	0.0006	0.0033
16	0.0039	0.0006	0.0033
17	0.0039	0.0006	0.0033
18	0.0039	0.0006	0.0033
19	0.0039	0.0006	0.0033
20	0.0039	0.0006	0.0033
21	0.0039	0.0006	0.0034

22	0.0039	0.0006	0.0034
23	0.0040	0.0006	0.0034
24	0.0040	0.0006	0.0034
25	0.0040	0.0006	0.0034
26	0.0040	0.0006	0.0034
27	0.0040	0.0006	0.0034
28	0.0040	0.0006	0.0034
29	0.0040	0.0006	0.0035
30	0.0041	0.0006	0.0035
31	0.0041	0.0006	0.0035
32	0.0041	0.0006	0.0035
33	0.0041	0.0006	0.0035
34	0.0041	0.0006	0.0035
35	0.0041	0.0006	0.0035
36	0.0042	0.0006	0.0035
37	0.0042	0.0006	0.0036
38	0.0042	0.0006	0.0036
39	0.0042	0.0006	0.0036
40	0.0042	0.0006	0.0036
41	0.0042	0.0006	0.0036
42	0.0043	0.0006	0.0036
43	0.0043	0.0006	0.0037
44	0.0043	0.0006	0.0037
45	0.0043	0.0006	0.0037
46	0.0043	0.0006	0.0037
47	0.0043	0.0006	0.0037
48	0.0044	0.0006	0.0037
49	0.0044	0.0006	0.0037
50	0.0044	0.0006	0.0038
51	0.0044	0.0006	0.0038
52	0.0044	0.0006	0.0038
53	0.0045	0.0006	0.0038
54	0.0045	0.0007	0.0038
55	0.0045	0.0007	0.0038
56	0.0045	0.0007	0.0039
57	0.0045	0.0007	0.0039
58	0.0045	0.0007	0.0039
59	0.0046	0.0007	0.0039
60	0.0046	0.0007	0.0039
61	0.0046	0.0007	0.0039
62	0.0046	0.0007	0.0040
63	0.0047	0.0007	0.0040
64	0.0047	0.0007	0.0040
65	0.0047	0.0007	0.0040
66	0.0047	0.0007	0.0040
67	0.0048	0.0007	0.0041
68	0.0048	0.0007	0.0041
69	0.0048	0.0007	0.0041
70	0.0048	0.0007	0.0041
71	0.0048	0.0007	0.0041
72	0.0049	0.0007	0.0042
73	0.0049	0.0007	0.0042
74	0.0049	0.0007	0.0042
75	0.0049	0.0007	0.0042
76	0.0050	0.0007	0.0042
77	0.0050	0.0007	0.0043
78	0.0050	0.0007	0.0043
79	0.0050	0.0007	0.0043
80	0.0051	0.0007	0.0043
81	0.0051	0.0007	0.0044
82	0.0051	0.0007	0.0044

83	0.0052	0.0008	0.0044
84	0.0052	0.0008	0.0044
85	0.0052	0.0008	0.0045
86	0.0052	0.0008	0.0045
87	0.0053	0.0008	0.0045
88	0.0053	0.0008	0.0045
89	0.0053	0.0008	0.0046
90	0.0054	0.0008	0.0046
91	0.0054	0.0008	0.0046
92	0.0054	0.0008	0.0046
93	0.0055	0.0008	0.0047
94	0.0055	0.0008	0.0047
95	0.0055	0.0008	0.0047
96	0.0056	0.0008	0.0047
97	0.0056	0.0008	0.0048
98	0.0056	0.0008	0.0048
99	0.0057	0.0008	0.0048
100	0.0057	0.0008	0.0049
101	0.0057	0.0008	0.0049
102	0.0058	0.0008	0.0049
103	0.0058	0.0008	0.0050
104	0.0059	0.0009	0.0050
105	0.0059	0.0009	0.0050
106	0.0059	0.0009	0.0051
107	0.0060	0.0009	0.0051
108	0.0060	0.0009	0.0051
109	0.0061	0.0009	0.0052
110	0.0061	0.0009	0.0052
111	0.0062	0.0009	0.0053
112	0.0062	0.0009	0.0053
113	0.0063	0.0009	0.0053
114	0.0063	0.0009	0.0054
115	0.0064	0.0009	0.0054
116	0.0064	0.0009	0.0055
117	0.0065	0.0009	0.0055
118	0.0065	0.0009	0.0055
119	0.0066	0.0010	0.0056
120	0.0066	0.0010	0.0056
121	0.0067	0.0010	0.0057
122	0.0067	0.0010	0.0057
123	0.0068	0.0010	0.0058
124	0.0068	0.0010	0.0058
125	0.0069	0.0010	0.0059
126	0.0069	0.0010	0.0059
127	0.0070	0.0010	0.0060
128	0.0071	0.0010	0.0060
129	0.0072	0.0010	0.0061
130	0.0072	0.0011	0.0062
131	0.0073	0.0011	0.0062
132	0.0074	0.0011	0.0063
133	0.0075	0.0011	0.0064
134	0.0075	0.0011	0.0064
135	0.0076	0.0011	0.0065
136	0.0077	0.0011	0.0065
137	0.0078	0.0011	0.0066
138	0.0078	0.0011	0.0067
139	0.0079	0.0012	0.0068
140	0.0080	0.0012	0.0068
141	0.0081	0.0012	0.0069
142	0.0082	0.0012	0.0070
143	0.0083	0.0012	0.0071

144	0.0084	0.0012	0.0072
145	0.0117	0.0017	0.0100
146	0.0118	0.0017	0.0101
147	0.0120	0.0017	0.0102
148	0.0120	0.0018	0.0103
149	0.0122	0.0018	0.0104
150	0.0123	0.0018	0.0105
151	0.0125	0.0018	0.0107
152	0.0126	0.0018	0.0107
153	0.0128	0.0019	0.0109
154	0.0129	0.0019	0.0110
155	0.0131	0.0019	0.0112
156	0.0132	0.0019	0.0112
157	0.0134	0.0020	0.0114
158	0.0135	0.0020	0.0115
159	0.0137	0.0020	0.0117
160	0.0139	0.0020	0.0118
161	0.0141	0.0021	0.0121
162	0.0143	0.0021	0.0122
163	0.0146	0.0021	0.0124
164	0.0147	0.0021	0.0126
165	0.0150	0.0022	0.0128
166	0.0152	0.0022	0.0130
167	0.0156	0.0023	0.0133
168	0.0157	0.0023	0.0135
169	0.0162	0.0024	0.0138
170	0.0164	0.0024	0.0140
171	0.0168	0.0025	0.0144
172	0.0171	0.0025	0.0146
173	0.0176	0.0026	0.0150
174	0.0179	0.0026	0.0153
175	0.0185	0.0027	0.0158
176	0.0188	0.0027	0.0160
177	0.0195	0.0028	0.0167
178	0.0199	0.0029	0.0170
179	0.0208	0.0030	0.0177
180	0.0212	0.0031	0.0181
181	0.0223	0.0033	0.0191
182	0.0229	0.0033	0.0196
183	0.0243	0.0035	0.0208
184	0.0251	0.0037	0.0215
185	0.0200	0.0029	0.0171
186	0.0212	0.0031	0.0181
187	0.0240	0.0035	0.0205
188	0.0259	0.0038	0.0221
189	0.0312	0.0042	0.0270
190	0.0352	0.0042	0.0310
191	0.0504	0.0042	0.0462
192	0.0693	0.0042	0.0651
193	0.2168	0.0042	0.2126
194	0.0410	0.0042	0.0368
195	0.0282	0.0041	0.0241
196	0.0225	0.0033	0.0192
197	0.0260	0.0038	0.0222
198	0.0236	0.0034	0.0201
199	0.0218	0.0032	0.0186
200	0.0203	0.0030	0.0174
201	0.0191	0.0028	0.0163
202	0.0182	0.0026	0.0155
203	0.0173	0.0025	0.0148
204	0.0166	0.0024	0.0142

205	0.0159	0.0023	0.0136
206	0.0154	0.0022	0.0131
207	0.0149	0.0022	0.0127
208	0.0144	0.0021	0.0123
209	0.0140	0.0020	0.0120
210	0.0136	0.0020	0.0116
211	0.0133	0.0019	0.0113
212	0.0130	0.0019	0.0111
213	0.0127	0.0018	0.0108
214	0.0124	0.0018	0.0106
215	0.0121	0.0018	0.0104
216	0.0119	0.0017	0.0101
217	0.0085	0.0012	0.0072
218	0.0083	0.0012	0.0071
219	0.0081	0.0012	0.0069
220	0.0079	0.0012	0.0067
221	0.0077	0.0011	0.0066
222	0.0076	0.0011	0.0065
223	0.0074	0.0011	0.0063
224	0.0073	0.0011	0.0062
225	0.0071	0.0010	0.0061
226	0.0070	0.0010	0.0060
227	0.0069	0.0010	0.0059
228	0.0067	0.0010	0.0058
229	0.0066	0.0010	0.0057
230	0.0065	0.0010	0.0056
231	0.0064	0.0009	0.0055
232	0.0063	0.0009	0.0054
233	0.0062	0.0009	0.0053
234	0.0061	0.0009	0.0052
235	0.0060	0.0009	0.0052
236	0.0060	0.0009	0.0051
237	0.0059	0.0009	0.0050
238	0.0058	0.0008	0.0050
239	0.0057	0.0008	0.0049
240	0.0057	0.0008	0.0048
241	0.0056	0.0008	0.0048
242	0.0055	0.0008	0.0047
243	0.0054	0.0008	0.0046
244	0.0054	0.0008	0.0046
245	0.0053	0.0008	0.0045
246	0.0053	0.0008	0.0045
247	0.0052	0.0008	0.0044
248	0.0051	0.0007	0.0044
249	0.0051	0.0007	0.0043
250	0.0050	0.0007	0.0043
251	0.0050	0.0007	0.0043
252	0.0049	0.0007	0.0042
253	0.0049	0.0007	0.0042
254	0.0048	0.0007	0.0041
255	0.0048	0.0007	0.0041
256	0.0047	0.0007	0.0040
257	0.0047	0.0007	0.0040
258	0.0046	0.0007	0.0040
259	0.0046	0.0007	0.0039
260	0.0046	0.0007	0.0039
261	0.0045	0.0007	0.0039
262	0.0045	0.0007	0.0038
263	0.0044	0.0006	0.0038
264	0.0044	0.0006	0.0038
265	0.0044	0.0006	0.0037

266	0.0043	0.0006	0.0037
267	0.0043	0.0006	0.0037
268	0.0043	0.0006	0.0036
269	0.0042	0.0006	0.0036
270	0.0042	0.0006	0.0036
271	0.0042	0.0006	0.0036
272	0.0041	0.0006	0.0035
273	0.0041	0.0006	0.0035
274	0.0041	0.0006	0.0035
275	0.0040	0.0006	0.0034
276	0.0040	0.0006	0.0034
277	0.0040	0.0006	0.0034
278	0.0040	0.0006	0.0034
279	0.0039	0.0006	0.0034
280	0.0039	0.0006	0.0033
281	0.0039	0.0006	0.0033
282	0.0038	0.0006	0.0033
283	0.0038	0.0006	0.0033
284	0.0038	0.0006	0.0032
285	0.0038	0.0005	0.0032
286	0.0037	0.0005	0.0032
287	0.0037	0.0005	0.0032
288	0.0037	0.0005	0.0032

Total soil rain loss = 0.35(In)

Total effective rainfall = 2.33(In)

Peak flow rate in flood hydrograph = 6.76(CFS)

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24 - H O U R S T O R M

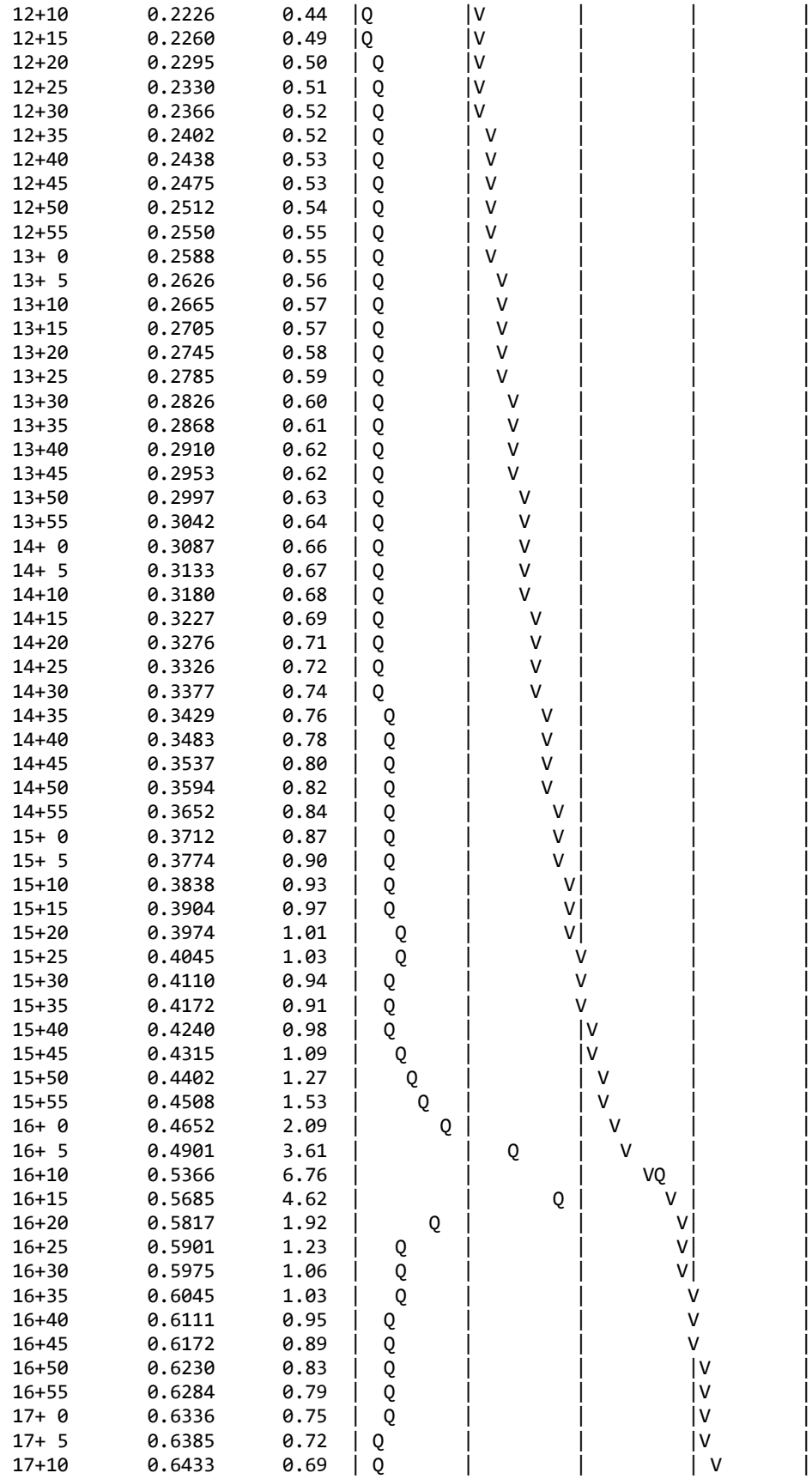
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.02	Q	|	|	|	|
0+10	0.0008	0.10	Q	|	|	|	|
0+15	0.0018	0.15	Q	|	|	|	|
0+20	0.0029	0.16	Q	|	|	|	|
0+25	0.0039	0.16	Q	|	|	|	|
0+30	0.0050	0.16	Q	|	|	|	|
0+35	0.0061	0.16	Q	|	|	|	|
0+40	0.0072	0.16	Q	|	|	|	|
0+45	0.0083	0.16	Q	|	|	|	|
0+50	0.0094	0.16	Q	|	|	|	|
0+55	0.0105	0.16	Q	|	|	|	|
1+ 0	0.0117	0.16	Q	|	|	|	|
1+ 5	0.0128	0.16	Q	|	|	|	|
1+10	0.0139	0.16	Q	|	|	|	|
1+15	0.0150	0.16	Q	|	|	|	|
1+20	0.0161	0.16	Q	|	|	|	|
1+25	0.0173	0.16	Q	|	|	|	|
1+30	0.0184	0.16	Q	|	|	|	|
1+35	0.0195	0.17	Q	|	|	|	|
1+40	0.0207	0.17	QV	|	|	|	|
1+45	0.0218	0.17	QV	|	|	|	|
1+50	0.0230	0.17	QV	|	|	|	|
1+55	0.0241	0.17	QV	|	|	|	|

2+ 0	0.0253	0.17	QV	|	|	|	|
2+ 5	0.0265	0.17	QV	|	|	|	|
2+10	0.0276	0.17	QV	|	|	|	|
2+15	0.0288	0.17	QV	|	|	|	|
2+20	0.0300	0.17	QV	|	|	|	|
2+25	0.0312	0.17	QV	|	|	|	|
2+30	0.0323	0.17	QV	|	|	|	|
2+35	0.0335	0.17	QV	|	|	|	|
2+40	0.0347	0.17	QV	|	|	|	|
2+45	0.0359	0.17	QV	|	|	|	|
2+50	0.0371	0.17	QV	|	|	|	|
2+55	0.0383	0.18	QV	|	|	|	|
3+ 0	0.0395	0.18	QV	|	|	|	|
3+ 5	0.0408	0.18	Q V	|	|	|	|
3+10	0.0420	0.18	Q V	|	|	|	|
3+15	0.0432	0.18	Q V	|	|	|	|
3+20	0.0444	0.18	Q V	|	|	|	|
3+25	0.0457	0.18	Q V	|	|	|	|
3+30	0.0469	0.18	Q V	|	|	|	|
3+35	0.0482	0.18	Q V	|	|	|	|
3+40	0.0494	0.18	Q V	|	|	|	|
3+45	0.0507	0.18	Q V	|	|	|	|
3+50	0.0519	0.18	Q V	|	|	|	|
3+55	0.0532	0.18	Q V	|	|	|	|
4+ 0	0.0545	0.18	Q V	|	|	|	|
4+ 5	0.0557	0.19	Q V	|	|	|	|
4+10	0.0570	0.19	Q V	|	|	|	|
4+15	0.0583	0.19	Q V	|	|	|	|
4+20	0.0596	0.19	Q V	|	|	|	|
4+25	0.0609	0.19	Q V	|	|	|	|
4+30	0.0622	0.19	Q V	|	|	|	|
4+35	0.0635	0.19	Q V	|	|	|	|
4+40	0.0648	0.19	Q V	|	|	|	|
4+45	0.0661	0.19	Q V	|	|	|	|
4+50	0.0675	0.19	Q V	|	|	|	|
4+55	0.0688	0.19	Q V	|	|	|	|
5+ 0	0.0701	0.19	Q V	|	|	|	|
5+ 5	0.0715	0.20	Q V	|	|	|	|
5+10	0.0728	0.20	Q V	|	|	|	|
5+15	0.0742	0.20	Q V	|	|	|	|
5+20	0.0755	0.20	Q V	|	|	|	|
5+25	0.0769	0.20	Q V	|	|	|	|
5+30	0.0783	0.20	Q V	|	|	|	|
5+35	0.0797	0.20	Q V	|	|	|	|
5+40	0.0811	0.20	Q V	|	|	|	|
5+45	0.0825	0.20	Q V	|	|	|	|
5+50	0.0839	0.20	Q V	|	|	|	|
5+55	0.0853	0.20	Q V	|	|	|	|
6+ 0	0.0867	0.21	Q V	|	|	|	|
6+ 5	0.0881	0.21	Q V	|	|	|	|
6+10	0.0895	0.21	Q V	|	|	|	|
6+15	0.0910	0.21	Q V	|	|	|	|
6+20	0.0924	0.21	Q V	|	|	|	|
6+25	0.0939	0.21	Q V	|	|	|	|
6+30	0.0953	0.21	Q V	|	|	|	|
6+35	0.0968	0.21	Q V	|	|	|	|
6+40	0.0983	0.21	Q V	|	|	|	|
6+45	0.0998	0.22	Q V	|	|	|	|
6+50	0.1013	0.22	Q V	|	|	|	|
6+55	0.1027	0.22	Q V	|	|	|	|
7+ 0	0.1043	0.22	Q V	|	|	|	|

```
 7+ 5       0.1058      0.22  Q    V    |         |         |         |
 7+10       0.1073      0.22  Q    V    |         |         |         |
 7+15       0.1088      0.22  Q    V    |         |         |         |
 7+20       0.1104      0.22  Q    V    |         |         |         |
 7+25       0.1119      0.23  Q    V    |         |         |         |
 7+30       0.1135      0.23  Q    V    |         |         |         |
 7+35       0.1151      0.23  Q    V    |         |         |         |
 7+40       0.1166      0.23  Q    V    |         |         |         |
 7+45       0.1182      0.23  Q    V    |         |         |         |
 7+50       0.1198      0.23  Q    V    |         |         |         |
 7+55       0.1214      0.23  Q     V   |         |         |         |
 8+ 0       0.1230      0.23  Q     V   |         |         |         |
 8+ 5       0.1247      0.24  Q     V   |         |         |         |
 8+10       0.1263      0.24  Q     V   |         |         |         |
 8+15       0.1279      0.24  Q     V   |         |         |         |
 8+20       0.1296      0.24  Q     V   |         |         |         |
 8+25       0.1313      0.24  Q     V   |         |         |         |
 8+30       0.1330      0.24  Q     V   |         |         |         |
 8+35       0.1346      0.25  Q     V   |         |         |         |
 8+40       0.1363      0.25  Q     V   |         |         |         |
 8+45       0.1381      0.25  Q     V   |         |         |         |
 8+50       0.1398      0.25  |Q    V   |         |         |         |
 8+55       0.1415      0.25  |Q     V  |         |         |         |
 9+ 0       0.1433      0.25  |Q     V  |         |         |         |
 9+ 5       0.1450      0.26  |Q     V  |         |         |         |
 9+10       0.1468      0.26  |Q     V  |         |         |         |
 9+15       0.1486      0.26  |Q     V  |         |         |         |
 9+20       0.1504      0.26  |Q     V  |         |         |         |
 9+25       0.1522      0.26  |Q     V  |         |         |         |
 9+30       0.1540      0.27  |Q     V  |         |         |         |
 9+35       0.1559      0.27  |Q     V  |         |         |         |
 9+40       0.1577      0.27  |Q     V  |         |         |         |
 9+45       0.1596      0.27  |Q     V  |         |         |         |
 9+50       0.1615      0.27  |Q      V |         |         |         |
 9+55       0.1634      0.28  |Q      V |         |         |         |
10+ 0       0.1653      0.28  |Q      V |         |         |         |
10+ 5       0.1672      0.28  |Q      V |         |         |         |
10+10       0.1692      0.28  |Q      V |         |         |         |
10+15       0.1711      0.29  |Q      V |         |         |         |
10+20       0.1731      0.29  |Q      V |         |         |         |
10+25       0.1751      0.29  |Q      V |         |         |         |
10+30       0.1771      0.29  |Q      V |         |         |         |
10+35       0.1792      0.30  |Q      V |         |         |         |
10+40       0.1812      0.30  |Q       V|         |         |         |
10+45       0.1833      0.30  |Q       V|         |         |         |
10+50       0.1854      0.30  |Q       V|         |         |         |
10+55       0.1875      0.31  |Q       V|         |         |         |
11+ 0       0.1896      0.31  |Q       V|         |         |         |
11+ 5       0.1918      0.31  |Q       V|         |         |         |
11+10       0.1940      0.32  |Q       V|         |         |         |
11+15       0.1961      0.32  |Q       V|         |         |         |
11+20       0.1984      0.32  |Q       V|         |         |         |
11+25       0.2006      0.33  |Q        V         |         |         |
11+30       0.2029      0.33  |Q        V         |         |         |
11+35       0.2052      0.33  |Q        V         |         |         |
11+40       0.2075      0.34  |Q        V         |         |         |
11+45       0.2098      0.34  |Q        V         |         |         |
11+50       0.2122      0.34  |Q        V         |         |         |
11+55       0.2146      0.35  |Q        V         |         |         |
12+ 0       0.2170      0.35  |Q        V         |         |         |
12+ 5       0.2196      0.37  |Q        V         |         |         |
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17+15	0.6479	0.66	Q			V
17+20	0.6523	0.64	Q			V
17+25	0.6566	0.62	Q			V
17+30	0.6607	0.60	Q			V
17+35	0.6647	0.59	Q			V
17+40	0.6687	0.57	Q			V
17+45	0.6725	0.56	Q			V
17+50	0.6762	0.54	Q			V
17+55	0.6799	0.53	Q			V
18+ 0	0.6835	0.52	Q			V
18+ 5	0.6869	0.49	Q			V
18+10	0.6898	0.42	Q			V
18+15	0.6923	0.36	Q			V
18+20	0.6947	0.35	Q			V
18+25	0.6970	0.34	Q			V
18+30	0.6993	0.33	Q			V
18+35	0.7015	0.32	Q			V
18+40	0.7037	0.32	Q			V
18+45	0.7058	0.31	Q			V
18+50	0.7079	0.31	Q			V
18+55	0.7100	0.30	Q			V
19+ 0	0.7120	0.29	Q			V
19+ 5	0.7140	0.29	Q			V
19+10	0.7160	0.28	Q			V
19+15	0.7179	0.28	Q			V
19+20	0.7198	0.27	Q			V
19+25	0.7217	0.27	Q			V
19+30	0.7235	0.27	Q			V
19+35	0.7253	0.26	Q			V
19+40	0.7271	0.26	Q			V
19+45	0.7288	0.26	Q			V
19+50	0.7306	0.25	Q			V
19+55	0.7323	0.25	Q			V
20+ 0	0.7340	0.24	Q			V
20+ 5	0.7356	0.24	Q			V
20+10	0.7373	0.24	Q			V
20+15	0.7389	0.24	Q			V
20+20	0.7405	0.23	Q			V
20+25	0.7421	0.23	Q			V
20+30	0.7437	0.23	Q			V
20+35	0.7452	0.22	Q			V
20+40	0.7467	0.22	Q			V
20+45	0.7482	0.22	Q			V
20+50	0.7497	0.22	Q			V
20+55	0.7512	0.21	Q			V
21+ 0	0.7527	0.21	Q			V
21+ 5	0.7541	0.21	Q			V
21+10	0.7556	0.21	Q			V
21+15	0.7570	0.21	Q			V
21+20	0.7584	0.20	Q			V
21+25	0.7598	0.20	Q			V
21+30	0.7612	0.20	Q			V
21+35	0.7625	0.20	Q			V
21+40	0.7639	0.20	Q			V
21+45	0.7652	0.19	Q			V
21+50	0.7666	0.19	Q			V
21+55	0.7679	0.19	Q			V
22+ 0	0.7692	0.19	Q			V
22+ 5	0.7705	0.19	Q			V
22+10	0.7718	0.19	Q			V
22+15	0.7730	0.18	Q			V

22+20	0.7743	0.18	Q	|	|	|	V |
22+25	0.7755	0.18	Q	|	|	|	V |
22+30	0.7768	0.18	Q	|	|	|	V |
22+35	0.7780	0.18	Q	|	|	|	V |
22+40	0.7792	0.18	Q	|	|	|	V|
22+45	0.7805	0.18	Q	|	|	|	V|
22+50	0.7817	0.17	Q	|	|	|	V|
22+55	0.7829	0.17	Q	|	|	|	V|
23+ 0	0.7841	0.17	Q	|	|	|	V|
23+ 5	0.7852	0.17	Q	|	|	|	V|
23+10	0.7864	0.17	Q	|	|	|	V|
23+15	0.7876	0.17	Q	|	|	|	V|
23+20	0.7887	0.17	Q	|	|	|	V|
23+25	0.7899	0.17	Q	|	|	|	V|
23+30	0.7910	0.17	Q	|	|	|	V|
23+35	0.7921	0.16	Q	|	|	|	V|
23+40	0.7932	0.16	Q	|	|	|	V|
23+45	0.7944	0.16	Q	|	|	|	V|
23+50	0.7955	0.16	Q	|	|	|	V|
23+55	0.7966	0.16	Q	|	|	|	V|
24+ 0	0.7977	0.16	Q	|	|	|	V|
24+ 5	0.7986	0.14	Q	|	|	|	V|
24+10	0.7990	0.06	Q	|	|	|	V|
24+15	0.7991	0.01	Q	|	|	|	V|
24+20	0.7991	0.00	Q	|	|	|	V

MAXIMUM VOLUME

DETENTION BASIN SIZING CALCULATION
(ROUTING CALCULATION)

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014
Study date: 01/31/25

RETARDING BASIN SIZING CALCULATION
HMOD PEAK FLOW MITIGATION
2-YEAR STORM EVENT
FUSCOE ENGINEERING

Program License Serial Number 6103

********** HYDROGRAPH INFORMATION **********

From study/file name: 4200001UHPROP02.rte
**********HYDROGRAPH DATA**********
Number of intervals = 292
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 6.755 (CFS)
Total volume = 0.799 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

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Process from Point/Station 1.010 to Point/Station 1.020
**** RETARDING BASIN ROUTING ****
_____

User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 292
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.050	0.076	1.750	0.070	0.082
2.050	0.148	2.750	0.139	0.157
3.050	0.225	3.480	0.213	0.237
4.050	0.300	4.080	0.286	0.314

5.050	0.373	4.600	0.357	0.389
5.300	0.393	4.720	0.377	0.409

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	1.7	3.38	5.07	6.76	Depth (Ft.)
0.083	0.02	0.00	0.000	O	|	|	|	|	0.00
0.167	0.10	0.01	0.000	O	|	|	|	|	0.01
0.250	0.15	0.03	0.001	O	|	|	|	|	0.02
0.333	0.16	0.04	0.002	O	|	|	|	|	0.03
0.417	0.16	0.06	0.003	O	|	|	|	|	0.04
0.500	0.16	0.07	0.003	O	|	|	|	|	0.04
0.583	0.16	0.09	0.004	O	|	|	|	|	0.05
0.667	0.16	0.10	0.004	O	|	|	|	|	0.06
0.750	0.16	0.11	0.005	O	|	|	|	|	0.06
0.833	0.16	0.11	0.005	O	|	|	|	|	0.07
0.917	0.16	0.12	0.005	O	|	|	|	|	0.07
1.000	0.16	0.13	0.006	O	|	|	|	|	0.08
1.083	0.16	0.13	0.006	O	|	|	|	|	0.08
1.167	0.16	0.14	0.006	O	|	|	|	|	0.08
1.250	0.16	0.14	0.006	O	|	|	|	|	0.08
1.333	0.16	0.14	0.006	O	|	|	|	|	0.09
1.417	0.16	0.15	0.006	O	|	|	|	|	0.09
1.500	0.16	0.15	0.006	O	|	|	|	|	0.09
1.583	0.17	0.15	0.007	O	|	|	|	|	0.09
1.667	0.17	0.15	0.007	O	|	|	|	|	0.09
1.750	0.17	0.16	0.007	O	|	|	|	|	0.09
1.833	0.17	0.16	0.007	O	|	|	|	|	0.09
1.917	0.17	0.16	0.007	O	|	|	|	|	0.10
2.000	0.17	0.16	0.007	O	|	|	|	|	0.10
2.083	0.17	0.16	0.007	O	|	|	|	|	0.10
2.167	0.17	0.16	0.007	O	|	|	|	|	0.10
2.250	0.17	0.16	0.007	O	|	|	|	|	0.10
2.333	0.17	0.16	0.007	O	|	|	|	|	0.10
2.417	0.17	0.17	0.007	O	|	|	|	|	0.10
2.500	0.17	0.17	0.007	O	|	|	|	|	0.10
2.583	0.17	0.17	0.007	O	|	|	|	|	0.10
2.667	0.17	0.17	0.007	O	|	|	|	|	0.10
2.750	0.17	0.17	0.007	O	|	|	|	|	0.10
2.833	0.17	0.17	0.007	O	|	|	|	|	0.10
2.917	0.18	0.17	0.007	O	|	|	|	|	0.10
3.000	0.18	0.17	0.007	O	|	|	|	|	0.10
3.083	0.18	0.17	0.007	O	|	|	|	|	0.10
3.167	0.18	0.17	0.007	O	|	|	|	|	0.10
3.250	0.18	0.17	0.008	O	|	|	|	|	0.10
3.333	0.18	0.17	0.008	O	|	|	|	|	0.10
3.417	0.18	0.17	0.008	O	|	|	|	|	0.10
3.500	0.18	0.18	0.008	O	|	|	|	|	0.11
3.583	0.18	0.18	0.008	O	|	|	|	|	0.11
3.667	0.18	0.18	0.008	O	|	|	|	|	0.11
3.750	0.18	0.18	0.008	O	|	|	|	|	0.11
3.833	0.18	0.18	0.008	O	|	|	|	|	0.11
3.917	0.18	0.18	0.008	O	|	|	|	|	0.11
4.000	0.18	0.18	0.008	O	|	|	|	|	0.11
4.083	0.19	0.18	0.008	O	|	|	|	|	0.11
4.167	0.19	0.18	0.008	O	|	|	|	|	0.11
4.250	0.19	0.18	0.008	O	|	|	|	|	0.11

4.333	0.19	0.18	0.008	O				0.11
4.417	0.19	0.18	0.008	O				0.11
4.500	0.19	0.18	0.008	O				0.11
4.583	0.19	0.19	0.008	O				0.11
4.667	0.19	0.19	0.008	O				0.11
4.750	0.19	0.19	0.008	O				0.11
4.833	0.19	0.19	0.008	O				0.11
4.917	0.19	0.19	0.008	O				0.11
5.000	0.19	0.19	0.008	O				0.11
5.083	0.20	0.19	0.008	O				0.11
5.167	0.20	0.19	0.008	O				0.11
5.250	0.20	0.19	0.008	O				0.11
5.333	0.20	0.19	0.008	O				0.12
5.417	0.20	0.19	0.008	O				0.12
5.500	0.20	0.19	0.008	O				0.12
5.583	0.20	0.20	0.008	O				0.12
5.667	0.20	0.20	0.009	O				0.12
5.750	0.20	0.20	0.009	O				0.12
5.833	0.20	0.20	0.009	O				0.12
5.917	0.20	0.20	0.009	O				0.12
6.000	0.21	0.20	0.009	O				0.12
6.083	0.21	0.20	0.009	O				0.12
6.167	0.21	0.20	0.009	O				0.12
6.250	0.21	0.20	0.009	O				0.12
6.333	0.21	0.20	0.009	O				0.12
6.417	0.21	0.20	0.009	O				0.12
6.500	0.21	0.21	0.009	OI				0.12
6.583	0.21	0.21	0.009	OI				0.12
6.667	0.21	0.21	0.009	OI				0.12
6.750	0.22	0.21	0.009	OI				0.13
6.833	0.22	0.21	0.009	OI				0.13
6.917	0.22	0.21	0.009	OI				0.13
7.000	0.22	0.21	0.009	|O				0.13
7.083	0.22	0.21	0.009	|O				0.13
7.167	0.22	0.21	0.009	|O				0.13
7.250	0.22	0.22	0.009	|O				0.13
7.333	0.22	0.22	0.009	|O				0.13
7.417	0.23	0.22	0.009	|O				0.13
7.500	0.23	0.22	0.010	|O				0.13
7.583	0.23	0.22	0.010	|O				0.13
7.667	0.23	0.22	0.010	|O				0.13
7.750	0.23	0.22	0.010	|O				0.13
7.833	0.23	0.22	0.010	|O				0.13
7.917	0.23	0.23	0.010	|O				0.14
8.000	0.23	0.23	0.010	|O				0.14
8.083	0.24	0.23	0.010	|O				0.14
8.167	0.24	0.23	0.010	|O				0.14
8.250	0.24	0.23	0.010	|O				0.14
8.333	0.24	0.23	0.010	|O				0.14
8.417	0.24	0.23	0.010	|O				0.14
8.500	0.24	0.23	0.010	|O				0.14
8.583	0.25	0.24	0.010	|O				0.14
8.667	0.25	0.24	0.010	|O				0.14
8.750	0.25	0.24	0.010	|O				0.14
8.833	0.25	0.24	0.010	|O				0.14
8.917	0.25	0.24	0.011	|O				0.15
9.000	0.25	0.24	0.011	|O				0.15
9.083	0.26	0.25	0.011	|O				0.15
9.167	0.26	0.25	0.011	|O				0.15
9.250	0.26	0.25	0.011	|O				0.15
9.333	0.26	0.25	0.011	|O				0.15

9.417	0.26	0.25	0.011	O				0.15
9.500	0.27	0.25	0.011	O				0.15
9.583	0.27	0.26	0.011	O				0.15
9.667	0.27	0.26	0.011	O				0.15
9.750	0.27	0.26	0.011	O				0.16
9.833	0.27	0.26	0.011	O				0.16
9.917	0.28	0.26	0.011	O				0.16
10.000	0.28	0.27	0.012	O				0.16
10.083	0.28	0.27	0.012	O				0.16
10.167	0.28	0.27	0.012	O				0.16
10.250	0.29	0.27	0.012	O				0.16
10.333	0.29	0.27	0.012	O				0.16
10.417	0.29	0.28	0.012	O				0.17
10.500	0.29	0.28	0.012	O				0.17
10.583	0.30	0.28	0.012	O				0.17
10.667	0.30	0.28	0.012	O				0.17
10.750	0.30	0.29	0.012	O				0.17
10.833	0.30	0.29	0.012	O				0.17
10.917	0.31	0.29	0.013	O				0.17
11.000	0.31	0.29	0.013	O				0.18
11.083	0.31	0.30	0.013	O				0.18
11.167	0.32	0.30	0.013	O				0.18
11.250	0.32	0.30	0.013	O				0.18
11.333	0.32	0.30	0.013	O				0.18
11.417	0.33	0.31	0.013	O				0.18
11.500	0.33	0.31	0.013	O				0.19
11.583	0.33	0.31	0.014	O				0.19
11.667	0.34	0.32	0.014	O				0.19
11.750	0.34	0.32	0.014	O				0.19
11.833	0.34	0.32	0.014	O				0.19
11.917	0.35	0.33	0.014	O				0.20
12.000	0.35	0.33	0.014	O				0.20
12.083	0.37	0.33	0.015	O				0.20
12.167	0.44	0.35	0.015	OI				0.21
12.250	0.49	0.36	0.016	OI				0.22
12.333	0.50	0.38	0.017	OI				0.23
12.417	0.51	0.40	0.017	OI				0.24
12.500	0.52	0.42	0.018	OI				0.25
12.583	0.52	0.43	0.019	O				0.26
12.667	0.53	0.45	0.019	O				0.27
12.750	0.53	0.46	0.020	O				0.28
12.833	0.54	0.47	0.020	O				0.28
12.917	0.55	0.48	0.021	O				0.29
13.000	0.55	0.49	0.021	O				0.29
13.083	0.56	0.50	0.022	O				0.30
13.167	0.57	0.51	0.022	O				0.31
13.250	0.57	0.52	0.023	O				0.31
13.333	0.58	0.53	0.023	O				0.32
13.417	0.59	0.54	0.023	O				0.32
13.500	0.60	0.54	0.024	O				0.33
13.583	0.61	0.55	0.024	O				0.33
13.667	0.62	0.56	0.024	O				0.34
13.750	0.62	0.57	0.025	O				0.34
13.833	0.63	0.58	0.025	OI				0.35
13.917	0.64	0.59	0.026	OI				0.35
14.000	0.66	0.60	0.026	OI				0.36
14.083	0.67	0.61	0.026	OI				0.36
14.167	0.68	0.62	0.027	OI				0.37
14.250	0.69	0.63	0.027	OI				0.38
14.333	0.71	0.64	0.028	O				0.38
14.417	0.72	0.65	0.028	O				0.39

PEAK INFLOW AND HOUR FOR 2-YEAR, 24-HOUR STORM

14.500	0.74	0.66	0.029	O				0.40
14.583	0.76	0.67	0.029	O				0.40
14.667	0.78	0.69	0.030	O				0.41
14.750	0.80	0.70	0.030	O				0.42
14.833	0.82	0.72	0.031	O				0.43
14.917	0.84	0.73	0.032	O				0.44
15.000	0.87	0.75	0.033	OI				0.45
15.083	0.90	0.77	0.034	OI				0.46
15.167	0.93	0.79	0.034	OI				0.48
15.250	0.97	0.82	0.035	OI				0.49
15.333	1.01	0.84	0.037	OI				0.50
15.417	1.03	0.87	0.038	O				0.52
15.500	0.94	0.88	0.038	O				0.53
15.583	0.91	0.89	0.039	O				0.53
15.667	0.98	0.90	0.039	O				0.54
15.750	1.09	0.92	0.040	OI				0.55
15.833	1.27	0.96	0.042	O I				0.57
15.917	1.53	1.02	0.044	O I				0.61
16.000	2.09	1.14	0.049	O	I			0.68
16.083	3.61	1.39	0.060	O		I		0.83
16.167	6.76	1.87	0.085	O			I	1.17
16.250	4.62	2.22	0.110		O	I		1.52
16.333	1.92	2.32	0.117		IO			1.62
16.417	1.23	2.25	0.112	I	O			1.55
16.500	1.06	2.15	0.105	I	O			1.45
16.583	1.03	2.05	0.097	I	O			1.35
16.667	0.95	1.95	0.091	I	O			1.25
16.750	0.89	1.86	0.084	I	O			1.16
16.833	0.83	1.77	0.077	I	O			1.07
16.917	0.79	1.64	0.071	I	O			0.98
17.000	0.75	1.51	0.066	I	O			0.91
17.083	0.72	1.40	0.061	I	O			0.84
17.167	0.69	1.29	0.056	I	O			0.78
17.250	0.66	1.20	0.052	I	O			0.72
17.333	0.64	1.12	0.049	I	O			0.67
17.417	0.62	1.05	0.046	I	O			0.63
17.500	0.60	0.99	0.043	I	O			0.59
17.583	0.59	0.93	0.040	I	O			0.56
17.667	0.57	0.88	0.038	I	O			0.53
17.750	0.56	0.83	0.036	IO				0.50
17.833	0.54	0.79	0.034	IO				0.47
17.917	0.53	0.75	0.033	IO				0.45
18.000	0.52	0.72	0.031	IO				0.43
18.083	0.49	0.69	0.030	IO				0.41
18.167	0.42	0.65	0.028	I O				0.39
18.250	0.36	0.62	0.027	IO				0.37
18.333	0.35	0.58	0.025	IO				0.35
18.417	0.34	0.54	0.024	IO				0.33
18.500	0.33	0.51	0.022	IO				0.31
18.583	0.32	0.49	0.021	IO				0.29
18.667	0.32	0.46	0.020	IO				0.28
18.750	0.31	0.44	0.019	IO				0.26
18.833	0.31	0.42	0.018	O				0.25
18.917	0.30	0.40	0.017	O				0.24
19.000	0.29	0.39	0.017	O				0.23
19.083	0.29	0.37	0.016	O				0.22
19.167	0.28	0.36	0.016	O				0.22
19.250	0.28	0.35	0.015	O				0.21
19.333	0.27	0.34	0.015	O				0.20
19.417	0.27	0.33	0.014	O				0.20
19.500	0.27	0.32	0.014	O				0.19

PEAK OUTFLOW AND HOUR FOR 2-YEAR, 24-HOUR STORM

19.583	0.26	0.31	0.014	|O	|	|	|	0.19
19.667	0.26	0.30	0.013	|O	|	|	|	0.18
19.750	0.26	0.30	0.013	|O	|	|	|	0.18
19.833	0.25	0.29	0.013	|O	|	|	|	0.17
19.917	0.25	0.28	0.012	|O	|	|	|	0.17
20.000	0.24	0.28	0.012	|O	|	|	|	0.17
20.083	0.24	0.27	0.012	|O	|	|	|	0.16
20.167	0.24	0.27	0.012	|O	|	|	|	0.16
20.250	0.24	0.26	0.011	|O	|	|	|	0.16
20.333	0.23	0.26	0.011	|O	|	|	|	0.16
20.417	0.23	0.26	0.011	|O	|	|	|	0.15
20.500	0.23	0.25	0.011	|O	|	|	|	0.15
20.583	0.22	0.25	0.011	|O	|	|	|	0.15
20.667	0.22	0.24	0.011	|O	|	|	|	0.15
20.750	0.22	0.24	0.010	|O	|	|	|	0.14
20.833	0.22	0.24	0.010	|O	|	|	|	0.14
20.917	0.21	0.23	0.010	|O	|	|	|	0.14
21.000	0.21	0.23	0.010	|O	|	|	|	0.14
21.083	0.21	0.23	0.010	IO	|	|	|	0.14
21.167	0.21	0.23	0.010	IO	|	|	|	0.14
21.250	0.21	0.22	0.010	IO	|	|	|	0.13
21.333	0.20	0.22	0.010	IO	|	|	|	0.13
21.417	0.20	0.22	0.009	IO	|	|	|	0.13
21.500	0.20	0.22	0.009	IO	|	|	|	0.13
21.583	0.20	0.21	0.009	IO	|	|	|	0.13
21.667	0.20	0.21	0.009	O	|	|	|	0.13
21.750	0.19	0.21	0.009	O	|	|	|	0.13
21.833	0.19	0.21	0.009	O	|	|	|	0.12
21.917	0.19	0.20	0.009	O	|	|	|	0.12
22.000	0.19	0.20	0.009	O	|	|	|	0.12
22.083	0.19	0.20	0.009	O	|	|	|	0.12
22.167	0.19	0.20	0.009	O	|	|	|	0.12
22.250	0.18	0.20	0.009	O	|	|	|	0.12
22.333	0.18	0.19	0.008	O	|	|	|	0.12
22.417	0.18	0.19	0.008	O	|	|	|	0.12
22.500	0.18	0.19	0.008	O	|	|	|	0.11
22.583	0.18	0.19	0.008	O	|	|	|	0.11
22.667	0.18	0.19	0.008	O	|	|	|	0.11
22.750	0.18	0.19	0.008	O	|	|	|	0.11
22.833	0.17	0.18	0.008	O	|	|	|	0.11
22.917	0.17	0.18	0.008	O	|	|	|	0.11
23.000	0.17	0.18	0.008	O	|	|	|	0.11
23.083	0.17	0.18	0.008	O	|	|	|	0.11
23.167	0.17	0.18	0.008	O	|	|	|	0.11
23.250	0.17	0.18	0.008	O	|	|	|	0.11
23.333	0.17	0.18	0.008	O	|	|	|	0.11
23.417	0.17	0.17	0.008	O	|	|	|	0.10
23.500	0.17	0.17	0.008	O	|	|	|	0.10
23.583	0.16	0.17	0.007	O	|	|	|	0.10
23.667	0.16	0.17	0.007	O	|	|	|	0.10
23.750	0.16	0.17	0.007	O	|	|	|	0.10
23.833	0.16	0.17	0.007	O	|	|	|	0.10
23.917	0.16	0.17	0.007	O	|	|	|	0.10
24.000	0.16	0.17	0.007	O	|	|	|	0.10
24.083	0.14	0.16	0.007	O	|	|	|	0.10
24.167	0.06	0.15	0.007	O	|	|	|	0.09
24.250	0.01	0.14	0.006	O	|	|	|	0.08
24.333	0.00	0.12	0.005	O	|	|	|	0.07
24.417	0.00	0.10	0.004	O	|	|	|	0.06
24.500	0.00	0.09	0.004	O	|	|	|	0.05
24.583	0.00	0.07	0.003	O	|	|	|	0.04

24.667	0.00	0.06	0.003	O	|	|	|	|	0.04
24.750	0.00	0.05	0.002	O	|	|	|	|	0.03
24.833	0.00	0.05	0.002	O	|	|	|	|	0.03
24.917	0.00	0.04	0.002	O	|	|	|	|	0.02
25.000	0.00	0.03	0.001	O	|	|	|	|	0.02
25.083	0.00	0.03	0.001	O	|	|	|	|	0.02
25.167	0.00	0.02	0.001	O	|	|	|	|	0.01
25.250	0.00	0.02	0.001	O	|	|	|	|	0.01
25.333	0.00	0.02	0.001	O	|	|	|	|	0.01
25.417	0.00	0.01	0.001	O	|	|	|	|	0.01
25.500	0.00	0.01	0.001	O	|	|	|	|	0.01
25.583	0.00	0.01	0.000	O	|	|	|	|	0.01
25.667	0.00	0.01	0.000	O	|	|	|	|	0.01
25.750	0.00	0.01	0.000	O	|	|	|	|	0.00
25.833	0.00	0.01	0.000	O	|	|	|	|	0.00
25.917	0.00	0.01	0.000	O	|	|	|	|	0.00
26.000	0.00	0.00	0.000	O	|	|	|	|	0.00
26.083	0.00	0.00	0.000	O	|	|	|	|	0.00
26.167	0.00	0.00	0.000	O	|	|	|	|	0.00
26.250	0.00	0.00	0.000	O	|	|	|	|	0.00
26.333	0.00	0.00	0.000	O	|	|	|	|	0.00
26.417	0.00	0.00	0.000	O	|	|	|	|	0.00
26.500	0.00	0.00	0.000	O	|	|	|	|	0.00
26.583	0.00	0.00	0.000	O	|	|	|	|	0.00

**********HYDROGRAPH DATA**********

Number of intervals = 319
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 2.317 (CFS)
Total volume = 0.799 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

6.4.4 BMP SPECS. /MAINTENANCE/INSPECTION

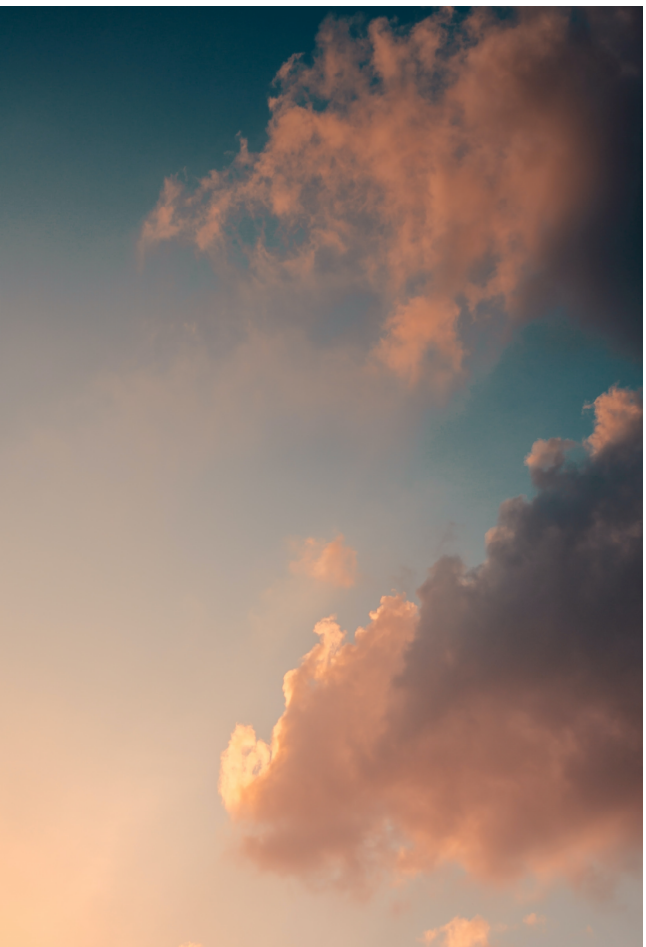
(To be added at final WQMP)

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Appendix F. Hydrology Report







HYDROLOGY AND HYDRAULIC REPORT (PRELIMINARY)

Chino Corporate Center

Chino, California

Prepared for:

BCT Dev Acquisition Co.
130 Newport Center Dr.
Newport Beach, CA 92660

REGISTERED PROFESSIONAL ENGINEER
MOYENUDDIN A. SIRAJEE
No.C 63867
EXP.09/30/26
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STATE OF CALIFORNIA

Prepared By
Moyenuddin Sirajee, PE

Project Manager:

CAROLINA GONZALEZ

Date Prepared: December 2024
Date Revised: February 2025

Project Number: 4200-001

FUSCOE ENGINEERING, INC.
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HYDROLOGY AND HYDRAULIC REPORT

(PRELIMINARY)

CHINO CORPORATE CENTER

Located Southwest of Corporate Center Avenue
in the
City of Chino
County of San Bernardino, California

Prepared for:

BCT DEV ACQUISITION CO
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Newport Beach, CA 92660
949.444.1595

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Date Created: December 2024
Revised: February 2025

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Appendix 2 *NOAA Precipitation Data*

Appendix 3 *Rational Method Pre and Post Development (Q100 & Q2)*

Appendix 4 *Unit Hydrograph Method Pre and Post Development (Q2)*

Appendix 5 *Detention Basin Charachteristics, Routing Calculation, Weir Capacity Calculation of Flow Control Structure & Box Pipe Capacity Calculation*

Appendix 6 *Hydrology Maps Pre and Post Development Condition, Unit Hydrograph Map, Detention Chamber and Flow Control Structure Detail*

Appendix 7 *Reference Drawing (City of Chino SD Plan no. AA-2343SD)*

Appendix 8 *Soil's Report*

1.0 INTRODUCTION

1.1 GEOGRAPHIC SETTING

The proposed Chino Corporate Center project is located southwest from Corporate Center Avenue. It is currently undeveloped area with a gross land area of approximately 4.20 Acres. This specific site is part of APN 102-521-129 in the City of Chino, CA. The approximate latitude and longitude of the project is 33.985 and -117.7096 respectively. The total disturbed area for this development is approximately 4.12 Ac. For additional detail see Project Site Location or Vicinity Map on paragraph 1.3 next page.

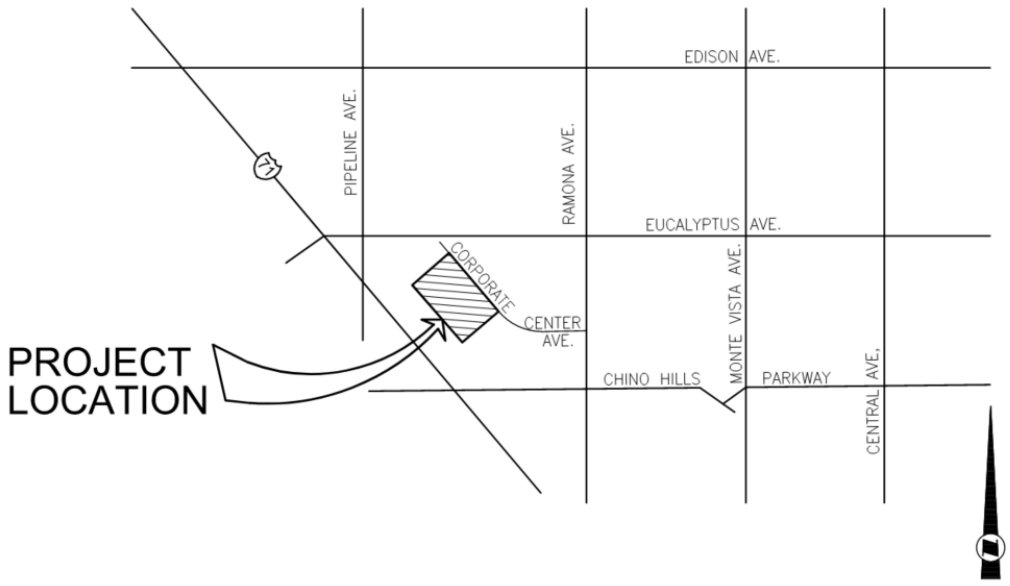
1.2 PURPOSE OF THIS REPORT

The proposed Chino Corporate Center development will include the construction of an apartment complex with its amenities, drive aisles, landscaping, parking areas and dry/wet utilities. The purpose of this report is to determine the storm water runoff from the completed project site that will not have any adverse drainage impacts on adjacent or downstream property or any downstream drainage system for the 24-hour design storm for 10-year and 100-year return frequency rainfall events as required by the City of Chino general hydrology design. Sizing of all on-site and off-site drainage pipes and structures will not be part of this preliminary report.

1.3 REFERENCES

- San Bernardino County Hydrology Manual 1986
- The Urban Drainage Design Manual (Federal Highway Administration)

1.3 PROJECT SITE LOCATION MAP



VICINITY MAP
NOT TO SCALE

1.4 SOIL & PRECIPITATION-RAINFALL INTENSITY DATA

Per the Geotechnical Exploration Report conducted by ENGEO, Inc under Project No. 25751.000.001 dated July 24, 2024, the site is underlain by loose alluvial deposits. No groundwater was encountered during the subsurface exploration for infiltration capacity testing locations up to a depth of 20 feet.

The Precipitation and Rainfall Intensity Data for this site was obtained from NOAA web site and can be found in Appendix 2 of this report.

Per San Bernardino County Stormwater Facility Mapping Tool, the Hydrologic Soils group for the project is type-B.

2.0 EXISTING TOPOGRAPHIC & HYDROLOGIC CONDITIONS

2.1 EXISTING TOPOGRAPHY

The project site is currently an undeveloped site with approximately 4.3% imperviousness. It is slightly elevated from northwest to southeast with elevations ranging from 639 to 632 feet above mean sea level (amsl). The ground surface cover consisted of scattered seasonal grass, some lawn and shrub and asphalt pavement on the northeast. Northwest and southeast of the property are currently commercial. The property is bounded by the State Route 71 on the southwest and the Corporate Center Ave on the northeast.

2.2 EXISTING DRAINAGE SYSTEM

Currently there is no existing drainage facilities on site. Runoff generating from the site surface flows into the adjacent land and adjacent street namely Corporate Center Avenue. The accumulated runoff on Corporate Center Avenue captured by street Catch Basin Inlets and ultimately drain into an existing 30-inch storm drainpipe under Corporate Center Avenue. See Appendix 4 for the existing drainage map.

3.0 PROPOSED DEVELOPMENT AND DRAINAGE FACILITIES

3.1 PROPOSED DEVELOPMENT

The proposed development will include the construction of multi-family apartment complex, alley ways, and landscaping. Additionally, the development will include installation of appropriate drainage facilities and other utilities. Post development imperviousness is assumed to be 90% using proposed Land Use Development type (Commercial) per SBC Hydrology manual.

3.2 PROPOSED DRAINAGE FACILITY

On site runoff will be intercepted by series of catch basins which then drain into the proposed underground Infiltration/Detention chamber (Proprietary PCC storage box for Infiltration and temporary runoff detention to mitigate Water Quality and Hydromodification requirements).

The runoff then drains into the existing 30-inch storm drain system located under Corporate Center Avenue. The proposed flow pattern would remain unchanged.

4.0 HYDROLOGY AND HYDRAULIC STUDY

4.1 METHODOLOGY

The hydrology study was performed under the guidelines of the San Bernardino County (SBC) Hydrology Manual. Rational method was used to calculate peak runoff rates as prescribed by the San Bernardino County Hydrology Manual.

Computer programs were used:

- Rational Method, Unit Hydrograph & Flood Hydrograph Routing; CIVILD

Results of the analysis are included in this report on Appendix 3.

4.2 WATER QUALITY AND HYDROMODIFICATION

To mitigate water Quality and Hydromodification requirements this project proposed to install underground Infiltration and Detention Chambers. Infiltration Chamber was sized to infiltrate the larger volume of project DCV and 2-year pre and post development Delta Volume. Project's Water Quality Management Plan quantify the sizes of these infiltration chambers and accordingly can be found in the WQMP report. Detention Chamber was sized to mitigate Pre-Development vs Post-Development 2-year peak Runoff Rate and Time of concentration. Unit Hydrograph methodology was used to calculate runoff volume for 24-hour duration 2-year storm event for both pre and post construction project condition. A flow control structure was added before the project discharge point, which will control the 2-year peak flow within the threshold as required by project WQMP. A Routing calculation was used to calculate Detention volume required to limit 2-year flow discharge as required by project WQMP. The summery of all these calculations can be found in next section (Section 5.0) of this report. All the supporting calculations are attached in Appendix-4 and 5. The Flow Control structure was sized to accommodate 100-year peak flow. A supporting calculation can be found in Appendix-5 of this report.

5.0 RESULTS AND CONCLUSIONS

Based on the calculations, it was determined that the proposed development discharge rates for 100-year storm event would be 17.32 cfs. The entire flow would be captured through the onsite inlet system. Therefore, no flow draining into adjacent property as it was occurring at predevelopment condition, no increase of runoff into the adjacent Corporate Center Avenue. Thus, no adverse drainage impact on adjacent and downstream property. It is anticipated that there will be no flooding in the site due to this development and mitigation measures. A calculation shows that the proposed 3.5-ft by 1-ft box-pipe lateral leaving the site has the capacity to carry 100-year storm generated from this site (See Appendix-5 for supporting Calculation). Rational Method calculation for pre and post development condition can be found on Appendix 3.

PRE-DEVELOPED CONDITIONS 100 YEAR STORM EVENT

Drainage Area	Remarks	Area (acre)	Soil Type	Peak Flow Q100Y (cfs)
DA-1	Discharging to Location Node 1.02	4.12	B	11.71

POST-DEVELOPED CONDITIONS 100 YEAR STORM EVENT

Drainage Area	Remarks	Area (acre)	Soil Type	Q100Y (cfs)
DA-1	From Node 1.01 to Node 1.02	0.38	B	2.27
DA-2	From Node 2.01 to Node 2.02	0.43	B	2.03
DA-3	From Node 3.01 to Node 3.02	1.57	B	6.53
DA-4	From Node 4.01 to Node 4.02	0.37	B	1.93
DA-5	From Node 5.01 to Node 5.02	1.15	B	5.18
DA-6	From Node 6.01 to Node 6.02	0.22	B	1.12
	Total Flow Without Confluencing Equation =	4.12		19.06
	Total Flow using Confluencing Equation=	4.12		17.32

UNIT HYDROGRAPH RUNOFF VOLUME AND RATE COMPARISON SUMMARY

Q-2 VOLUME SUMMARY (MITIGATE VOLUME REDUCTION)		
V2 (24-Hour, 2-year Pre-Developed Condition)	0.1836	ac-ft
V2 (24-Hour, 2-year Post-Developed Condition)	0.7991	ac-ft
Delta V2 (Pre vs 95% of Post)	0.5755	ac-ft
Delta V2 (Pre vs 95% of Post)	25071	cu-ft
DCV Required to be infiltrate	17865	cu-ft
Storage for Infiltration provided (Unit-1 and Unit 2 Total Volume)	25818	cu-ft

FLOW RATE SUMMARY (TO MITIGATE VELOCITY)		
Q2 (2-year Pre-Developed Condition)	2.51	cfs
Q2 (2-year Post-Developed Condition)	6.76	cfs
Q2 reduction to meet HCOC requirements	3.91	cfs
Maximum Q2 allowed from Site	2.85	cfs
Actual Q2 leaving site (After detention)	2.32	cfs

TIME OF CONCENTRATION TC		
Hour Mark of Peak Flow Pre-Detention (See Routing Calculation)	16.167	hour
Hour Mark of Peak Flow Post-Detention (See Routing Calculation)	16.333	hour
Addition of TC due to Detention	0.166	hour
	9.96	min.
Post-Development TC per Rational Method	8.04	min.
Total TC Post-Detention	18.00	min.
TC at Pre-Development condition	15.75	min.

CONCLUSION:

PRE-DEVELOPMENT VS. POST-DEVELOPMENT FLOW SUMMARY		
Discharge Location	Pre-Development Peak Flow rate Q100	Post-Development Peak Flow rate Q100
LEAVING SITE	**11.71 cfs**	**17.32 cfs**

To mitigate Water Quality and HMOD:

Volume reduction for this development need to be 25,071 cu-ft (Larger of DCV=17,865 and Delta V2=25,071 cu-ft). Discharge Volume reduced through infiltration is proposed to be 25,818 cu-ft which is more than the required reduction.

Per Rational method calculation the Q2 Flow reduction for this development needs to be 3.91cfs (6.76X0.95-2.51). Therefore, the maximum Q2 allowed for this development at its discharge point would be 2.85 cfs (6.76-3.91). Actual Q2 released after detention is 2.32 cfs, which is less than the maximum allowed.

TC at Pre-Development condition fond to be 15.75 min. After Detention the TC was found to be 18.00 min. which is more than the pre-development TC.

Therefore, all the Water Quality and HMOD requirements were satisfied.

6.0 APPENDICES

Appendix 1 *SB Conty Soil Classification and Maps*

Appendix 2 *NOAA Precipitation Data*

Appendix 3 *Rational Method Pre and Post Development (Q_{100} & Q_2)*

Appendix 4 *Unit Hydrograph Method Pre and Post Development (Q_2)*

Appendix 5 *Detention Basin Charachteristics, Routing Calculation, Weir Capacity Calculation of Flow Control Structure & Box Pipe Capacity Calculation*

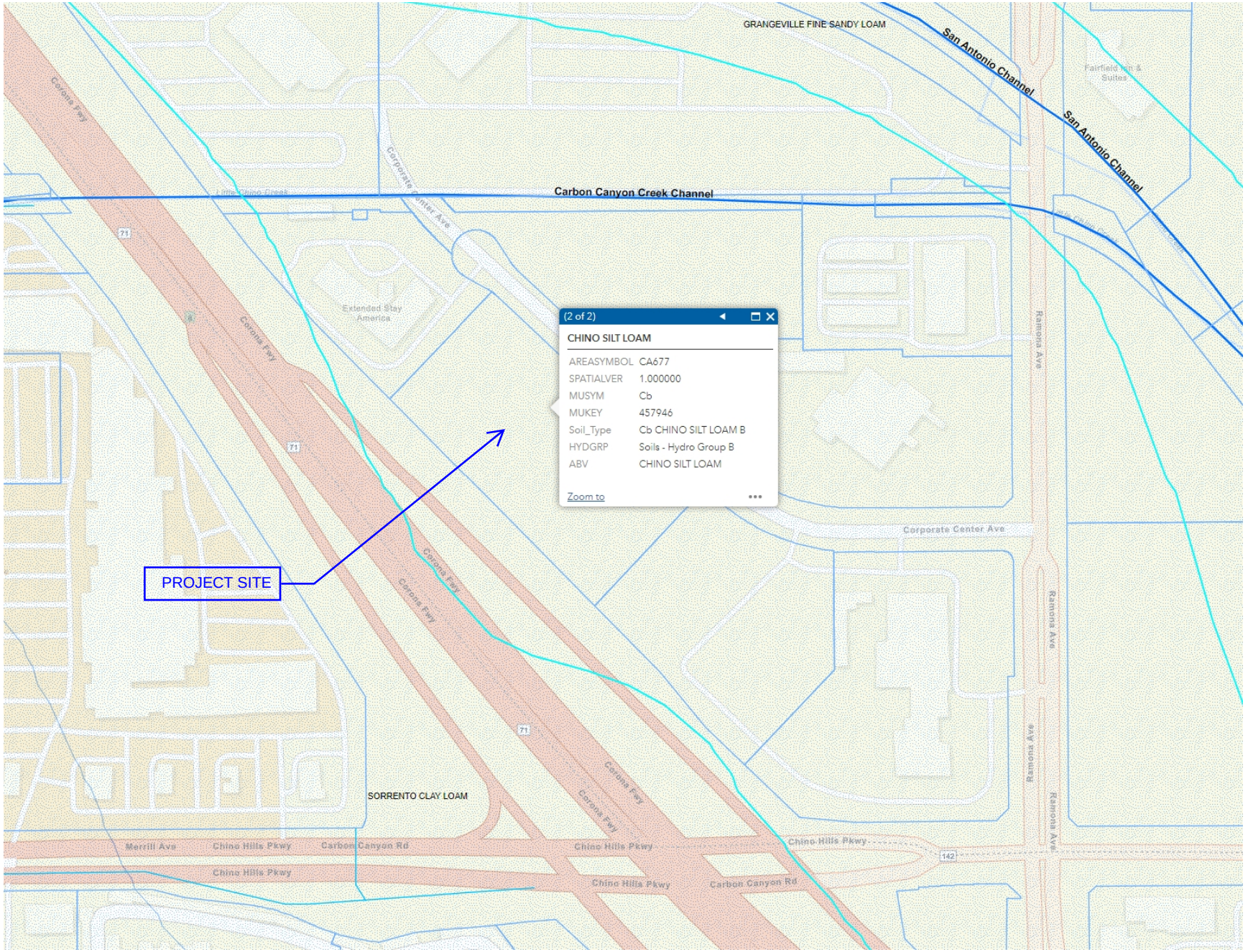
Appendix 6 *Hydrology Maps Pre and Post Development Condition, Unit Hydrograph Map, Detention Chamber and Flow Control Structure Detail*

Appendix 7 *Reference Drawing (City of Chino SD Plan no. AA-2343SD)*

Appendix 8 *Soil's Report*

APPENDIX 1

SOIL CLASSIFICATION AND MAPS


GRANGEVILLE FINE SANDY LOAM
San Antonio Channel
San Antonio Channel
Carbon Canyon Creek Channel
Corporate Center Ave
Corona Fwy
Ramona Ave
(2 of 2)
CHINO SILT LOAM
AREASYMBOL CA677
SPATIALVER 1.000000
MUSYM Cb
MUKEY 457946
Soil_Type Cb CHINO SILT LOAM B
HYDGRP Soils - Hydro Group B
ABV CHINO SILT LOAM
Zoom to
PROJECT SITE
SORRENTO CLAY LOAM
Merrill Ave
Chino Hills Pkwy
Carbon Canyon Rd
71
142

APPENDIX 2

NOAA PRECIPITATION DATA

NOAA Atlas 14, Volume 6, Version 2
Location name: Chino, California, USA*
Latitude: 33.985°, Longitude: -117.7096°
Elevation: 638 ft**
* source: ESRI Maps
** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sarah Dietz, Sarah Heim, Lillian Hiner, Kazungu Maitaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Carl Trypaluk, Dale Unruh, Fenglin Yan, Michael Yekta, Tan Zhao, Geoffrey Bonnin, Daniel Brewer, Li-Chuan Chen, Tye Parzybok, John Yarchoan

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.120 (0.100-0.145)	0.156 (0.130-0.189)	0.205 (0.170-0.249)	0.245 (0.202-0.300)	0.302 (0.240-0.382)	0.346 (0.269-0.448)	0.392 (0.297-0.521)	0.440 (0.324-0.603)	0.507 (0.358-0.726)	0.560 (0.382-0.831)
10-min	0.172 (0.144-0.208)	0.224 (0.187-0.271)	0.294 (0.244-0.356)	0.352 (0.290-0.431)	0.432 (0.344-0.548)	0.496 (0.386-0.643)	0.562 (0.426-0.747)	0.631 (0.465-0.864)	0.727 (0.513-1.04)	0.803 (0.547-1.19)
15-min	0.208 (0.174-0.251)	0.271 (0.226-0.328)	0.355 (0.296-0.431)	0.425 (0.351-0.521)	0.523 (0.416-0.663)	0.600 (0.467-0.777)	0.679 (0.516-0.903)	0.763 (0.562-1.04)	0.879 (0.620-1.26)	0.971 (0.661-1.44)
30-min	0.304 (0.254-0.368)	0.396 (0.331-0.480)	0.520 (0.433-0.631)	0.622 (0.513-0.762)	0.765 (0.609-0.970)	0.877 (0.684-1.14)	0.994 (0.755-1.32)	1.12 (0.823-1.53)	1.29 (0.908-1.84)	1.42 (0.968-2.11)
60-min	0.450 (0.376-0.544)	0.586 (0.489-0.710)	0.769 (0.640-0.933)	0.921 (0.760-1.13)	1.13 (0.902-1.44)	1.30 (1.01-1.68)	1.47 (1.12-1.96)	1.65 (1.22-2.26)	1.90 (1.34-2.72)	2.10 (1.43-3.12)
2-hr	0.674 (0.563-0.815)	0.878 (0.733-1.06)	1.14 (0.952-1.39)	1.36 (1.12-1.66)	1.65 (1.32-2.09)	1.87 (1.46-2.43)	2.10 (1.59-2.79)	2.33 (1.72-3.19)	2.64 (1.87-3.78)	2.89 (1.96-4.28)
3-hr	0.851 (0.711-1.03)	1.11 (0.924-1.34)	1.44 (1.20-1.75)	1.70 (1.41-2.09)	2.06 (1.64-2.61)	2.33 (1.82-3.02)	2.60 (1.98-3.46)	2.88 (2.13-3.95)	3.26 (2.30-4.66)	3.54 (2.41-5.26)
6-hr	1.19 (0.995-1.44)	1.55 (1.29-1.87)	2.00 (1.67-2.43)	2.37 (1.95-2.90)	2.85 (2.27-3.62)	3.22 (2.51-4.18)	3.59 (2.73-4.78)	3.97 (2.92-5.43)	4.47 (3.16-6.40)	4.86 (3.31-7.20)
12-hr	1.57 (1.31-1.90)	2.04 (1.70-2.47)	2.65 (2.21-3.22)	3.15 (2.60-3.85)	3.81 (3.04-4.84)	4.32 (3.37-5.60)	4.84 (3.67-6.43)	5.36 (3.96-7.35)	6.08 (4.29-8.69)	6.63 (4.51-9.83)
24-hr	2.05 (1.81-2.36)	2.68 (2.37-3.09)	3.51 (3.10-4.07)	4.20 (3.67-4.90)	5.14 (4.35-6.20)	5.88 (4.87-7.23)	6.63 (5.37-8.35)	7.41 (5.84-9.60)	8.48 (6.42-11.4)	9.32 (6.82-13.0)
2-day	2.49 (2.21-2.88)	3.33 (2.94-3.84)	4.45 (3.92-5.15)	5.38 (4.71-6.28)	6.69 (5.66-8.06)	7.72 (6.40-9.50)	8.80 (7.12-11.1)	9.93 (7.82-12.9)	11.5 (8.71-15.5)	12.8 (9.34-17.8)
3-day	2.70 (2.38-3.11)	3.64 (3.22-4.20)	4.93 (4.34-5.70)	6.01 (5.25-7.01)	7.53 (6.37-9.07)	8.74 (7.24-10.7)	10.0 (8.10-12.6)	11.3 (8.94-14.7)	13.2 (10.0-17.9)	14.8 (10.8-20.6)
4-day	2.92 (2.59-3.37)	3.98 (3.52-4.59)	5.41 (4.77-6.26)	6.61 (5.78-7.71)	8.30 (7.02-10.0)	9.64 (7.99-11.9)	11.0 (8.94-13.9)	12.5 (9.87-16.2)	14.6 (11.1-19.7)	16.3 (11.9-22.7)
7-day	3.34 (2.95-3.85)	4.55 (4.02-5.26)	6.19 (5.46-7.16)	7.55 (6.60-8.81)	9.44 (7.99-11.4)	10.9 (9.07-13.5)	12.5 (10.1-15.7)	14.1 (11.1-18.3)	16.3 (12.4-22.0)	18.1 (13.3-25.3)
10-day	3.65 (3.23-4.21)	4.99 (4.41-5.76)	6.78 (5.98-7.86)	8.27 (7.23-9.65)	10.3 (8.74-12.5)	11.9 (9.90-14.7)	13.6 (11.0-17.1)	15.3 (12.1-19.9)	17.7 (13.4-23.9)	19.6 (14.4-27.4)
20-day	4.38 (3.87-5.05)	6.05 (5.35-6.98)	8.29 (7.31-9.60)	10.2 (8.88-11.9)	12.8 (10.8-15.4)	14.8 (12.3-18.2)	16.9 (13.7-21.3)	19.1 (15.1-24.8)	22.2 (16.8-29.9)	24.6 (18.0-34.4)
30-day	5.23 (4.63-6.04)	7.26 (6.41-8.38)	10.0 (8.82-11.6)	12.3 (10.8-14.4)	15.6 (13.2-18.8)	18.1 (15.0-22.3)	20.8 (16.9-26.3)	23.7 (18.7-30.7)	27.7 (21.0-37.4)	30.9 (22.6-43.2)
45-day	6.18 (5.47-7.13)	8.56 (7.56-9.88)	11.8 (10.4-13.7)	14.6 (12.8-17.1)	18.7 (15.8-22.5)	21.9 (18.2-27.0)	25.4 (20.5-32.0)	29.1 (22.9-37.7)	34.4 (26.0-46.4)	38.7 (28.3-54.0)
60-day	7.12 (6.30-8.21)	9.78 (8.65-11.3)	13.5 (11.9-15.7)	16.8 (14.7-19.6)	21.5 (18.2-25.9)	25.4 (21.1-31.3)	29.6 (24.0-37.3)	34.2 (27.0-44.3)	40.8 (30.9-55.1)	46.4 (33.9-64.7)

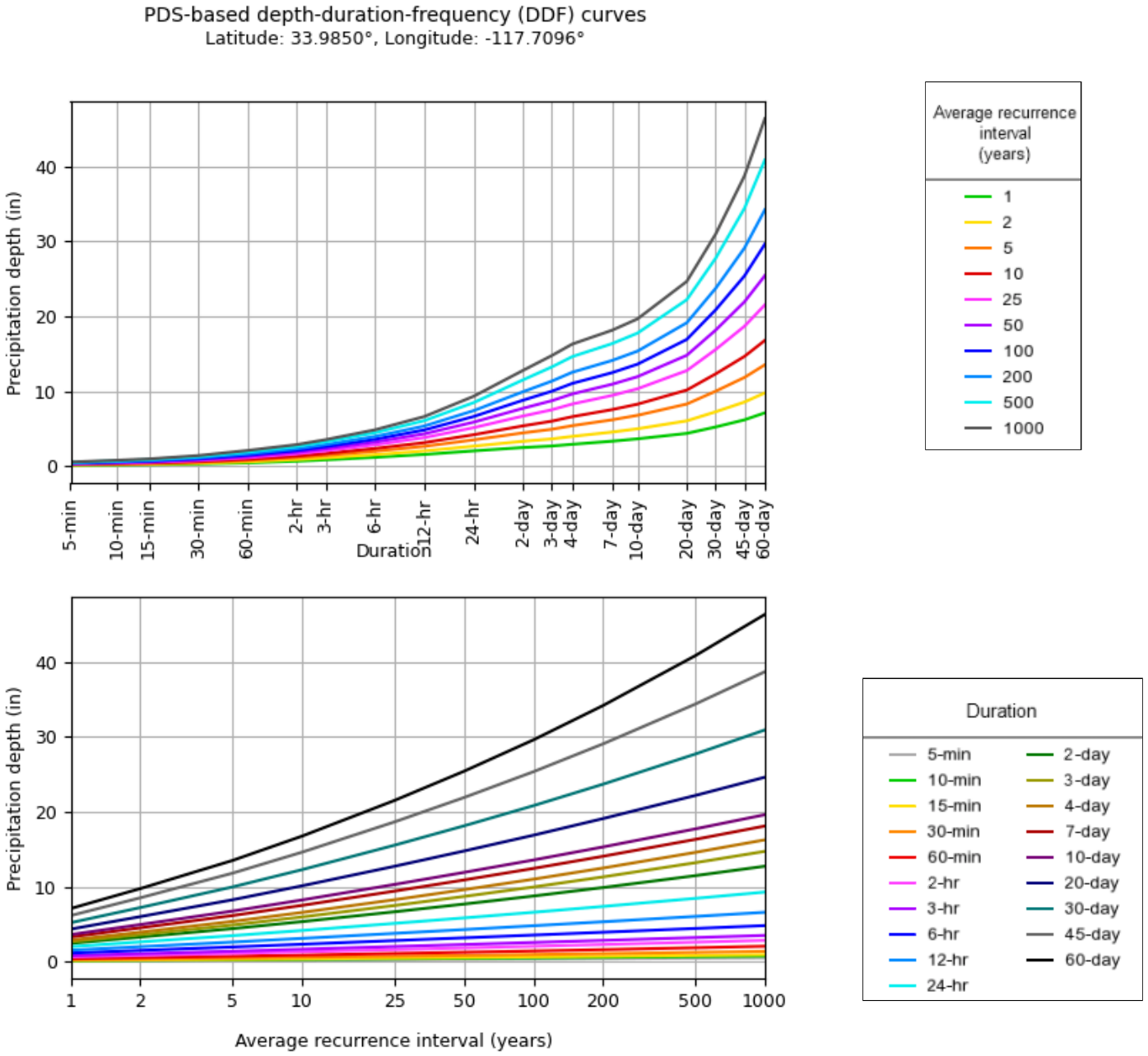
[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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PF graphical



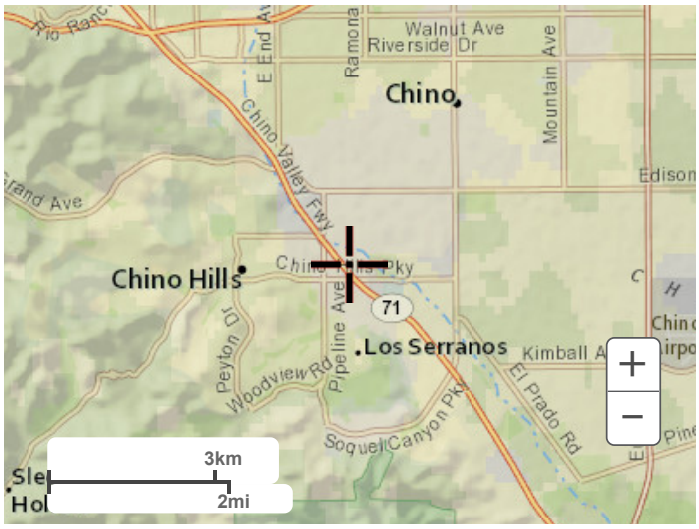
NOAA Atlas 14, Volume 6, Version 2

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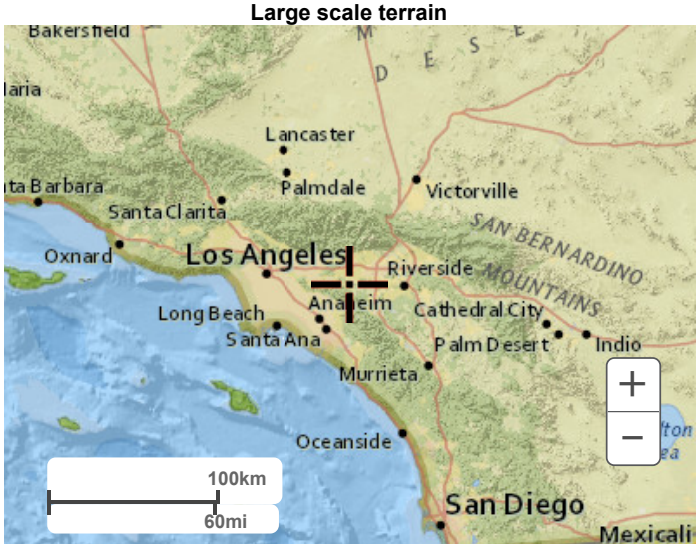
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Maps & aerials

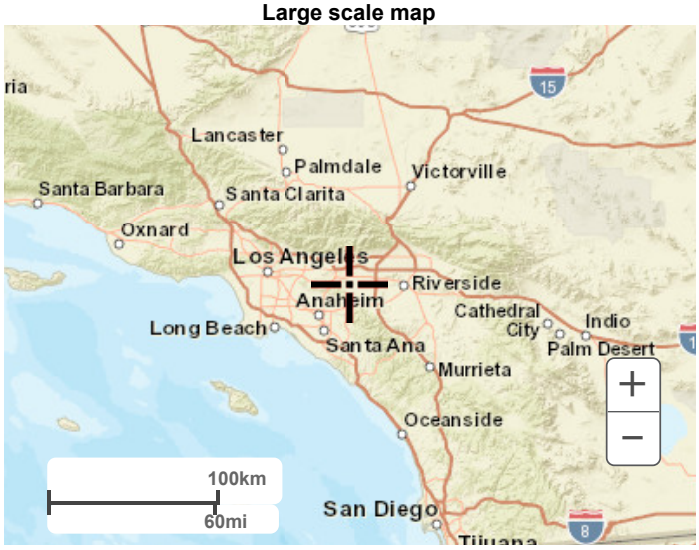
Small scale terrain



Large scale terrain



Large scale map



Large scale aerial



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US Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
National Water Center
1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

Disclaimer

APPENDIX 3

RATIONAL METHOD
PRE AND POST DEVELOPMENT (Q100 & Q2)

San Bernardino County Rational Hydrology Program

(Hydrology Manual Date - August 1986)

CIVILCADD/CIVILDESIGN Engineering Software, (c) 1989-2014 Version 9.0
Rational Hydrology Study Date: 01/24/25

PREDEVELOPMENT RATIONAL METHOD
100-YEAR STORM EVENT
4200001EX100
FUSCOE ENGINEERING

Program License Serial Number 6103

********* Hydrology Study Control Information **********

Rational hydrology study storm event year is 100.0
Computed rainfall intensity:
Storm year = 100.00 1 hour rainfall = 1.470 (In.)
Slope used for rainfall intensity curve b = 0.6000
Soil antecedent moisture condition (AMC) = 3

++

Process from Point/Station 1.010 to Point/Station 1.020
**** INITIAL AREA EVALUATION ****

Soil classification AP and SCS values input by user
USER INPUT of soil data for subarea
SCS curve number for soil(AMC 2) = 79.00
Adjusted SCS curve number for AMC 3 = 93.40
Pervious ratio(Ap) = 0.9600 Max loss rate(Fm)= 0.124(In/Hr)
Initial subarea data:
Initial area flow distance = 579.000(Ft.)
Top (of initial area) elevation = 639.000(Ft.)
Bottom (of initial area) elevation = 632.000(Ft.)
Difference in elevation = 7.000(Ft.)
Slope = 0.01209 s(%)= 1.21
TC = k(0.511)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 15.747 min.
Rainfall intensity = 3.280(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.866
Subarea runoff = 11.705(CFS)
Total initial stream area = 4.120(Ac.)
Pervious area fraction = 0.960
Initial area Fm value = 0.124(In/Hr)
End of computations, Total Study Area = 4.12 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.
Note: These figures do not consider reduced effective area
effects caused by confluences in the rational equation.

Area averaged pervious area fraction(Ap) = 0.960
Area averaged SCS curve number = 79.0

San Bernardino County Rational Hydrology Program

(Hydrology Manual Date - August 1986)

CIVILCADD/CIVILDESIGN Engineering Software, (c) 1989-2014 Version 9.0
Rational Hydrology Study Date: 01/24/25

PREDEVELOPMENT RATIONAL METHOD
2-YEAR STORM EVENT
4200001EX02
FUSCOE ENGINEERING

Program License Serial Number 6103

********* Hydrology Study Control Information **********

Rational hydrology study storm event year is 2.0
Computed rainfall intensity:
Storm year = 2.00 1 hour rainfall = 0.586 (In.)
Slope used for rainfall intensity curve b = 0.6000
Soil antecedent moisture condition (AMC) = 1

++

Process from Point/Station 1.010 to Point/Station 1.020
**** INITIAL AREA EVALUATION ****

Soil classification AP and SCS values input by user
USER INPUT of soil data for subarea
SCS curve number for soil(AMC 2) = 79.00
Adjusted SCS curve number for AMC 1 = 61.80
Pervious ratio(Ap) = 0.9600 Max loss rate(Fm)= 0.628(In/Hr)
Initial subarea data:
Initial area flow distance = 579.000(Ft.)
Top (of initial area) elevation = 639.000(Ft.)
Bottom (of initial area) elevation = 632.000(Ft.)
Difference in elevation = 7.000(Ft.)
Slope = 0.01209 s(%)= 1.21
TC = k(0.511)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 15.747 min.
Rainfall intensity = 1.308(In/Hr) for a 2.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.468
Subarea runoff = 2.519(CFS)
Total initial stream area = 4.120(Ac.)
Pervious area fraction = 0.960
Initial area Fm value = 0.628(In/Hr)
End of computations, Total Study Area = 4.12 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.
Note: These figures do not consider reduced effective area
effects caused by confluences in the rational equation.

Area averaged pervious area fraction(Ap) = 0.960
Area averaged SCS curve number = 79.0

San Bernardino County Rational Hydrology Program

(Hydrology Manual Date - August 1986)

CIVILCADD/CIVILDESIGN Engineering Software, (c) 1989-2014 Version 9.0
Rational Hydrology Study Date: 01/28/25

POSTDEVELOPMENT RATIONAL METHOD
100-YEAR EVENT
4200001PROP100
FUSCOE ENGINEERING

Program License Serial Number 6103

********* Hydrology Study Control Information **********

Rational hydrology study storm event year is 100.0
Computed rainfall intensity:
Storm year = 100.00 1 hour rainfall = 1.470 (In.)
Slope used for rainfall intensity curve b = 0.6000
Soil antecedent moisture condition (AMC) = 3

++

Process from Point/Station 1.010 to Point/Station 1.020
**** INITIAL AREA EVALUATION ****

COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2) = 56.00
Adjusted SCS curve number for AMC 3 = 75.80
Pervious ratio(Ap) = 0.1000 Max loss rate(Fm)= 0.044(In/Hr)
Initial subarea data:
Initial area flow distance = 114.000(Ft.)
Top (of initial area) elevation = 638.000(Ft.)
Bottom (of initial area) elevation = 636.500(Ft.)
Difference in elevation = 1.500(Ft.)
Slope = 0.01316 s(%)= 1.32
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 4.806 min.
Rainfall intensity = 6.685(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.894
Subarea runoff = 2.271(CFS)
Total initial stream area = 0.380(Ac.)
Pervious area fraction = 0.100
Initial area Fm value = 0.044(In/Hr)

++

Process from Point/Station 1.020 to Point/Station 1.050
**** PIPEFLOW TRAVEL TIME (User specified size) ****

Upstream point/station elevation = 626.800(Ft.)

```
Downstream point/station elevation =   626.500(Ft.)
Pipe length  =    24.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     2.271(CFS)
Given pipe size =     12.00(In.)
Calculated individual pipe flow  =     2.271(CFS)
Normal flow depth in pipe =    6.49(In.)
Flow top width inside pipe =   11.96(In.)
Critical Depth =    7.73(In.)
Pipe flow velocity =      5.24(Ft/s)
Travel time through pipe =    0.08 min.
Time of concentration (TC) =     4.88 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.020 to Point/Station        1.050
**** CONFLUENCE OF MAIN STREAMS ****
______________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =      0.380(Ac.)
Runoff from this stream =      2.271(CFS)
Time of concentration =    4.88 min.
Rainfall intensity =     6.622(In/Hr)
Area averaged loss rate (Fm) =    0.0440(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.030 to Point/Station        1.040
**** INITIAL AREA EVALUATION ****
______________________________________________________________________________
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Adjusted SCS curve number for AMC 3 = 75.80
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.044(In/Hr)
Initial subarea data:
Initial area flow distance =   192.000(Ft.)
Top (of initial area) elevation =   638.300(Ft.)
Bottom (of initial area) elevation =   637.300(Ft.)
Difference in elevation =     1.000(Ft.)
Slope =    0.00521  s(%)=       0.52
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    7.126 min.
Rainfall intensity =      5.278(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.892
Subarea runoff =      2.026(CFS)
Total initial stream area =        0.430(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.044(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.040 to Point/Station        1.050
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =   626.600(Ft.)
```

```
Downstream point/station elevation =   626.500(Ft.)
Pipe length  =    24.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     2.026(CFS)
Given pipe size =     12.00(In.)
Calculated individual pipe flow  =     2.026(CFS)
Normal flow depth in pipe =    8.74(In.)
Flow top width inside pipe =   10.67(In.)
Critical Depth =    7.28(In.)
Pipe flow velocity =      3.30(Ft/s)
Travel time through pipe =    0.12 min.
Time of concentration (TC) =     7.25 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.040 to Point/Station        1.050
**** CONFLUENCE OF MAIN STREAMS ****
________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      0.430(Ac.)
Runoff from this stream =      2.026(CFS)
Time of concentration =    7.25 min.
Rainfall intensity =     5.225(In/Hr)
Area averaged loss rate (Fm) =    0.0440(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)   (Ac.)       (min) (In/Hr)     (In/Hr)


1      2.27     0.380      4.88    0.044      6.622
2      2.03     0.430      7.25    0.044      5.225
Qmax(1) =
           1.000 *    1.000 *     2.271) +
           1.270 *    0.674 *     2.026) + =       4.004
Qmax(2) =
           0.788 *    1.000 *     2.271) +
           1.000 *    1.000 *     2.026) + =       3.815

Total of 2 main streams to confluence:
Flow rates before confluence point:
       3.271       3.026
Maximum flow rates at confluence using above data:
        4.004        3.815
Area of streams before confluence:
        0.380        0.430
Effective area values after confluence:
        0.670        0.810


Results of confluence:
Total flow rate =      4.004(CFS)
Time of concentration =     4.883 min.
Effective stream area after confluence  =      0.670(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.044(In/Hr)
Study area total =       0.81(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
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Process from Point/Station        1.050 to Point/Station        1.080
**** PIPEFLOW TRAVEL TIME (User specified size) ****
------------------------------------------------------------------------
Upstream point/station elevation =   626.500(Ft.)
Downstream point/station elevation =   625.400(Ft.)
Pipe length  =   253.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     4.004(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =     4.004(CFS)
Normal flow depth in pipe =    9.82(In.)
Flow top width inside pipe =   17.93(In.)
Critical Depth =    9.18(In.)
Pipe flow velocity =      4.06(Ft/s)
Travel time through pipe =    1.04 min.
Time of concentration (TC) =     5.92 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.050 to Point/Station        1.080
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =      0.670(Ac.)
Runoff from this stream =      4.004(CFS)
Time of concentration =    5.92 min.
Rainfall intensity =     5.899(In/Hr)
Area averaged loss rate (Fm) =    0.0440(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


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Process from Point/Station        1.060 to Point/Station        1.070
**** INITIAL AREA EVALUATION ****
------------------------------------------------------------------------
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Adjusted SCS curve number for AMC 3 = 75.80
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.044(In/Hr)
Initial subarea data:
Initial area flow distance =   167.000(Ft.)
Top (of initial area) elevation =   636.700(Ft.)
Bottom (of initial area) elevation =   635.200(Ft.)
Difference in elevation =     1.500(Ft.)
Slope =    0.00898  s(%)=       0.90
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    6.043 min.
Rainfall intensity =      5.827(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.893
Subarea runoff =      1.926(CFS)
Total initial stream area =        0.370(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.044(In/Hr)


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Process from Point/Station        1.070 to Point/Station        1.080
**** PIPEFLOW TRAVEL TIME (User specified size) ****
------------------------------------------------------------------------
Upstream point/station elevation =   626.200(Ft.)
Downstream point/station elevation =   625.400(Ft.)
Pipe length  =   161.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     1.926(CFS)
Given pipe size =     12.00(In.)
Calculated individual pipe flow  =     1.926(CFS)
Normal flow depth in pipe =    7.88(In.)
Flow top width inside pipe =   11.40(In.)
Critical Depth =    7.10(In.)
Pipe flow velocity =      3.52(Ft/s)
Travel time through pipe =    0.76 min.
Time of concentration (TC) =     6.80 min.


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Process from Point/Station        1.070 to Point/Station        1.080
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      0.370(Ac.)
Runoff from this stream =      1.926(CFS)
Time of concentration =    6.80 min.
Rainfall intensity =     5.426(In/Hr)
Area averaged loss rate (Fm) =    0.0440(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)   (Ac.)       (min) (In/Hr)     (In/Hr)


1      4.00     0.670      5.92    0.044      5.899
2      1.93     0.370      6.80    0.044      5.426
Qmax(1) =
           1.000 *    1.000 *     4.004) +
           1.088 *    0.870 *     1.926) + =       5.827
Qmax(2) =
           0.919 *    1.000 *     4.004) +
           1.000 *    1.000 *     1.926) + =       5.607

Total of 2 main streams to confluence:
Flow rates before confluence point:
       5.004       2.926
Maximum flow rates at confluence using above data:
        5.827        5.607
Area of streams before confluence:
        0.670        0.370
Effective area values after confluence:
        0.992        1.040


Results of confluence:
Total flow rate =      5.827(CFS)
Time of concentration =     5.921 min.
Effective stream area after confluence  =      0.992(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.044(In/Hr)
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Study area total =       1.04(Ac.)


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Process from Point/Station        1.080 to Point/Station        1.110
**** PIPEFLOW TRAVEL TIME (User specified size) ****
________________________________________________________________________
Upstream point/station elevation =   625.400(Ft.)
Downstream point/station elevation =   625.000(Ft.)
Pipe length  =    41.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     5.827(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =     5.827(CFS)
Normal flow depth in pipe =    9.64(In.)
Flow top width inside pipe =   17.95(In.)
Critical Depth =   11.18(In.)
Pipe flow velocity =      6.04(Ft/s)
Travel time through pipe =    0.11 min.
Time of concentration (TC) =     6.03 min.


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Process from Point/Station        1.080 to Point/Station        1.110
**** CONFLUENCE OF MAIN STREAMS ****
________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =      0.992(Ac.)
Runoff from this stream =      5.827(CFS)
Time of concentration =    6.03 min.
Rainfall intensity =     5.832(In/Hr)
Area averaged loss rate (Fm) =    0.0440(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.090 to Point/Station        1.100
**** INITIAL AREA EVALUATION ****
________________________________________________________________________
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Adjusted SCS curve number for AMC 3 = 75.80
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.044(In/Hr)
Initial subarea data:
Initial area flow distance =   411.000(Ft.)
Top (of initial area) elevation =   637.800(Ft.)
Bottom (of initial area) elevation =   634.300(Ft.)
Difference in elevation =     3.500(Ft.)
Slope =    0.00852  s(%)=       0.85
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    8.757 min.
Rainfall intensity =      4.664(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.892
Subarea runoff =      6.529(CFS)
Total initial stream area =        1.570(Ac.)
Pervious area fraction = 0.100
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Initial area Fm value =    0.044(In/Hr)


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Process from Point/Station        1.100 to Point/Station        1.110
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =   625.100(Ft.)
Downstream point/station elevation =   625.000(Ft.)
Pipe length  =    16.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     6.529(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =     6.529(CFS)
Normal flow depth in pipe =   12.02(In.)
Flow top width inside pipe =   16.95(In.)
Critical Depth =   11.85(In.)
Pipe flow velocity =      5.20(Ft/s)
Travel time through pipe =    0.05 min.
Time of concentration (TC) =     8.81 min.


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Process from Point/Station        1.100 to Point/Station        1.110
**** CONFLUENCE OF MAIN STREAMS ****
______________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      1.570(Ac.)
Runoff from this stream =      6.529(CFS)
Time of concentration =    8.81 min.
Rainfall intensity =     4.648(In/Hr)
Area averaged loss rate (Fm) =    0.0440(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)   (Ac.)       (min) (In/Hr)     (In/Hr)


1      5.83     0.992      6.03    0.044      5.832
2      6.53     1.570      8.81    0.044      4.648
Qmax(1) =
           1.000 *    1.000 *     5.827) +
           1.257 *    0.685 *     6.529) + =      11.449
Qmax(2) =
           0.795 *    1.000 *     5.827) +
           1.000 *    1.000 *     6.529) + =      11.163

Total of 2 main streams to confluence:
Flow rates before confluence point:
       6.827       7.529
Maximum flow rates at confluence using above data:
       11.449       11.163
Area of streams before confluence:
        0.992        1.570
Effective area values after confluence:
        2.067        2.562


Results of confluence:
Total flow rate =     11.449(CFS)
```

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Time of concentration =     6.034 min.
Effective stream area after confluence  =      2.067(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.044(In/Hr)
Study area total =       2.56(Ac.)


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Process from Point/Station        1.110 to Point/Station        1.140
**** PIPEFLOW TRAVEL TIME (User specified size) ****
________________________________________________________________________
Upstream point/station elevation =   625.000(Ft.)
Downstream point/station elevation =   624.200(Ft.)
Pipe length  =   148.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    11.449(CFS)
Given pipe size =     24.00(In.)
Calculated individual pipe flow  =    11.449(CFS)
Normal flow depth in pipe =   14.63(In.)
Flow top width inside pipe =   23.42(In.)
Critical Depth =   14.57(In.)
Pipe flow velocity =      5.71(Ft/s)
Travel time through pipe =    0.43 min.
Time of concentration (TC) =     6.47 min.


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Process from Point/Station        1.110 to Point/Station        1.140
**** CONFLUENCE OF MAIN STREAMS ****
________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =      2.067(Ac.)
Runoff from this stream =     11.449(CFS)
Time of concentration =    6.47 min.
Rainfall intensity =     5.595(In/Hr)
Area averaged loss rate (Fm) =    0.0440(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


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Process from Point/Station        1.120 to Point/Station        1.130
**** INITIAL AREA EVALUATION ****
________________________________________________________________________
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Adjusted SCS curve number for AMC 3 = 75.80
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.044(In/Hr)
Initial subarea data:
Initial area flow distance =   306.000(Ft.)
Top (of initial area) elevation =   635.800(Ft.)
Bottom (of initial area) elevation =   633.000(Ft.)
Difference in elevation =     2.800(Ft.)
Slope =    0.00915  s(%)=       0.92
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    7.671 min.
Rainfall intensity =      5.050(In/Hr) for a   100.0 year storm
```

```
Effective runoff coefficient used for area (Q=KCIA) is C = 0.892
Subarea runoff =      5.181(CFS)
Total initial stream area =        1.150(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.044(In/Hr)


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Process from Point/Station        1.130 to Point/Station        1.140
**** PIPEFLOW TRAVEL TIME (User specified size) ****
________________________________________________________________________
Upstream point/station elevation =   624.600(Ft.)
Downstream point/station elevation =   624.200(Ft.)
Pipe length  =    23.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     5.181(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =     5.181(CFS)
Normal flow depth in pipe =    7.63(In.)
Flow top width inside pipe =   17.79(In.)
Critical Depth =   10.52(In.)
Pipe flow velocity =      7.27(Ft/s)
Travel time through pipe =    0.05 min.
Time of concentration (TC) =     7.72 min.


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Process from Point/Station        1.130 to Point/Station        1.140
**** CONFLUENCE OF MAIN STREAMS ****
________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      1.150(Ac.)
Runoff from this stream =      5.181(CFS)
Time of concentration =    7.72 min.
Rainfall intensity =     5.029(In/Hr)
Area averaged loss rate (Fm) =    0.0440(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)   (Ac.)       (min) (In/Hr)     (In/Hr)


1     11.45     2.067      6.47    0.044      5.595
2      5.18     1.150      7.72    0.044      5.029
Qmax(1) =
           1.000 *    1.000 *    11.449) +
           1.114 *    0.837 *     5.181) + =      16.279
Qmax(2) =
           0.898 *    1.000 *    11.449) +
           1.000 *    1.000 *     5.181) + =      15.463

Total of 2 main streams to confluence:
Flow rates before confluence point:
      12.449       6.181
Maximum flow rates at confluence using above data:
       16.279       15.463
Area of streams before confluence:
        2.067        1.150
Effective area values after confluence:
        3.030        3.217
```

```
Results of confluence:
Total flow rate =     16.279(CFS)
Time of concentration =     6.466 min.
Effective stream area after confluence  =      3.030(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.044(In/Hr)
Study area total =       3.22(Ac.)


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Process from Point/Station        1.140 to Point/Station        1.170
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =   624.200(Ft.)
Downstream point/station elevation =   623.900(Ft.)
Pipe length  =   172.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    16.279(CFS)
Given pipe size =     30.00(In.)
Calculated individual pipe flow  =    16.279(CFS)
Normal flow depth in pipe =   23.34(In.)
Flow top width inside pipe =   24.93(In.)
Critical Depth =   16.36(In.)
Pipe flow velocity =      3.97(Ft/s)
Travel time through pipe =    0.72 min.
Time of concentration (TC) =     7.19 min.


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Process from Point/Station        1.140 to Point/Station        1.170
**** CONFLUENCE OF MAIN STREAMS ****
______________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =      3.030(Ac.)
Runoff from this stream =     16.279(CFS)
Time of concentration =    7.19 min.
Rainfall intensity =     5.251(In/Hr)
Area averaged loss rate (Fm) =    0.0440(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.150 to Point/Station        1.160
**** INITIAL AREA EVALUATION ****
______________________________________________________________________________
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Adjusted SCS curve number for AMC 3 = 75.80
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.044(In/Hr)
Initial subarea data:
Initial area flow distance =   191.000(Ft.)
Top (of initial area) elevation =   635.400(Ft.)
Bottom (of initial area) elevation =   633.600(Ft.)
Difference in elevation =     1.800(Ft.)
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```
Slope =    0.00942  s(%)=       0.94
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    6.316 min.
Rainfall intensity =      5.675(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.893
Subarea runoff =      1.115(CFS)
Total initial stream area =        0.220(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.044(In/Hr)


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Process from Point/Station        1.160 to Point/Station        1.170
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =   624.000(Ft.)
Downstream point/station elevation =   623.900(Ft.)
Pipe length  =    19.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     1.115(CFS)
Given pipe size =     12.00(In.)
Calculated individual pipe flow  =     1.115(CFS)
Normal flow depth in pipe =    5.51(In.)
Flow top width inside pipe =   11.96(In.)
Critical Depth =    5.33(In.)
Pipe flow velocity =      3.17(Ft/s)
Travel time through pipe =    0.10 min.
Time of concentration (TC) =     6.42 min.


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Process from Point/Station        1.160 to Point/Station        1.170
**** CONFLUENCE OF MAIN STREAMS ****
______________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      0.220(Ac.)
Runoff from this stream =      1.115(CFS)
Time of concentration =    6.42 min.
Rainfall intensity =     5.622(In/Hr)
Area averaged loss rate (Fm) =    0.0440(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)   (Ac.)       (min) (In/Hr)     (In/Hr)


1     16.28     3.030      7.19    0.044      5.251
2      1.11     0.220      6.42    0.044      5.622
Qmax(1) =
           1.000 *    1.000 *    16.279) +
           0.934 *    1.000 *     1.115) + =      17.320
Qmax(2) =
           1.071 *    0.893 *    16.279) +
           1.000 *    1.000 *     1.115) + =      16.679

Total of 2 main streams to confluence:
Flow rates before confluence point:
      17.279       2.115
Maximum flow rates at confluence using above data:
       17.320       16.679
```

```
Area of streams before confluence:
        3.030        0.220
Effective area values after confluence:
        3.250        2.924


Results of confluence:
Total flow rate =     17.320(CFS)
Time of concentration =     7.188 min.
Effective stream area after confluence  =      3.250(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.044(In/Hr)
Study area total =       3.25(Ac.)


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Process from Point/Station        1.170 to Point/Station        1.180
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =   623.900(Ft.)
Downstream point/station elevation =   623.800(Ft.)
Pipe length  =    13.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    17.320(CFS)
Given pipe size =     30.00(In.)
Calculated individual pipe flow  =    17.320(CFS)
Normal flow depth in pipe =   14.67(In.)
Flow top width inside pipe =   29.99(In.)
Critical Depth =   16.90(In.)
Pipe flow velocity =      7.26(Ft/s)
Travel time through pipe =    0.03 min.
Time of concentration (TC) =     7.22 min.


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Process from Point/Station        1.180 to Point/Station        1.190
**** IMPROVED CHANNEL TRAVEL TIME ****
______________________________________________________________________________
Covered channel
Upstream point elevation =   623.780(Ft.)
Downstream point elevation =   623.600(Ft.)
Channel length thru subarea  =    43.000(Ft.)
Channel base width      =    3.500(Ft.)
Slope or 'Z' of left channel bank =   0.000
Slope or 'Z' of right channel bank =   0.000
Manning's 'N'    = 0.013
Maximum depth of channel  =    1.000(Ft.)
Flow(q) thru subarea =     17.320(CFS)
Depth of flow =   0.932(Ft.), Average velocity =   5.309(Ft/s)
Channel flow top width =    3.500(Ft.)
Flow Velocity =    5.31(Ft/s)
Travel time  =    0.13 min.
Time of concentration =    7.35 min.
Critical depth =      0.914(Ft.)
End of computations, Total Study Area =            4.12 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.
Note: These figures do not consider reduced effective area
effects caused by confluences in the rational equation.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged SCS curve number =  56.0
```

San Bernardino County Rational Hydrology Program

(Hydrology Manual Date - August 1986)

CIVILCADD/CIVILDESIGN Engineering Software, (c) 1989-2014 Version 9.0
Rational Hydrology Study Date: 01/28/25

POST DEVELOPMENT RATIONAL METHOD
2-YEAR EVENT
4200001PROP02
FUSCOE ENGINEERING

Program License Serial Number 6103

********* Hydrology Study Control Information **********

Rational hydrology study storm event year is 2.0
Computed rainfall intensity:
Storm year = 2.00 1 hour rainfall = 0.586 (In.)
Slope used for rainfall intensity curve b = 0.6000
Soil antecedent moisture condition (AMC) = 1

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Process from Point/Station 1.010 to Point/Station 1.020
**** INITIAL AREA EVALUATION ****

COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2) = 56.00
Adjusted SCS curve number for AMC 1 = 36.00
Pervious ratio(Ap) = 0.1000 Max loss rate(Fm)= 0.095(In/Hr)
Initial subarea data:
Initial area flow distance = 114.000(Ft.)
Top (of initial area) elevation = 638.000(Ft.)
Bottom (of initial area) elevation = 636.500(Ft.)
Difference in elevation = 1.500(Ft.)
Slope = 0.01316 s(%)= 1.32
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 4.806 min.
Rainfall intensity = 2.665(In/Hr) for a 2.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.868
Subarea runoff = 0.879(CFS)
Total initial stream area = 0.380(Ac.)
Pervious area fraction = 0.100
Initial area Fm value = 0.095(In/Hr)

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Process from Point/Station 1.020 to Point/Station 1.050
**** PIPEFLOW TRAVEL TIME (User specified size) ****

Upstream point/station elevation = 626.800(Ft.)

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Downstream point/station elevation =   626.500(Ft.)
Pipe length  =    24.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     0.879(CFS)
Given pipe size =     12.00(In.)
Calculated individual pipe flow  =     0.879(CFS)
Normal flow depth in pipe =    3.83(In.)
Flow top width inside pipe =   11.19(In.)
Critical Depth =    4.71(In.)
Pipe flow velocity =      4.07(Ft/s)
Travel time through pipe =    0.10 min.
Time of concentration (TC) =     4.90 min.


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Process from Point/Station        1.020 to Point/Station        1.050
**** CONFLUENCE OF MAIN STREAMS ****
______________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =      0.380(Ac.)
Runoff from this stream =      0.879(CFS)
Time of concentration =    4.90 min.
Rainfall intensity =     2.633(In/Hr)
Area averaged loss rate (Fm) =    0.0951(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


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Process from Point/Station        1.030 to Point/Station        1.040
**** INITIAL AREA EVALUATION ****
______________________________________________________________________________
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Adjusted SCS curve number for AMC 1 = 36.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.095(In/Hr)
Initial subarea data:
Initial area flow distance =   192.000(Ft.)
Top (of initial area) elevation =   638.300(Ft.)
Bottom (of initial area) elevation =   637.300(Ft.)
Difference in elevation =     1.000(Ft.)
Slope =    0.00521  s(%)=       0.52
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    7.126 min.
Rainfall intensity =      2.104(In/Hr) for a     2.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.859
Subarea runoff =      0.778(CFS)
Total initial stream area =        0.430(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.095(In/Hr)


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Process from Point/Station        1.040 to Point/Station        1.050
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =   626.600(Ft.)
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Downstream point/station elevation =   626.500(Ft.)
Pipe length  =    24.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     0.778(CFS)
Given pipe size =     12.00(In.)
Calculated individual pipe flow  =     0.778(CFS)
Normal flow depth in pipe =    4.81(In.)
Flow top width inside pipe =   11.76(In.)
Critical Depth =    4.42(In.)
Pipe flow velocity =      2.64(Ft/s)
Travel time through pipe =    0.15 min.
Time of concentration (TC) =     7.28 min.


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Process from Point/Station        1.040 to Point/Station        1.050
**** CONFLUENCE OF MAIN STREAMS ****
________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      0.430(Ac.)
Runoff from this stream =      0.778(CFS)
Time of concentration =    7.28 min.
Rainfall intensity =     2.078(In/Hr)
Area averaged loss rate (Fm) =    0.0951(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)   (Ac.)       (min) (In/Hr)     (In/Hr)


1      0.88     0.380      4.90    0.095      2.633
2      0.78     0.430      7.28    0.095      2.078
Qmax(1) =
           1.000 *    1.000 *     0.879) +
           1.280 *    0.674 *     0.778) + =       1.550
Qmax(2) =
           0.781 *    1.000 *     0.879) +
           1.000 *    1.000 *     0.778) + =       1.464

Total of 2 main streams to confluence:
Flow rates before confluence point:
       1.879       1.778
Maximum flow rates at confluence using above data:
        1.550        1.464
Area of streams before confluence:
        0.380        0.430
Effective area values after confluence:
        0.670        0.810


Results of confluence:
Total flow rate =      1.550(CFS)
Time of concentration =     4.904 min.
Effective stream area after confluence  =      0.670(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.095(In/Hr)
Study area total =       0.81(Ac.)


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Process from Point/Station        1.050 to Point/Station        1.080
**** PIPEFLOW TRAVEL TIME (User specified size) ****
------------------------------------------------------------------------
Upstream point/station elevation =   626.500(Ft.)
Downstream point/station elevation =   625.400(Ft.)
Pipe length  =   253.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     1.550(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =     1.550(CFS)
Normal flow depth in pipe =    5.79(In.)
Flow top width inside pipe =   16.82(In.)
Critical Depth =    5.60(In.)
Pipe flow velocity =      3.16(Ft/s)
Travel time through pipe =    1.33 min.
Time of concentration (TC) =     6.24 min.


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Process from Point/Station        1.050 to Point/Station        1.080
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =      0.670(Ac.)
Runoff from this stream =      1.550(CFS)
Time of concentration =    6.24 min.
Rainfall intensity =     2.279(In/Hr)
Area averaged loss rate (Fm) =    0.0951(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


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Process from Point/Station        1.060 to Point/Station        1.070
**** INITIAL AREA EVALUATION ****
------------------------------------------------------------------------
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Adjusted SCS curve number for AMC 1 = 36.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.095(In/Hr)
Initial subarea data:
Initial area flow distance =   167.000(Ft.)
Top (of initial area) elevation =   636.700(Ft.)
Bottom (of initial area) elevation =   635.200(Ft.)
Difference in elevation =     1.500(Ft.)
Slope =    0.00898  s(%)=       0.90
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    6.043 min.
Rainfall intensity =      2.323(In/Hr) for a     2.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.863
Subarea runoff =      0.742(CFS)
Total initial stream area =        0.370(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.095(In/Hr)


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Process from Point/Station        1.070 to Point/Station        1.080
**** PIPEFLOW TRAVEL TIME (User specified size) ****
------------------------------------------------------------------------
Upstream point/station elevation =   626.200(Ft.)
Downstream point/station elevation =   625.400(Ft.)
Pipe length  =   161.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     0.742(CFS)
Given pipe size =     12.00(In.)
Calculated individual pipe flow  =     0.742(CFS)
Normal flow depth in pipe =    4.47(In.)
Flow top width inside pipe =   11.60(In.)
Critical Depth =    4.31(In.)
Pipe flow velocity =      2.78(Ft/s)
Travel time through pipe =    0.96 min.
Time of concentration (TC) =     7.01 min.


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Process from Point/Station        1.070 to Point/Station        1.080
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      0.370(Ac.)
Runoff from this stream =      0.742(CFS)
Time of concentration =    7.01 min.
Rainfall intensity =     2.125(In/Hr)
Area averaged loss rate (Fm) =    0.0951(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)   (Ac.)       (min) (In/Hr)     (In/Hr)


1      1.55     0.670      6.24    0.095      2.279
2      0.74     0.370      7.01    0.095      2.125
Qmax(1) =
           1.000 *    1.000 *     1.550) +
           1.076 *    0.890 *     0.742) + =       2.260
Qmax(2) =
           0.930 *    1.000 *     1.550) +
           1.000 *    1.000 *     0.742) + =       2.183

Total of 2 main streams to confluence:
Flow rates before confluence point:
       2.550       1.742
Maximum flow rates at confluence using above data:
        2.260        2.183
Area of streams before confluence:
        0.670        0.370
Effective area values after confluence:
        0.999        1.040


Results of confluence:
Total flow rate =      2.260(CFS)
Time of concentration =     6.239 min.
Effective stream area after confluence  =      0.999(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.095(In/Hr)
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Study area total =       1.04(Ac.)


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Process from Point/Station        1.080 to Point/Station        1.110
**** PIPEFLOW TRAVEL TIME (User specified size) ****
________________________________________________________________________
Upstream point/station elevation =   625.400(Ft.)
Downstream point/station elevation =   625.000(Ft.)
Pipe length  =    41.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     2.260(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =     2.260(CFS)
Normal flow depth in pipe =    5.71(In.)
Flow top width inside pipe =   16.75(In.)
Critical Depth =    6.82(In.)
Pipe flow velocity =      4.70(Ft/s)
Travel time through pipe =    0.15 min.
Time of concentration (TC) =     6.38 min.


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Process from Point/Station        1.080 to Point/Station        1.110
**** CONFLUENCE OF MAIN STREAMS ****
________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =      0.999(Ac.)
Runoff from this stream =      2.260(CFS)
Time of concentration =    6.38 min.
Rainfall intensity =     2.248(In/Hr)
Area averaged loss rate (Fm) =    0.0951(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


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Process from Point/Station        1.090 to Point/Station        1.100
**** INITIAL AREA EVALUATION ****
________________________________________________________________________
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Adjusted SCS curve number for AMC 1 = 36.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.095(In/Hr)
Initial subarea data:
Initial area flow distance =   411.000(Ft.)
Top (of initial area) elevation =   637.800(Ft.)
Bottom (of initial area) elevation =   634.300(Ft.)
Difference in elevation =     3.500(Ft.)
Slope =    0.00852  s(%)=       0.85
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    8.757 min.
Rainfall intensity =      1.859(In/Hr) for a     2.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.854
Subarea runoff =      2.493(CFS)
Total initial stream area =        1.570(Ac.)
Pervious area fraction = 0.100
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Initial area Fm value =    0.095(In/Hr)


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Process from Point/Station        1.100 to Point/Station        1.110
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =   625.100(Ft.)
Downstream point/station elevation =   625.000(Ft.)
Pipe length  =    16.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     2.493(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =     2.493(CFS)
Normal flow depth in pipe =    6.76(In.)
Flow top width inside pipe =   17.43(In.)
Critical Depth =    7.17(In.)
Pipe flow velocity =      4.11(Ft/s)
Travel time through pipe =    0.06 min.
Time of concentration (TC) =     8.82 min.


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Process from Point/Station        1.100 to Point/Station        1.110
**** CONFLUENCE OF MAIN STREAMS ****
______________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      1.570(Ac.)
Runoff from this stream =      2.493(CFS)
Time of concentration =    8.82 min.
Rainfall intensity =     1.851(In/Hr)
Area averaged loss rate (Fm) =    0.0951(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)   (Ac.)       (min) (In/Hr)     (In/Hr)


1      2.26     0.999      6.38    0.095      2.248
2      2.49     1.570      8.82    0.095      1.851
Qmax(1) =
           1.000 *    1.000 *     2.260) +
           1.226 *    0.724 *     2.493) + =       4.471
Qmax(2) =
           0.816 *    1.000 *     2.260) +
           1.000 *    1.000 *     2.493) + =       4.337

Total of 2 main streams to confluence:
Flow rates before confluence point:
       3.260       3.493
Maximum flow rates at confluence using above data:
        4.471        4.337
Area of streams before confluence:
        0.999        1.570
Effective area values after confluence:
        2.135        2.569


Results of confluence:
Total flow rate =      4.471(CFS)
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Time of concentration =     6.385 min.
Effective stream area after confluence  =      2.135(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.095(In/Hr)
Study area total =       2.57(Ac.)


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Process from Point/Station        1.110 to Point/Station        1.140
**** PIPEFLOW TRAVEL TIME (User specified size) ****
________________________________________________________________________
Upstream point/station elevation =   625.000(Ft.)
Downstream point/station elevation =   624.200(Ft.)
Pipe length  =   148.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     4.471(CFS)
Given pipe size =     24.00(In.)
Calculated individual pipe flow  =     4.471(CFS)
Normal flow depth in pipe =    8.50(In.)
Flow top width inside pipe =   22.95(In.)
Critical Depth =    8.91(In.)
Pipe flow velocity =      4.49(Ft/s)
Travel time through pipe =    0.55 min.
Time of concentration (TC) =     6.93 min.


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Process from Point/Station        1.110 to Point/Station        1.140
**** CONFLUENCE OF MAIN STREAMS ****
________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =      2.135(Ac.)
Runoff from this stream =      4.471(CFS)
Time of concentration =    6.93 min.
Rainfall intensity =     2.139(In/Hr)
Area averaged loss rate (Fm) =    0.0951(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


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Process from Point/Station        1.120 to Point/Station        1.130
**** INITIAL AREA EVALUATION ****
________________________________________________________________________
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Adjusted SCS curve number for AMC 1 = 36.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.095(In/Hr)
Initial subarea data:
Initial area flow distance =   306.000(Ft.)
Top (of initial area) elevation =   635.800(Ft.)
Bottom (of initial area) elevation =   633.000(Ft.)
Difference in elevation =     2.800(Ft.)
Slope =    0.00915  s(%)=       0.92
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    7.671 min.
Rainfall intensity =      2.013(In/Hr) for a     2.0 year storm
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Effective runoff coefficient used for area (Q=KCIA) is C = 0.857
Subarea runoff =      1.985(CFS)
Total initial stream area =        1.150(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.095(In/Hr)


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Process from Point/Station        1.130 to Point/Station        1.140
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =   624.600(Ft.)
Downstream point/station elevation =   624.200(Ft.)
Pipe length  =    23.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     1.985(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =     1.985(CFS)
Normal flow depth in pipe =    4.61(In.)
Flow top width inside pipe =   15.71(In.)
Critical Depth =    6.37(In.)
Pipe flow velocity =      5.57(Ft/s)
Travel time through pipe =    0.07 min.
Time of concentration (TC) =     7.74 min.


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Process from Point/Station        1.130 to Point/Station        1.140
**** CONFLUENCE OF MAIN STREAMS ****
______________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      1.150(Ac.)
Runoff from this stream =      1.985(CFS)
Time of concentration =    7.74 min.
Rainfall intensity =     2.002(In/Hr)
Area averaged loss rate (Fm) =    0.0951(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)   (Ac.)       (min) (In/Hr)     (In/Hr)


1      4.47     2.135      6.93    0.095      2.139
2      1.99     1.150      7.74    0.095      2.002
Qmax(1) =
           1.000 *    1.000 *     4.471) +
           1.072 *    0.896 *     1.985) + =       6.377
Qmax(2) =
           0.933 *    1.000 *     4.471) +
           1.000 *    1.000 *     1.985) + =       6.158

Total of 2 main streams to confluence:
Flow rates before confluence point:
       5.471       2.985
Maximum flow rates at confluence using above data:
        6.377        6.158
Area of streams before confluence:
        2.135        1.150
Effective area values after confluence:
        3.166        3.285
```

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Results of confluence:
Total flow rate =      6.377(CFS)
Time of concentration =     6.934 min.
Effective stream area after confluence  =      3.166(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.095(In/Hr)
Study area total =       3.29(Ac.)


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Process from Point/Station        1.140 to Point/Station        1.170
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =   624.200(Ft.)
Downstream point/station elevation =   623.900(Ft.)
Pipe length  =   172.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     6.377(CFS)
Given pipe size =     30.00(In.)
Calculated individual pipe flow  =     6.377(CFS)
Normal flow depth in pipe =   12.68(In.)
Flow top width inside pipe =   29.64(In.)
Critical Depth =   10.03(In.)
Pipe flow velocity =      3.23(Ft/s)
Travel time through pipe =    0.89 min.
Time of concentration (TC) =     7.82 min.


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Process from Point/Station        1.140 to Point/Station        1.170
**** CONFLUENCE OF MAIN STREAMS ****
______________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =      3.166(Ac.)
Runoff from this stream =      6.377(CFS)
Time of concentration =    7.82 min.
Rainfall intensity =     1.990(In/Hr)
Area averaged loss rate (Fm) =    0.0951(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


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Process from Point/Station        1.150 to Point/Station        1.160
**** INITIAL AREA EVALUATION ****
______________________________________________________________________________
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Adjusted SCS curve number for AMC 1 = 36.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.095(In/Hr)
Initial subarea data:
Initial area flow distance =   191.000(Ft.)
Top (of initial area) elevation =   635.400(Ft.)
Bottom (of initial area) elevation =   633.600(Ft.)
Difference in elevation =     1.800(Ft.)
```

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Slope =    0.00942  s(%)=       0.94
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    6.316 min.
Rainfall intensity =      2.262(In/Hr) for a     2.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.862
Subarea runoff =      0.429(CFS)
Total initial stream area =        0.220(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.095(In/Hr)


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Process from Point/Station        1.160 to Point/Station        1.170
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =   624.000(Ft.)
Downstream point/station elevation =   623.900(Ft.)
Pipe length  =    19.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     0.429(CFS)
Given pipe size =     12.00(In.)
Calculated individual pipe flow  =     0.429(CFS)
Normal flow depth in pipe =    3.30(In.)
Flow top width inside pipe =   10.72(In.)
Critical Depth =    3.24(In.)
Pipe flow velocity =      2.44(Ft/s)
Travel time through pipe =    0.13 min.
Time of concentration (TC) =     6.45 min.


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Process from Point/Station        1.160 to Point/Station        1.170
**** CONFLUENCE OF MAIN STREAMS ****
______________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      0.220(Ac.)
Runoff from this stream =      0.429(CFS)
Time of concentration =    6.45 min.
Rainfall intensity =     2.235(In/Hr)
Area averaged loss rate (Fm) =    0.0951(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)   (Ac.)       (min) (In/Hr)     (In/Hr)


1      6.38     3.166      7.82    0.095      1.990
2      0.43     0.220      6.45    0.095      2.235
Qmax(1) =
           1.000 *    1.000 *     6.377) +
           0.886 *    1.000 *     0.429) + =       6.757
Qmax(2) =
           1.129 *    0.824 *     6.377) +
           1.000 *    1.000 *     0.429) + =       6.364

Total of 2 main streams to confluence:
Flow rates before confluence point:
       7.377       1.429
Maximum flow rates at confluence using above data:
        6.757        6.364
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Area of streams before confluence:
        3.166        0.220
Effective area values after confluence:
        3.386        2.829


Results of confluence:
Total flow rate =      6.757(CFS)
Time of concentration =     7.821 min.
Effective stream area after confluence  =      3.386(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.095(In/Hr)
Study area total =       3.39(Ac.)


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Process from Point/Station        1.170 to Point/Station        1.180
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =   623.900(Ft.)
Downstream point/station elevation =   623.800(Ft.)
Pipe length  =    13.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     6.757(CFS)
Given pipe size =     30.00(In.)
Calculated individual pipe flow  =     6.757(CFS)
Normal flow depth in pipe =    8.81(In.)
Flow top width inside pipe =   27.33(In.)
Critical Depth =   10.34(In.)
Pipe flow velocity =      5.62(Ft/s)
Travel time through pipe =    0.04 min.
Time of concentration (TC) =     7.86 min.


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Process from Point/Station        1.180 to Point/Station        1.190
**** IMPROVED CHANNEL TRAVEL TIME ****
______________________________________________________________________________
Covered channel
Upstream point elevation =   623.780(Ft.)
Downstream point elevation =   623.600(Ft.)
Channel length thru subarea  =    43.000(Ft.)
Channel base width      =    3.500(Ft.)
Slope or 'Z' of left channel bank =   0.000
Slope or 'Z' of right channel bank =   0.000
Manning's 'N'    = 0.013
Maximum depth of channel  =    1.000(Ft.)
Flow(q) thru subarea =      6.757(CFS)
Depth of flow =   0.493(Ft.), Average velocity =   3.913(Ft/s)
Channel flow top width =    3.500(Ft.)
Flow Velocity =    3.91(Ft/s)
Travel time  =    0.18 min.
Time of concentration =    8.04 min.
Critical depth =      0.484(Ft.)
End of computations, Total Study Area =            4.12 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.
Note: These figures do not consider reduced effective area
effects caused by confluences in the rational equation.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged SCS curve number =  56.0
```

APPENDIX 4

UNIT HYDROGRAPH METHOD
PRE AND POST DEVELOPMENT (Q2)
24 HOUR DURATION

U n i t H y d r o g r a p h A n a l y s i s

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Study date 01/24/25

++

San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6103

UNIT HYDROGRAPH METHOD
2-YEAR PREDEVELOPMENT
4200001UHEX02
FUSCOE ENGINEERING

Storm Event Year = 2

Antecedent Moisture Condition = 1

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 2		
4.12	1	0.59
Rainfall data for year 2		
4.12	6	1.55
Rainfall data for year 2		
4.12	24	2.68

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 1)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
80.0	63.0	4.12	1.000	0.637	0.960	0.612

Area-averaged adjusted loss rate Fm (In/Hr) = 0.612

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC1)	S	Pervious Yield Fr
3.96	0.960	80.0	63.0	5.87	0.115
0.16	0.040	98.0	98.0	0.20	0.914

Area-averaged catchment yield fraction, Y = 0.147
Area-averaged low loss fraction, Yb = 0.853
User entry of time of concentration = 0.263 (hours)
++
Watershed area = 4.12(Ac.)
Catchment Lag time = 0.210 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 39.6825
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.612(In/Hr)
Average low loss rate fraction (Yb) = 0.853 (decimal)
VALLEY DEVELOPED S-Graph proportion = 0.043
VALLEY UNDEVELOPED S-Graph proportion = 0.957
FOOTHILL S-Graph proportion = 0.000
MOUNTAIN S-Graph proportion = 0.000
DESERT S-Graph proportion = 0.000

Computed peak 5-minute rainfall = 0.217(In)
Computed peak 30-minute rainfall = 0.444(In)
Specified peak 1-hour rainfall = 0.586(In)
Computed peak 3-hour rainfall = 1.064(In)
Specified peak 6-hour rainfall = 1.550(In)
Specified peak 24-hour rainfall = 2.680(In)

Rainfall depth area reduction factors:
Using a total area of 4.12(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.217(In)
30-minute factor = 1.000 Adjusted rainfall = 0.444(In)
1-hour factor = 1.000 Adjusted rainfall = 0.586(In)
3-hour factor = 1.000 Adjusted rainfall = 1.064(In)
6-hour factor = 1.000 Adjusted rainfall = 1.550(In)
24-hour factor = 1.000 Adjusted rainfall = 2.680(In)

U n i t H y d r o g r a p h
++

Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
	(K = 49.83 (CFS))	
1	4.248	2.117
2	21.828	8.759
3	48.538	13.309
4	66.607	9.003
5	75.434	4.398
6	80.852	2.700
7	84.789	1.961
8	87.793	1.497
9	90.170	1.184
10	92.045	0.934
11	93.523	0.736
12	94.723	0.598

13	95.842	0.558
14	96.731	0.443
15	97.471	0.369
16	98.096	0.311
17	98.599	0.251
18	98.990	0.195
19	99.370	0.189
20	99.749	0.189
21	100.000	0.125

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.2168	0.2168
2	0.2861	0.0693
3	0.3365	0.0504
4	0.3775	0.0410
5	0.4128	0.0352
6	0.4440	0.0312
7	0.4723	0.0282
8	0.4982	0.0259
9	0.5222	0.0240
10	0.5447	0.0225
11	0.5658	0.0212
12	0.5859	0.0200
13	0.6119	0.0260
14	0.6370	0.0251
15	0.6614	0.0243
16	0.6849	0.0236
17	0.7079	0.0229
18	0.7302	0.0223
19	0.7519	0.0218
20	0.7732	0.0212
21	0.7939	0.0208
22	0.8143	0.0203
23	0.8341	0.0199
24	0.8536	0.0195
25	0.8728	0.0191
26	0.8916	0.0188
27	0.9100	0.0185
28	0.9282	0.0182
29	0.9460	0.0179
30	0.9636	0.0176
31	0.9809	0.0173
32	0.9980	0.0171
33	1.0148	0.0168
34	1.0314	0.0166
35	1.0478	0.0164
36	1.0639	0.0162
37	1.0798	0.0159
38	1.0956	0.0157
39	1.1112	0.0156
40	1.1265	0.0154
41	1.1417	0.0152
42	1.1568	0.0150
43	1.1716	0.0149
44	1.1864	0.0147
45	1.2009	0.0146
46	1.2153	0.0144
47	1.2296	0.0143
48	1.2437	0.0141
49	1.2577	0.0140

50	1.2716	0.0139
51	1.2854	0.0137
52	1.2990	0.0136
53	1.3125	0.0135
54	1.3259	0.0134
55	1.3391	0.0133
56	1.3523	0.0132
57	1.3654	0.0131
58	1.3783	0.0130
59	1.3912	0.0129
60	1.4039	0.0128
61	1.4166	0.0127
62	1.4291	0.0126
63	1.4416	0.0125
64	1.4540	0.0124
65	1.4663	0.0123
66	1.4785	0.0122
67	1.4906	0.0121
68	1.5026	0.0120
69	1.5146	0.0120
70	1.5265	0.0119
71	1.5383	0.0118
72	1.5500	0.0117
73	1.5584	0.0085
74	1.5668	0.0084
75	1.5752	0.0083
76	1.5834	0.0083
77	1.5916	0.0082
78	1.5998	0.0081
79	1.6078	0.0081
80	1.6158	0.0080
81	1.6238	0.0079
82	1.6317	0.0079
83	1.6395	0.0078
84	1.6473	0.0078
85	1.6550	0.0077
86	1.6627	0.0077
87	1.6703	0.0076
88	1.6778	0.0076
89	1.6853	0.0075
90	1.6928	0.0075
91	1.7002	0.0074
92	1.7076	0.0074
93	1.7149	0.0073
94	1.7221	0.0073
95	1.7293	0.0072
96	1.7365	0.0072
97	1.7436	0.0071
98	1.7507	0.0071
99	1.7577	0.0070
100	1.7647	0.0070
101	1.7717	0.0069
102	1.7786	0.0069
103	1.7855	0.0069
104	1.7923	0.0068
105	1.7991	0.0068
106	1.8058	0.0067
107	1.8125	0.0067
108	1.8192	0.0067
109	1.8258	0.0066
110	1.8324	0.0066

111	1.8390	0.0066
112	1.8455	0.0065
113	1.8520	0.0065
114	1.8585	0.0065
115	1.8649	0.0064
116	1.8713	0.0064
117	1.8776	0.0064
118	1.8840	0.0063
119	1.8902	0.0063
120	1.8965	0.0063
121	1.9027	0.0062
122	1.9089	0.0062
123	1.9151	0.0062
124	1.9212	0.0061
125	1.9273	0.0061
126	1.9334	0.0061
127	1.9395	0.0060
128	1.9455	0.0060
129	1.9515	0.0060
130	1.9574	0.0060
131	1.9634	0.0059
132	1.9693	0.0059
133	1.9751	0.0059
134	1.9810	0.0059
135	1.9868	0.0058
136	1.9926	0.0058
137	1.9984	0.0058
138	2.0041	0.0057
139	2.0099	0.0057
140	2.0156	0.0057
141	2.0212	0.0057
142	2.0269	0.0057
143	2.0325	0.0056
144	2.0381	0.0056
145	2.0437	0.0056
146	2.0493	0.0056
147	2.0548	0.0055
148	2.0603	0.0055
149	2.0658	0.0055
150	2.0712	0.0055
151	2.0767	0.0054
152	2.0821	0.0054
153	2.0875	0.0054
154	2.0929	0.0054
155	2.0982	0.0054
156	2.1036	0.0053
157	2.1089	0.0053
158	2.1142	0.0053
159	2.1195	0.0053
160	2.1247	0.0053
161	2.1300	0.0052
162	2.1352	0.0052
163	2.1404	0.0052
164	2.1456	0.0052
165	2.1507	0.0052
166	2.1558	0.0051
167	2.1610	0.0051
168	2.1661	0.0051
169	2.1712	0.0051
170	2.1762	0.0051
171	2.1813	0.0050

172	2.1863	0.0050
173	2.1913	0.0050
174	2.1963	0.0050
175	2.2013	0.0050
176	2.2062	0.0050
177	2.2112	0.0049
178	2.2161	0.0049
179	2.2210	0.0049
180	2.2259	0.0049
181	2.2308	0.0049
182	2.2356	0.0049
183	2.2405	0.0048
184	2.2453	0.0048
185	2.2501	0.0048
186	2.2549	0.0048
187	2.2597	0.0048
188	2.2645	0.0048
189	2.2692	0.0048
190	2.2740	0.0047
191	2.2787	0.0047
192	2.2834	0.0047
193	2.2881	0.0047
194	2.2927	0.0047
195	2.2974	0.0047
196	2.3021	0.0046
197	2.3067	0.0046
198	2.3113	0.0046
199	2.3159	0.0046
200	2.3205	0.0046
201	2.3251	0.0046
202	2.3296	0.0046
203	2.3342	0.0045
204	2.3387	0.0045
205	2.3432	0.0045
206	2.3477	0.0045
207	2.3522	0.0045
208	2.3567	0.0045
209	2.3612	0.0045
210	2.3657	0.0045
211	2.3701	0.0044
212	2.3745	0.0044
213	2.3789	0.0044
214	2.3833	0.0044
215	2.3877	0.0044
216	2.3921	0.0044
217	2.3965	0.0044
218	2.4008	0.0044
219	2.4052	0.0043
220	2.4095	0.0043
221	2.4138	0.0043
222	2.4182	0.0043
223	2.4224	0.0043
224	2.4267	0.0043
225	2.4310	0.0043
226	2.4353	0.0043
227	2.4395	0.0043
228	2.4438	0.0042
229	2.4480	0.0042
230	2.4522	0.0042
231	2.4564	0.0042
232	2.4606	0.0042

233	2.4648	0.0042	
234	2.4690	0.0042	
235	2.4731	0.0042	
236	2.4773	0.0042	
237	2.4814	0.0041	
238	2.4855	0.0041	
239	2.4897	0.0041	
240	2.4938	0.0041	
241	2.4979	0.0041	
242	2.5020	0.0041	
243	2.5060	0.0041	
244	2.5101	0.0041	
245	2.5142	0.0041	
246	2.5182	0.0040	
247	2.5223	0.0040	
248	2.5263	0.0040	
249	2.5303	0.0040	
250	2.5343	0.0040	
251	2.5383	0.0040	
252	2.5423	0.0040	
253	2.5463	0.0040	
254	2.5502	0.0040	
255	2.5542	0.0040	
256	2.5582	0.0040	
257	2.5621	0.0039	
258	2.5660	0.0039	
259	2.5700	0.0039	
260	2.5739	0.0039	
261	2.5778	0.0039	
262	2.5817	0.0039	
263	2.5856	0.0039	
264	2.5894	0.0039	
265	2.5933	0.0039	
266	2.5972	0.0039	
267	2.6010	0.0039	
268	2.6049	0.0038	
269	2.6087	0.0038	
270	2.6125	0.0038	
271	2.6163	0.0038	
272	2.6202	0.0038	
273	2.6240	0.0038	
274	2.6278	0.0038	
275	2.6315	0.0038	
276	2.6353	0.0038	
277	2.6391	0.0038	
278	2.6428	0.0038	
279	2.6466	0.0038	
280	2.6503	0.0037	
281	2.6541	0.0037	
282	2.6578	0.0037	
283	2.6615	0.0037	
284	2.6652	0.0037	
285	2.6689	0.0037	
286	2.6726	0.0037	
287	2.6763	0.0037	
288	2.6800	0.0037	

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)

1	0.0037	0.0031	0.0005
2	0.0037	0.0031	0.0005
3	0.0037	0.0032	0.0005
4	0.0037	0.0032	0.0005
5	0.0037	0.0032	0.0005
6	0.0037	0.0032	0.0005
7	0.0038	0.0032	0.0005
8	0.0038	0.0032	0.0006
9	0.0038	0.0032	0.0006
10	0.0038	0.0032	0.0006
11	0.0038	0.0032	0.0006
12	0.0038	0.0033	0.0006
13	0.0038	0.0033	0.0006
14	0.0038	0.0033	0.0006
15	0.0039	0.0033	0.0006
16	0.0039	0.0033	0.0006
17	0.0039	0.0033	0.0006
18	0.0039	0.0033	0.0006
19	0.0039	0.0033	0.0006
20	0.0039	0.0033	0.0006
21	0.0039	0.0034	0.0006
22	0.0039	0.0034	0.0006
23	0.0040	0.0034	0.0006
24	0.0040	0.0034	0.0006
25	0.0040	0.0034	0.0006
26	0.0040	0.0034	0.0006
27	0.0040	0.0034	0.0006
28	0.0040	0.0034	0.0006
29	0.0040	0.0035	0.0006
30	0.0041	0.0035	0.0006
31	0.0041	0.0035	0.0006
32	0.0041	0.0035	0.0006
33	0.0041	0.0035	0.0006
34	0.0041	0.0035	0.0006
35	0.0041	0.0035	0.0006
36	0.0042	0.0035	0.0006
37	0.0042	0.0036	0.0006
38	0.0042	0.0036	0.0006
39	0.0042	0.0036	0.0006
40	0.0042	0.0036	0.0006
41	0.0042	0.0036	0.0006
42	0.0043	0.0036	0.0006
43	0.0043	0.0036	0.0006
44	0.0043	0.0037	0.0006
45	0.0043	0.0037	0.0006
46	0.0043	0.0037	0.0006
47	0.0043	0.0037	0.0006
48	0.0044	0.0037	0.0006
49	0.0044	0.0037	0.0006
50	0.0044	0.0037	0.0006
51	0.0044	0.0038	0.0006
52	0.0044	0.0038	0.0006
53	0.0045	0.0038	0.0007
54	0.0045	0.0038	0.0007
55	0.0045	0.0038	0.0007
56	0.0045	0.0038	0.0007
57	0.0045	0.0039	0.0007
58	0.0045	0.0039	0.0007
59	0.0046	0.0039	0.0007
60	0.0046	0.0039	0.0007
61	0.0046	0.0039	0.0007

62	0.0046	0.0040	0.0007
63	0.0047	0.0040	0.0007
64	0.0047	0.0040	0.0007
65	0.0047	0.0040	0.0007
66	0.0047	0.0040	0.0007
67	0.0048	0.0041	0.0007
68	0.0048	0.0041	0.0007
69	0.0048	0.0041	0.0007
70	0.0048	0.0041	0.0007
71	0.0048	0.0041	0.0007
72	0.0049	0.0041	0.0007
73	0.0049	0.0042	0.0007
74	0.0049	0.0042	0.0007
75	0.0049	0.0042	0.0007
76	0.0050	0.0042	0.0007
77	0.0050	0.0043	0.0007
78	0.0050	0.0043	0.0007
79	0.0050	0.0043	0.0007
80	0.0051	0.0043	0.0007
81	0.0051	0.0044	0.0007
82	0.0051	0.0044	0.0008
83	0.0052	0.0044	0.0008
84	0.0052	0.0044	0.0008
85	0.0052	0.0045	0.0008
86	0.0052	0.0045	0.0008
87	0.0053	0.0045	0.0008
88	0.0053	0.0045	0.0008
89	0.0053	0.0046	0.0008
90	0.0054	0.0046	0.0008
91	0.0054	0.0046	0.0008
92	0.0054	0.0046	0.0008
93	0.0055	0.0047	0.0008
94	0.0055	0.0047	0.0008
95	0.0055	0.0047	0.0008
96	0.0056	0.0047	0.0008
97	0.0056	0.0048	0.0008
98	0.0056	0.0048	0.0008
99	0.0057	0.0048	0.0008
100	0.0057	0.0049	0.0008
101	0.0057	0.0049	0.0008
102	0.0058	0.0049	0.0008
103	0.0058	0.0050	0.0009
104	0.0059	0.0050	0.0009
105	0.0059	0.0050	0.0009
106	0.0059	0.0051	0.0009
107	0.0060	0.0051	0.0009
108	0.0060	0.0051	0.0009
109	0.0061	0.0052	0.0009
110	0.0061	0.0052	0.0009
111	0.0062	0.0053	0.0009
112	0.0062	0.0053	0.0009
113	0.0063	0.0053	0.0009
114	0.0063	0.0054	0.0009
115	0.0064	0.0054	0.0009
116	0.0064	0.0055	0.0009
117	0.0065	0.0055	0.0009
118	0.0065	0.0055	0.0010
119	0.0066	0.0056	0.0010
120	0.0066	0.0056	0.0010
121	0.0067	0.0057	0.0010
122	0.0067	0.0057	0.0010

123	0.0068	0.0058	0.0010
124	0.0068	0.0058	0.0010
125	0.0069	0.0059	0.0010
126	0.0069	0.0059	0.0010
127	0.0070	0.0060	0.0010
128	0.0071	0.0060	0.0010
129	0.0072	0.0061	0.0011
130	0.0072	0.0062	0.0011
131	0.0073	0.0062	0.0011
132	0.0074	0.0063	0.0011
133	0.0075	0.0064	0.0011
134	0.0075	0.0064	0.0011
135	0.0076	0.0065	0.0011
136	0.0077	0.0065	0.0011
137	0.0078	0.0066	0.0011
138	0.0078	0.0067	0.0011
139	0.0079	0.0068	0.0012
140	0.0080	0.0068	0.0012
141	0.0081	0.0069	0.0012
142	0.0082	0.0070	0.0012
143	0.0083	0.0071	0.0012
144	0.0084	0.0072	0.0012
145	0.0117	0.0100	0.0017
146	0.0118	0.0101	0.0017
147	0.0120	0.0102	0.0018
148	0.0120	0.0103	0.0018
149	0.0122	0.0104	0.0018
150	0.0123	0.0105	0.0018
151	0.0125	0.0106	0.0018
152	0.0126	0.0107	0.0018
153	0.0128	0.0109	0.0019
154	0.0129	0.0110	0.0019
155	0.0131	0.0111	0.0019
156	0.0132	0.0112	0.0019
157	0.0134	0.0114	0.0020
158	0.0135	0.0115	0.0020
159	0.0137	0.0117	0.0020
160	0.0139	0.0118	0.0020
161	0.0141	0.0121	0.0021
162	0.0143	0.0122	0.0021
163	0.0146	0.0124	0.0021
164	0.0147	0.0126	0.0022
165	0.0150	0.0128	0.0022
166	0.0152	0.0130	0.0022
167	0.0156	0.0133	0.0023
168	0.0157	0.0134	0.0023
169	0.0162	0.0138	0.0024
170	0.0164	0.0140	0.0024
171	0.0168	0.0144	0.0025
172	0.0171	0.0146	0.0025
173	0.0176	0.0150	0.0026
174	0.0179	0.0152	0.0026
175	0.0185	0.0158	0.0027
176	0.0188	0.0160	0.0028
177	0.0195	0.0166	0.0029
178	0.0199	0.0170	0.0029
179	0.0208	0.0177	0.0030
180	0.0212	0.0181	0.0031
181	0.0223	0.0190	0.0033
182	0.0229	0.0196	0.0034
183	0.0243	0.0208	0.0036

184	0.0251	0.0214	0.0037
185	0.0200	0.0171	0.0029
186	0.0212	0.0181	0.0031
187	0.0240	0.0205	0.0035
188	0.0259	0.0221	0.0038
189	0.0312	0.0267	0.0046
190	0.0352	0.0301	0.0052
191	0.0504	0.0430	0.0074
192	0.0693	0.0510	0.0183
193	0.2168	0.0510	0.1659
194	0.0410	0.0350	0.0060
195	0.0282	0.0241	0.0041
196	0.0225	0.0192	0.0033
197	0.0260	0.0222	0.0038
198	0.0236	0.0201	0.0035
199	0.0218	0.0186	0.0032
200	0.0203	0.0173	0.0030
201	0.0191	0.0163	0.0028
202	0.0182	0.0155	0.0027
203	0.0173	0.0148	0.0025
204	0.0166	0.0142	0.0024
205	0.0159	0.0136	0.0023
206	0.0154	0.0131	0.0023
207	0.0149	0.0127	0.0022
208	0.0144	0.0123	0.0021
209	0.0140	0.0119	0.0021
210	0.0136	0.0116	0.0020
211	0.0133	0.0113	0.0019
212	0.0130	0.0111	0.0019
213	0.0127	0.0108	0.0019
214	0.0124	0.0106	0.0018
215	0.0121	0.0103	0.0018
216	0.0119	0.0101	0.0017
217	0.0085	0.0072	0.0012
218	0.0083	0.0071	0.0012
219	0.0081	0.0069	0.0012
220	0.0079	0.0067	0.0012
221	0.0077	0.0066	0.0011
222	0.0076	0.0064	0.0011
223	0.0074	0.0063	0.0011
224	0.0073	0.0062	0.0011
225	0.0071	0.0061	0.0010
226	0.0070	0.0060	0.0010
227	0.0069	0.0059	0.0010
228	0.0067	0.0058	0.0010
229	0.0066	0.0057	0.0010
230	0.0065	0.0056	0.0010
231	0.0064	0.0055	0.0009
232	0.0063	0.0054	0.0009
233	0.0062	0.0053	0.0009
234	0.0061	0.0052	0.0009
235	0.0060	0.0052	0.0009
236	0.0060	0.0051	0.0009
237	0.0059	0.0050	0.0009
238	0.0058	0.0049	0.0009
239	0.0057	0.0049	0.0008
240	0.0057	0.0048	0.0008
241	0.0056	0.0048	0.0008
242	0.0055	0.0047	0.0008
243	0.0054	0.0046	0.0008
244	0.0054	0.0046	0.0008

245	0.0053	0.0045	0.0008
246	0.0053	0.0045	0.0008
247	0.0052	0.0044	0.0008
248	0.0051	0.0044	0.0008
249	0.0051	0.0043	0.0007
250	0.0050	0.0043	0.0007
251	0.0050	0.0042	0.0007
252	0.0049	0.0042	0.0007
253	0.0049	0.0042	0.0007
254	0.0048	0.0041	0.0007
255	0.0048	0.0041	0.0007
256	0.0047	0.0040	0.0007
257	0.0047	0.0040	0.0007
258	0.0046	0.0040	0.0007
259	0.0046	0.0039	0.0007
260	0.0046	0.0039	0.0007
261	0.0045	0.0039	0.0007
262	0.0045	0.0038	0.0007
263	0.0044	0.0038	0.0007
264	0.0044	0.0038	0.0006
265	0.0044	0.0037	0.0006
266	0.0043	0.0037	0.0006
267	0.0043	0.0037	0.0006
268	0.0043	0.0036	0.0006
269	0.0042	0.0036	0.0006
270	0.0042	0.0036	0.0006
271	0.0042	0.0036	0.0006
272	0.0041	0.0035	0.0006
273	0.0041	0.0035	0.0006
274	0.0041	0.0035	0.0006
275	0.0040	0.0034	0.0006
276	0.0040	0.0034	0.0006
277	0.0040	0.0034	0.0006
278	0.0040	0.0034	0.0006
279	0.0039	0.0033	0.0006
280	0.0039	0.0033	0.0006
281	0.0039	0.0033	0.0006
282	0.0038	0.0033	0.0006
283	0.0038	0.0033	0.0006
284	0.0038	0.0032	0.0006
285	0.0038	0.0032	0.0006
286	0.0037	0.0032	0.0005
287	0.0037	0.0032	0.0005
288	0.0037	0.0032	0.0005

Total soil rain loss = 2.14(In)
Total effective rainfall = 0.54(In)
Peak flow rate in flood hydrograph = 2.51(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.00	Q	|	|	|	|
0+10	0.0000	0.01	Q	|	|	|	|

0+15	0.0001	0.01	Q				
0+20	0.0003	0.02	Q				
0+25	0.0004	0.02	Q				
0+30	0.0006	0.02	Q				
0+35	0.0007	0.02	Q				
0+40	0.0009	0.02	Q				
0+45	0.0010	0.02	Q				
0+50	0.0012	0.03	Q				
0+55	0.0014	0.03	Q				
1+ 0	0.0016	0.03	Q				
1+ 5	0.0018	0.03	Q				
1+10	0.0019	0.03	Q				
1+15	0.0021	0.03	Q				
1+20	0.0023	0.03	Q				
1+25	0.0025	0.03	Q				
1+30	0.0027	0.03	Q				
1+35	0.0029	0.03	Q				
1+40	0.0031	0.03	Q				
1+45	0.0033	0.03	Q				
1+50	0.0035	0.03	Q				
1+55	0.0037	0.03	Q				
2+ 0	0.0039	0.03	Q				
2+ 5	0.0041	0.03	Q				
2+10	0.0043	0.03	Q				
2+15	0.0045	0.03	Q				
2+20	0.0047	0.03	QV				
2+25	0.0049	0.03	QV				
2+30	0.0051	0.03	QV				
2+35	0.0053	0.03	QV				
2+40	0.0055	0.03	QV				
2+45	0.0057	0.03	QV				
2+50	0.0059	0.03	QV				
2+55	0.0061	0.03	QV				
3+ 0	0.0063	0.03	QV				
3+ 5	0.0065	0.03	QV				
3+10	0.0067	0.03	QV				
3+15	0.0069	0.03	QV				
3+20	0.0071	0.03	QV				
3+25	0.0073	0.03	QV				
3+30	0.0075	0.03	QV				
3+35	0.0078	0.03	QV				
3+40	0.0080	0.03	QV				
3+45	0.0082	0.03	QV				
3+50	0.0084	0.03	QV				
3+55	0.0086	0.03	QV				
4+ 0	0.0088	0.03	QV				
4+ 5	0.0090	0.03	QV				
4+10	0.0093	0.03	Q V				
4+15	0.0095	0.03	Q V				
4+20	0.0097	0.03	Q V				
4+25	0.0099	0.03	Q V				
4+30	0.0101	0.03	Q V				
4+35	0.0104	0.03	Q V				
4+40	0.0106	0.03	Q V				
4+45	0.0108	0.03	Q V				
4+50	0.0110	0.03	Q V				
4+55	0.0113	0.03	Q V				
5+ 0	0.0115	0.03	Q V				
5+ 5	0.0117	0.03	Q V				
5+10	0.0120	0.03	Q V				
5+15	0.0122	0.03	Q V				

5+20	0.0124	0.03	Q V	|	|	|	|
5+25	0.0126	0.03	Q V	|	|	|	|
5+30	0.0129	0.03	Q V	|	|	|	|
5+35	0.0131	0.03	Q V	|	|	|	|
5+40	0.0133	0.03	Q V	|	|	|	|
5+45	0.0136	0.03	Q V	|	|	|	|
5+50	0.0138	0.03	Q V	|	|	|	|
5+55	0.0141	0.03	Q V	|	|	|	|
6+ 0	0.0143	0.03	Q V	|	|	|	|
6+ 5	0.0145	0.04	Q V	|	|	|	|
6+10	0.0148	0.04	Q V	|	|	|	|
6+15	0.0150	0.04	Q V	|	|	|	|
6+20	0.0153	0.04	Q V	|	|	|	|
6+25	0.0155	0.04	Q V	|	|	|	|
6+30	0.0158	0.04	Q V	|	|	|	|
6+35	0.0160	0.04	Q V	|	|	|	|
6+40	0.0163	0.04	Q V	|	|	|	|
6+45	0.0165	0.04	Q V	|	|	|	|
6+50	0.0168	0.04	Q V	|	|	|	|
6+55	0.0170	0.04	Q V	|	|	|	|
7+ 0	0.0173	0.04	Q V	|	|	|	|
7+ 5	0.0175	0.04	Q V	|	|	|	|
7+10	0.0178	0.04	Q V	|	|	|	|
7+15	0.0181	0.04	Q V	|	|	|	|
7+20	0.0183	0.04	Q V	|	|	|	|
7+25	0.0186	0.04	Q V	|	|	|	|
7+30	0.0188	0.04	Q V	|	|	|	|
7+35	0.0191	0.04	Q V	|	|	|	|
7+40	0.0194	0.04	Q V	|	|	|	|
7+45	0.0196	0.04	Q V	|	|	|	|
7+50	0.0199	0.04	Q V	|	|	|	|
7+55	0.0202	0.04	Q V	|	|	|	|
8+ 0	0.0205	0.04	Q V	|	|	|	|
8+ 5	0.0207	0.04	Q V	|	|	|	|
8+10	0.0210	0.04	Q V	|	|	|	|
8+15	0.0213	0.04	Q V	|	|	|	|
8+20	0.0216	0.04	Q V	|	|	|	|
8+25	0.0219	0.04	Q V	|	|	|	|
8+30	0.0221	0.04	Q V	|	|	|	|
8+35	0.0224	0.04	Q V	|	|	|	|
8+40	0.0227	0.04	Q V	|	|	|	|
8+45	0.0230	0.04	Q V	|	|	|	|
8+50	0.0233	0.04	Q V	|	|	|	|
8+55	0.0236	0.04	Q V	|	|	|	|
9+ 0	0.0239	0.04	Q V	|	|	|	|
9+ 5	0.0242	0.04	Q V	|	|	|	|
9+10	0.0245	0.04	Q V	|	|	|	|
9+15	0.0248	0.04	Q V	|	|	|	|
9+20	0.0251	0.04	Q V	|	|	|	|
9+25	0.0254	0.04	Q V	|	|	|	|
9+30	0.0257	0.04	Q V	|	|	|	|
9+35	0.0260	0.05	Q V	|	|	|	|
9+40	0.0263	0.05	Q V	|	|	|	|
9+45	0.0266	0.05	Q V	|	|	|	|
9+50	0.0270	0.05	Q V	|	|	|	|
9+55	0.0273	0.05	Q V	|	|	|	|
10+ 0	0.0276	0.05	Q V	|	|	|	|
10+ 5	0.0279	0.05	Q V	|	|	|	|
10+10	0.0283	0.05	Q V	|	|	|	|
10+15	0.0286	0.05	Q V	|	|	|	|
10+20	0.0289	0.05	Q V	|	|	|	|

10+25	0.0293	0.05	Q	V	|	|	|	|
10+30	0.0296	0.05	Q	V	|	|	|	|
10+35	0.0299	0.05	Q	V	|	|	|	|
10+40	0.0303	0.05	Q	V	|	|	|	|
10+45	0.0306	0.05	Q	V	|	|	|	|
10+50	0.0310	0.05	Q	V	|	|	|	|
10+55	0.0313	0.05	Q	V	|	|	|	|
11+ 0	0.0317	0.05	Q	V	|	|	|	|
11+ 5	0.0321	0.05	Q	V	|	|	|	|
11+10	0.0324	0.05	Q	V	|	|	|	|
11+15	0.0328	0.05	Q	V	|	|	|	|
11+20	0.0332	0.05	Q	V	|	|	|	|
11+25	0.0335	0.05	Q	V	|	|	|	|
11+30	0.0339	0.06	Q	V	|	|	|	|
11+35	0.0343	0.06	Q	V	|	|	|	|
11+40	0.0347	0.06	Q	V	|	|	|	|
11+45	0.0351	0.06	Q	V	|	|	|	|
11+50	0.0355	0.06	Q	V	|	|	|	|
11+55	0.0359	0.06	Q	V	|	|	|	|
12+ 0	0.0363	0.06	Q	V	|	|	|	|
12+ 5	0.0367	0.06	Q	V	|	|	|	|
12+10	0.0371	0.07	Q	V	|	|	|	|
12+15	0.0376	0.07	Q	V	|	|	|	|
12+20	0.0382	0.08	Q	V	|	|	|	|
12+25	0.0387	0.08	Q	V	|	|	|	|
12+30	0.0393	0.08	Q	V	|	|	|	|
12+35	0.0399	0.08	Q	V	|	|	|	|
12+40	0.0405	0.09	Q	V	|	|	|	|
12+45	0.0411	0.09	Q	V	|	|	|	|
12+50	0.0417	0.09	Q	V	|	|	|	|
12+55	0.0423	0.09	Q	V	|	|	|	|
13+ 0	0.0429	0.09	Q	V	|	|	|	|
13+ 5	0.0436	0.09	Q	V	|	|	|	|
13+10	0.0442	0.09	Q	V	|	|	|	|
13+15	0.0449	0.10	Q	V	|	|	|	|
13+20	0.0455	0.10	Q	V	|	|	|	|
13+25	0.0462	0.10	Q	V	|	|	|	|
13+30	0.0469	0.10	Q	V	|	|	|	|
13+35	0.0476	0.10	Q	V	|	|	|	|
13+40	0.0483	0.10	Q	V	|	|	|	|
13+45	0.0490	0.10	Q	V	|	|	|	|
13+50	0.0497	0.11	Q	V	|	|	|	|
13+55	0.0505	0.11	Q	V	|	|	|	|
14+ 0	0.0512	0.11	Q	V	|	|	|	|
14+ 5	0.0520	0.11	Q	V	|	|	|	|
14+10	0.0527	0.11	Q	V	|	|	|	|
14+15	0.0535	0.11	Q	V	|	|	|	|
14+20	0.0543	0.12	Q	V	|	|	|	|
14+25	0.0551	0.12	Q	V	|	|	|	|
14+30	0.0560	0.12	Q	V	|	|	|	|
14+35	0.0568	0.12	Q	V	|	|	|	|
14+40	0.0577	0.13	Q	V	|	|	|	|
14+45	0.0586	0.13	Q	V	|	|	|	|
14+50	0.0595	0.13	Q	V	|	|	|	|
14+55	0.0605	0.14	Q	V	|	|	|	|
15+ 0	0.0614	0.14	Q	V	|	|	|	|
15+ 5	0.0624	0.14	Q	V	|	|	|	|
15+10	0.0635	0.15	Q	V	|	|	|	|
15+15	0.0645	0.15	Q	V	|	|	|	|
15+20	0.0656	0.16	Q	V	|	|	|	|
15+25	0.0668	0.17	Q	V	|	|	|	|

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15+30       0.0679      0.16  Q         |   V     |         |         |
15+35       0.0690      0.16  Q         |    V    |         |         |
15+40       0.0701      0.16  Q         |    V    |         |         |
15+45       0.0713      0.17  Q         |    V    |         |         |
15+50       0.0726      0.19  Q         |    V    |         |         |
15+55       0.0740      0.21  Q         |     V   |         |         |
16+ 0       0.0759      0.27  |Q        |     V   |         |         |
16+ 5       0.0808      0.72  | Q       |      V  |         |         |
16+10       0.0935      1.84  |      Q  |         V         |         |
16+15       0.1108      2.51  |         Q         |   V     |         |
16+20       0.1229      1.75  |      Q  |         |     V   |         |
16+25       0.1296      0.97  |  Q      |         |       V |         |
16+30       0.1342      0.67  | Q       |         |        V|         |
16+35       0.1378      0.53  | Q       |         |         V         |
16+40       0.1409      0.44  |Q        |         |         V         |
16+45       0.1435      0.38  |Q        |         |         |V        |
16+50       0.1458      0.33  |Q        |         |         |V        |
16+55       0.1477      0.28  |Q        |         |         | V       |
17+ 0       0.1495      0.25  |Q        |         |         | V       |
17+ 5       0.1511      0.24  Q         |         |         | V       |
17+10       0.1526      0.21  Q         |         |         |  V      |
17+15       0.1539      0.19  Q         |         |         |  V      |
17+20       0.1551      0.18  Q         |         |         |  V      |
17+25       0.1563      0.16  Q         |         |         |   V     |
17+30       0.1573      0.15  Q         |         |         |   V     |
17+35       0.1583      0.14  Q         |         |         |   V     |
17+40       0.1593      0.14  Q         |         |         |   V     |
17+45       0.1601      0.12  Q         |         |         |   V     |
17+50       0.1608      0.10  Q         |         |         |    V    |
17+55       0.1615      0.10  Q         |         |         |    V    |
18+ 0       0.1622      0.10  Q         |         |         |    V    |
18+ 5       0.1628      0.09  Q         |         |         |    V    |
18+10       0.1634      0.09  Q         |         |         |    V    |
18+15       0.1639      0.08  Q         |         |         |    V    |
18+20       0.1644      0.07  Q         |         |         |    V    |
18+25       0.1649      0.07  Q         |         |         |    V    |
18+30       0.1653      0.07  Q         |         |         |     V   |
18+35       0.1658      0.06  Q         |         |         |     V   |
18+40       0.1662      0.06  Q         |         |         |     V   |
18+45       0.1666      0.06  Q         |         |         |     V   |
18+50       0.1670      0.06  Q         |         |         |     V   |
18+55       0.1674      0.06  Q         |         |         |     V   |
19+ 0       0.1678      0.05  Q         |         |         |     V   |
19+ 5       0.1681      0.05  Q         |         |         |     V   |
19+10       0.1685      0.05  Q         |         |         |     V   |
19+15       0.1688      0.05  Q         |         |         |     V   |
19+20       0.1692      0.05  Q         |         |         |     V   |
19+25       0.1695      0.05  Q         |         |         |     V   |
19+30       0.1698      0.05  Q         |         |         |     V   |
19+35       0.1702      0.05  Q         |         |         |      V  |
19+40       0.1705      0.05  Q         |         |         |      V  |
19+45       0.1708      0.05  Q         |         |         |      V  |
19+50       0.1711      0.04  Q         |         |         |      V  |
19+55       0.1714      0.04  Q         |         |         |      V  |
20+ 0       0.1717      0.04  Q         |         |         |      V  |
20+ 5       0.1720      0.04  Q         |         |         |      V  |
20+10       0.1723      0.04  Q         |         |         |      V  |
20+15       0.1726      0.04  Q         |         |         |      V  |
20+20       0.1729      0.04  Q         |         |         |      V  |
20+25       0.1731      0.04  Q         |         |         |      V  |
20+30       0.1734      0.04  Q         |         |         |      V  |
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20+35       0.1737      0.04  Q         |          |          |      V   |
20+40       0.1740      0.04  Q         |          |          |      V   |
20+45       0.1742      0.04  Q         |          |          |      V   |
20+50       0.1745      0.04  Q         |          |          |       V  |
20+55       0.1748      0.04  Q         |          |          |       V  |
21+ 0       0.1750      0.04  Q         |          |          |       V  |
21+ 5       0.1753      0.04  Q         |          |          |       V  |
21+10       0.1755      0.04  Q         |          |          |       V  |
21+15       0.1758      0.04  Q         |          |          |       V  |
21+20       0.1760      0.04  Q         |          |          |       V  |
21+25       0.1763      0.04  Q         |          |          |       V  |
21+30       0.1765      0.04  Q         |          |          |       V  |
21+35       0.1768      0.03  Q         |          |          |       V  |
21+40       0.1770      0.03  Q         |          |          |       V  |
21+45       0.1772      0.03  Q         |          |          |       V  |
21+50       0.1775      0.03  Q         |          |          |       V  |
21+55       0.1777      0.03  Q         |          |          |       V  |
22+ 0       0.1779      0.03  Q         |          |          |       V  |
22+ 5       0.1781      0.03  Q         |          |          |       V  |
22+10       0.1784      0.03  Q         |          |          |       V  |
22+15       0.1786      0.03  Q         |          |          |       V  |
22+20       0.1788      0.03  Q         |          |          |       V  |
22+25       0.1790      0.03  Q         |          |          |        V |
22+30       0.1793      0.03  Q         |          |          |        V |
22+35       0.1795      0.03  Q         |          |          |        V |
22+40       0.1797      0.03  Q         |          |          |        V |
22+45       0.1799      0.03  Q         |          |          |        V |
22+50       0.1801      0.03  Q         |          |          |        V |
22+55       0.1803      0.03  Q         |          |          |        V |
23+ 0       0.1805      0.03  Q         |          |          |        V |
23+ 5       0.1807      0.03  Q         |          |          |        V |
23+10       0.1809      0.03  Q         |          |          |        V |
23+15       0.1811      0.03  Q         |          |          |        V |
23+20       0.1813      0.03  Q         |          |          |        V |
23+25       0.1815      0.03  Q         |          |          |        V |
23+30       0.1817      0.03  Q         |          |          |        V |
23+35       0.1819      0.03  Q         |          |          |        V |
23+40       0.1821      0.03  Q         |          |          |        V |
23+45       0.1823      0.03  Q         |          |          |        V |
23+50       0.1825      0.03  Q         |          |          |        V |
23+55       0.1827      0.03  Q         |          |          |        V |
24+ 0       0.1829      0.03  Q         |          |          |        V |
24+ 5       0.1831      0.03  Q         |          |          |        V |
24+10       0.1832      0.02  Q         |          |          |        V |
24+15       0.1833      0.01  Q         |          |          |        V |
24+20       0.1834      0.01  Q         |          |          |        V |
24+25       0.1834      0.01  Q         |          |          |        V |
24+30       0.1835      0.01  Q         |          |          |        V |
24+35       0.1835      0.00  Q         |          |          |        V |
24+40       0.1835      0.00  Q         |          |          |        V |
24+45       0.1835      0.00  Q         |          |          |        V |
24+50       0.1836      0.00  Q         |          |          |        V |
24+55       0.1836      0.00  Q         |          |          |        V |
25+ 0       0.1836      0.00  Q         |          |          |        V |
25+ 5       0.1836      0.00  Q         |          |          |        V |
25+10       0.1836      0.00  Q         |          |          |        V |
25+15       0.1836      0.00  Q         |          |          |        V |
25+20       0.1836      0.00  Q         |          |          |        V |
25+25       0.1836      0.00  Q         |          |          |        V |
25+30       0.1836      0.00  Q         |          |          |        V |
25+35       0.1836      0.00  Q         |          |          |        V |
```

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   25+40       0.1836      0.00  Q         |         |         |         V
-------------------------------------------------------------------------
```

U n i t H y d r o g r a p h A n a l y s i s

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Study date 01/31/25

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6103

UNIT HYDROGRAPH METHOD
2-YEAR POST DEVELOPMENT
4200001UHPROP02
FUSCOE ENGINEERING

Storm Event Year = 2

Antecedent Moisture Condition = 1

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 2		
4.12	1	0.59
Rainfall data for year 2		
4.12	6	1.55
Rainfall data for year 2		
4.12	24	2.68

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 1)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
75.0	57.0	4.12	1.000	0.721	0.070	0.050

Area-averaged adjusted loss rate Fm (In/Hr) = 0.050

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC1)	S	Pervious Yield Fr
0.29	0.070	75.0	57.0	7.54	0.059
3.83	0.930	98.0	98.0	0.20	0.914

Area-averaged catchment yield fraction, Y = 0.854
Area-averaged low loss fraction, Yb = 0.146
User entry of time of concentration = 0.134 (hours)
++
Watershed area = 4.12(Ac.)
Catchment Lag time = 0.107 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 77.7363
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.050(In/Hr)
Average low loss rate fraction (Yb) = 0.146 (decimal)
VALLEY DEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.217(In)
Computed peak 30-minute rainfall = 0.444(In)
Specified peak 1-hour rainfall = 0.586(In)
Computed peak 3-hour rainfall = 1.064(In)
Specified peak 6-hour rainfall = 1.550(In)
Specified peak 24-hour rainfall = 2.680(In)

Rainfall depth area reduction factors:
Using a total area of 4.12(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.217(In)
30-minute factor = 1.000 Adjusted rainfall = 0.444(In)
1-hour factor = 1.000 Adjusted rainfall = 0.586(In)
3-hour factor = 1.000 Adjusted rainfall = 1.064(In)
6-hour factor = 1.000 Adjusted rainfall = 1.550(In)
24-hour factor = 1.000 Adjusted rainfall = 2.680(In)

U n i t H y d r o g r a p h
++

Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
	(K = 49.83 (CFS))	
1	10.711	5.337
2	61.546	25.329
3	93.159	15.752
4	98.688	2.755
5	100.000	0.654

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.2168	0.2168
2	0.2861	0.0693
3	0.3365	0.0504
4	0.3775	0.0410
5	0.4128	0.0352
6	0.4440	0.0312
7	0.4723	0.0282
8	0.4982	0.0259
9	0.5222	0.0240

10	0.5447	0.0225
11	0.5658	0.0212
12	0.5859	0.0200
13	0.6119	0.0260
14	0.6370	0.0251
15	0.6614	0.0243
16	0.6849	0.0236
17	0.7079	0.0229
18	0.7302	0.0223
19	0.7519	0.0218
20	0.7732	0.0212
21	0.7939	0.0208
22	0.8143	0.0203
23	0.8341	0.0199
24	0.8536	0.0195
25	0.8728	0.0191
26	0.8916	0.0188
27	0.9100	0.0185
28	0.9282	0.0182
29	0.9460	0.0179
30	0.9636	0.0176
31	0.9809	0.0173
32	0.9980	0.0171
33	1.0148	0.0168
34	1.0314	0.0166
35	1.0478	0.0164
36	1.0639	0.0162
37	1.0798	0.0159
38	1.0956	0.0157
39	1.1112	0.0156
40	1.1265	0.0154
41	1.1417	0.0152
42	1.1568	0.0150
43	1.1716	0.0149
44	1.1864	0.0147
45	1.2009	0.0146
46	1.2153	0.0144
47	1.2296	0.0143
48	1.2437	0.0141
49	1.2577	0.0140
50	1.2716	0.0139
51	1.2854	0.0137
52	1.2990	0.0136
53	1.3125	0.0135
54	1.3259	0.0134
55	1.3391	0.0133
56	1.3523	0.0132
57	1.3654	0.0131
58	1.3783	0.0130
59	1.3912	0.0129
60	1.4039	0.0128
61	1.4166	0.0127
62	1.4291	0.0126
63	1.4416	0.0125
64	1.4540	0.0124
65	1.4663	0.0123
66	1.4785	0.0122
67	1.4906	0.0121
68	1.5026	0.0120
69	1.5146	0.0120
70	1.5265	0.0119

71	1.5383	0.0118
72	1.5500	0.0117
73	1.5584	0.0085
74	1.5668	0.0084
75	1.5752	0.0083
76	1.5834	0.0083
77	1.5916	0.0082
78	1.5998	0.0081
79	1.6078	0.0081
80	1.6158	0.0080
81	1.6238	0.0079
82	1.6317	0.0079
83	1.6395	0.0078
84	1.6473	0.0078
85	1.6550	0.0077
86	1.6627	0.0077
87	1.6703	0.0076
88	1.6778	0.0076
89	1.6853	0.0075
90	1.6928	0.0075
91	1.7002	0.0074
92	1.7076	0.0074
93	1.7149	0.0073
94	1.7221	0.0073
95	1.7293	0.0072
96	1.7365	0.0072
97	1.7436	0.0071
98	1.7507	0.0071
99	1.7577	0.0070
100	1.7647	0.0070
101	1.7717	0.0069
102	1.7786	0.0069
103	1.7855	0.0069
104	1.7923	0.0068
105	1.7991	0.0068
106	1.8058	0.0067
107	1.8125	0.0067
108	1.8192	0.0067
109	1.8258	0.0066
110	1.8324	0.0066
111	1.8390	0.0066
112	1.8455	0.0065
113	1.8520	0.0065
114	1.8585	0.0065
115	1.8649	0.0064
116	1.8713	0.0064
117	1.8776	0.0064
118	1.8840	0.0063
119	1.8902	0.0063
120	1.8965	0.0063
121	1.9027	0.0062
122	1.9089	0.0062
123	1.9151	0.0062
124	1.9212	0.0061
125	1.9273	0.0061
126	1.9334	0.0061
127	1.9395	0.0060
128	1.9455	0.0060
129	1.9515	0.0060
130	1.9574	0.0060
131	1.9634	0.0059

132	1.9693	0.0059
133	1.9751	0.0059
134	1.9810	0.0059
135	1.9868	0.0058
136	1.9926	0.0058
137	1.9984	0.0058
138	2.0041	0.0057
139	2.0099	0.0057
140	2.0156	0.0057
141	2.0212	0.0057
142	2.0269	0.0057
143	2.0325	0.0056
144	2.0381	0.0056
145	2.0437	0.0056
146	2.0493	0.0056
147	2.0548	0.0055
148	2.0603	0.0055
149	2.0658	0.0055
150	2.0712	0.0055
151	2.0767	0.0054
152	2.0821	0.0054
153	2.0875	0.0054
154	2.0929	0.0054
155	2.0982	0.0054
156	2.1036	0.0053
157	2.1089	0.0053
158	2.1142	0.0053
159	2.1195	0.0053
160	2.1247	0.0053
161	2.1300	0.0052
162	2.1352	0.0052
163	2.1404	0.0052
164	2.1456	0.0052
165	2.1507	0.0052
166	2.1558	0.0051
167	2.1610	0.0051
168	2.1661	0.0051
169	2.1712	0.0051
170	2.1762	0.0051
171	2.1813	0.0050
172	2.1863	0.0050
173	2.1913	0.0050
174	2.1963	0.0050
175	2.2013	0.0050
176	2.2062	0.0050
177	2.2112	0.0049
178	2.2161	0.0049
179	2.2210	0.0049
180	2.2259	0.0049
181	2.2308	0.0049
182	2.2356	0.0049
183	2.2405	0.0048
184	2.2453	0.0048
185	2.2501	0.0048
186	2.2549	0.0048
187	2.2597	0.0048
188	2.2645	0.0048
189	2.2692	0.0048
190	2.2740	0.0047
191	2.2787	0.0047
192	2.2834	0.0047

193	2.2881	0.0047
194	2.2927	0.0047
195	2.2974	0.0047
196	2.3021	0.0046
197	2.3067	0.0046
198	2.3113	0.0046
199	2.3159	0.0046
200	2.3205	0.0046
201	2.3251	0.0046
202	2.3296	0.0046
203	2.3342	0.0045
204	2.3387	0.0045
205	2.3432	0.0045
206	2.3477	0.0045
207	2.3522	0.0045
208	2.3567	0.0045
209	2.3612	0.0045
210	2.3657	0.0045
211	2.3701	0.0044
212	2.3745	0.0044
213	2.3789	0.0044
214	2.3833	0.0044
215	2.3877	0.0044
216	2.3921	0.0044
217	2.3965	0.0044
218	2.4008	0.0044
219	2.4052	0.0043
220	2.4095	0.0043
221	2.4138	0.0043
222	2.4182	0.0043
223	2.4224	0.0043
224	2.4267	0.0043
225	2.4310	0.0043
226	2.4353	0.0043
227	2.4395	0.0043
228	2.4438	0.0042
229	2.4480	0.0042
230	2.4522	0.0042
231	2.4564	0.0042
232	2.4606	0.0042
233	2.4648	0.0042
234	2.4690	0.0042
235	2.4731	0.0042
236	2.4773	0.0042
237	2.4814	0.0041
238	2.4855	0.0041
239	2.4897	0.0041
240	2.4938	0.0041
241	2.4979	0.0041
242	2.5020	0.0041
243	2.5060	0.0041
244	2.5101	0.0041
245	2.5142	0.0041
246	2.5182	0.0040
247	2.5223	0.0040
248	2.5263	0.0040
249	2.5303	0.0040
250	2.5343	0.0040
251	2.5383	0.0040
252	2.5423	0.0040
253	2.5463	0.0040

254	2.5502	0.0040
255	2.5542	0.0040
256	2.5582	0.0040
257	2.5621	0.0039
258	2.5660	0.0039
259	2.5700	0.0039
260	2.5739	0.0039
261	2.5778	0.0039
262	2.5817	0.0039
263	2.5856	0.0039
264	2.5894	0.0039
265	2.5933	0.0039
266	2.5972	0.0039
267	2.6010	0.0039
268	2.6049	0.0038
269	2.6087	0.0038
270	2.6125	0.0038
271	2.6163	0.0038
272	2.6202	0.0038
273	2.6240	0.0038
274	2.6278	0.0038
275	2.6315	0.0038
276	2.6353	0.0038
277	2.6391	0.0038
278	2.6428	0.0038
279	2.6466	0.0038
280	2.6503	0.0037
281	2.6541	0.0037
282	2.6578	0.0037
283	2.6615	0.0037
284	2.6652	0.0037
285	2.6689	0.0037
286	2.6726	0.0037
287	2.6763	0.0037
288	2.6800	0.0037

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0037	0.0005	0.0031
2	0.0037	0.0005	0.0031
3	0.0037	0.0005	0.0032
4	0.0037	0.0005	0.0032
5	0.0037	0.0005	0.0032
6	0.0037	0.0005	0.0032
7	0.0038	0.0005	0.0032
8	0.0038	0.0005	0.0032
9	0.0038	0.0006	0.0032
10	0.0038	0.0006	0.0032
11	0.0038	0.0006	0.0032
12	0.0038	0.0006	0.0033
13	0.0038	0.0006	0.0033
14	0.0038	0.0006	0.0033
15	0.0039	0.0006	0.0033
16	0.0039	0.0006	0.0033
17	0.0039	0.0006	0.0033
18	0.0039	0.0006	0.0033
19	0.0039	0.0006	0.0033
20	0.0039	0.0006	0.0033
21	0.0039	0.0006	0.0034

22	0.0039	0.0006	0.0034
23	0.0040	0.0006	0.0034
24	0.0040	0.0006	0.0034
25	0.0040	0.0006	0.0034
26	0.0040	0.0006	0.0034
27	0.0040	0.0006	0.0034
28	0.0040	0.0006	0.0034
29	0.0040	0.0006	0.0035
30	0.0041	0.0006	0.0035
31	0.0041	0.0006	0.0035
32	0.0041	0.0006	0.0035
33	0.0041	0.0006	0.0035
34	0.0041	0.0006	0.0035
35	0.0041	0.0006	0.0035
36	0.0042	0.0006	0.0035
37	0.0042	0.0006	0.0036
38	0.0042	0.0006	0.0036
39	0.0042	0.0006	0.0036
40	0.0042	0.0006	0.0036
41	0.0042	0.0006	0.0036
42	0.0043	0.0006	0.0036
43	0.0043	0.0006	0.0037
44	0.0043	0.0006	0.0037
45	0.0043	0.0006	0.0037
46	0.0043	0.0006	0.0037
47	0.0043	0.0006	0.0037
48	0.0044	0.0006	0.0037
49	0.0044	0.0006	0.0037
50	0.0044	0.0006	0.0038
51	0.0044	0.0006	0.0038
52	0.0044	0.0006	0.0038
53	0.0045	0.0006	0.0038
54	0.0045	0.0007	0.0038
55	0.0045	0.0007	0.0038
56	0.0045	0.0007	0.0039
57	0.0045	0.0007	0.0039
58	0.0045	0.0007	0.0039
59	0.0046	0.0007	0.0039
60	0.0046	0.0007	0.0039
61	0.0046	0.0007	0.0039
62	0.0046	0.0007	0.0040
63	0.0047	0.0007	0.0040
64	0.0047	0.0007	0.0040
65	0.0047	0.0007	0.0040
66	0.0047	0.0007	0.0040
67	0.0048	0.0007	0.0041
68	0.0048	0.0007	0.0041
69	0.0048	0.0007	0.0041
70	0.0048	0.0007	0.0041
71	0.0048	0.0007	0.0041
72	0.0049	0.0007	0.0042
73	0.0049	0.0007	0.0042
74	0.0049	0.0007	0.0042
75	0.0049	0.0007	0.0042
76	0.0050	0.0007	0.0042
77	0.0050	0.0007	0.0043
78	0.0050	0.0007	0.0043
79	0.0050	0.0007	0.0043
80	0.0051	0.0007	0.0043
81	0.0051	0.0007	0.0044
82	0.0051	0.0007	0.0044

83	0.0052	0.0008	0.0044
84	0.0052	0.0008	0.0044
85	0.0052	0.0008	0.0045
86	0.0052	0.0008	0.0045
87	0.0053	0.0008	0.0045
88	0.0053	0.0008	0.0045
89	0.0053	0.0008	0.0046
90	0.0054	0.0008	0.0046
91	0.0054	0.0008	0.0046
92	0.0054	0.0008	0.0046
93	0.0055	0.0008	0.0047
94	0.0055	0.0008	0.0047
95	0.0055	0.0008	0.0047
96	0.0056	0.0008	0.0047
97	0.0056	0.0008	0.0048
98	0.0056	0.0008	0.0048
99	0.0057	0.0008	0.0048
100	0.0057	0.0008	0.0049
101	0.0057	0.0008	0.0049
102	0.0058	0.0008	0.0049
103	0.0058	0.0008	0.0050
104	0.0059	0.0009	0.0050
105	0.0059	0.0009	0.0050
106	0.0059	0.0009	0.0051
107	0.0060	0.0009	0.0051
108	0.0060	0.0009	0.0051
109	0.0061	0.0009	0.0052
110	0.0061	0.0009	0.0052
111	0.0062	0.0009	0.0053
112	0.0062	0.0009	0.0053
113	0.0063	0.0009	0.0053
114	0.0063	0.0009	0.0054
115	0.0064	0.0009	0.0054
116	0.0064	0.0009	0.0055
117	0.0065	0.0009	0.0055
118	0.0065	0.0009	0.0055
119	0.0066	0.0010	0.0056
120	0.0066	0.0010	0.0056
121	0.0067	0.0010	0.0057
122	0.0067	0.0010	0.0057
123	0.0068	0.0010	0.0058
124	0.0068	0.0010	0.0058
125	0.0069	0.0010	0.0059
126	0.0069	0.0010	0.0059
127	0.0070	0.0010	0.0060
128	0.0071	0.0010	0.0060
129	0.0072	0.0010	0.0061
130	0.0072	0.0011	0.0062
131	0.0073	0.0011	0.0062
132	0.0074	0.0011	0.0063
133	0.0075	0.0011	0.0064
134	0.0075	0.0011	0.0064
135	0.0076	0.0011	0.0065
136	0.0077	0.0011	0.0065
137	0.0078	0.0011	0.0066
138	0.0078	0.0011	0.0067
139	0.0079	0.0012	0.0068
140	0.0080	0.0012	0.0068
141	0.0081	0.0012	0.0069
142	0.0082	0.0012	0.0070
143	0.0083	0.0012	0.0071

144	0.0084	0.0012	0.0072
145	0.0117	0.0017	0.0100
146	0.0118	0.0017	0.0101
147	0.0120	0.0017	0.0102
148	0.0120	0.0018	0.0103
149	0.0122	0.0018	0.0104
150	0.0123	0.0018	0.0105
151	0.0125	0.0018	0.0107
152	0.0126	0.0018	0.0107
153	0.0128	0.0019	0.0109
154	0.0129	0.0019	0.0110
155	0.0131	0.0019	0.0112
156	0.0132	0.0019	0.0112
157	0.0134	0.0020	0.0114
158	0.0135	0.0020	0.0115
159	0.0137	0.0020	0.0117
160	0.0139	0.0020	0.0118
161	0.0141	0.0021	0.0121
162	0.0143	0.0021	0.0122
163	0.0146	0.0021	0.0124
164	0.0147	0.0021	0.0126
165	0.0150	0.0022	0.0128
166	0.0152	0.0022	0.0130
167	0.0156	0.0023	0.0133
168	0.0157	0.0023	0.0135
169	0.0162	0.0024	0.0138
170	0.0164	0.0024	0.0140
171	0.0168	0.0025	0.0144
172	0.0171	0.0025	0.0146
173	0.0176	0.0026	0.0150
174	0.0179	0.0026	0.0153
175	0.0185	0.0027	0.0158
176	0.0188	0.0027	0.0160
177	0.0195	0.0028	0.0167
178	0.0199	0.0029	0.0170
179	0.0208	0.0030	0.0177
180	0.0212	0.0031	0.0181
181	0.0223	0.0033	0.0191
182	0.0229	0.0033	0.0196
183	0.0243	0.0035	0.0208
184	0.0251	0.0037	0.0215
185	0.0200	0.0029	0.0171
186	0.0212	0.0031	0.0181
187	0.0240	0.0035	0.0205
188	0.0259	0.0038	0.0221
189	0.0312	0.0042	0.0270
190	0.0352	0.0042	0.0310
191	0.0504	0.0042	0.0462
192	0.0693	0.0042	0.0651
193	0.2168	0.0042	0.2126
194	0.0410	0.0042	0.0368
195	0.0282	0.0041	0.0241
196	0.0225	0.0033	0.0192
197	0.0260	0.0038	0.0222
198	0.0236	0.0034	0.0201
199	0.0218	0.0032	0.0186
200	0.0203	0.0030	0.0174
201	0.0191	0.0028	0.0163
202	0.0182	0.0026	0.0155
203	0.0173	0.0025	0.0148
204	0.0166	0.0024	0.0142

205	0.0159	0.0023	0.0136
206	0.0154	0.0022	0.0131
207	0.0149	0.0022	0.0127
208	0.0144	0.0021	0.0123
209	0.0140	0.0020	0.0120
210	0.0136	0.0020	0.0116
211	0.0133	0.0019	0.0113
212	0.0130	0.0019	0.0111
213	0.0127	0.0018	0.0108
214	0.0124	0.0018	0.0106
215	0.0121	0.0018	0.0104
216	0.0119	0.0017	0.0101
217	0.0085	0.0012	0.0072
218	0.0083	0.0012	0.0071
219	0.0081	0.0012	0.0069
220	0.0079	0.0012	0.0067
221	0.0077	0.0011	0.0066
222	0.0076	0.0011	0.0065
223	0.0074	0.0011	0.0063
224	0.0073	0.0011	0.0062
225	0.0071	0.0010	0.0061
226	0.0070	0.0010	0.0060
227	0.0069	0.0010	0.0059
228	0.0067	0.0010	0.0058
229	0.0066	0.0010	0.0057
230	0.0065	0.0010	0.0056
231	0.0064	0.0009	0.0055
232	0.0063	0.0009	0.0054
233	0.0062	0.0009	0.0053
234	0.0061	0.0009	0.0052
235	0.0060	0.0009	0.0052
236	0.0060	0.0009	0.0051
237	0.0059	0.0009	0.0050
238	0.0058	0.0008	0.0050
239	0.0057	0.0008	0.0049
240	0.0057	0.0008	0.0048
241	0.0056	0.0008	0.0048
242	0.0055	0.0008	0.0047
243	0.0054	0.0008	0.0046
244	0.0054	0.0008	0.0046
245	0.0053	0.0008	0.0045
246	0.0053	0.0008	0.0045
247	0.0052	0.0008	0.0044
248	0.0051	0.0007	0.0044
249	0.0051	0.0007	0.0043
250	0.0050	0.0007	0.0043
251	0.0050	0.0007	0.0043
252	0.0049	0.0007	0.0042
253	0.0049	0.0007	0.0042
254	0.0048	0.0007	0.0041
255	0.0048	0.0007	0.0041
256	0.0047	0.0007	0.0040
257	0.0047	0.0007	0.0040
258	0.0046	0.0007	0.0040
259	0.0046	0.0007	0.0039
260	0.0046	0.0007	0.0039
261	0.0045	0.0007	0.0039
262	0.0045	0.0007	0.0038
263	0.0044	0.0006	0.0038
264	0.0044	0.0006	0.0038
265	0.0044	0.0006	0.0037

266	0.0043	0.0006	0.0037
267	0.0043	0.0006	0.0037
268	0.0043	0.0006	0.0036
269	0.0042	0.0006	0.0036
270	0.0042	0.0006	0.0036
271	0.0042	0.0006	0.0036
272	0.0041	0.0006	0.0035
273	0.0041	0.0006	0.0035
274	0.0041	0.0006	0.0035
275	0.0040	0.0006	0.0034
276	0.0040	0.0006	0.0034
277	0.0040	0.0006	0.0034
278	0.0040	0.0006	0.0034
279	0.0039	0.0006	0.0034
280	0.0039	0.0006	0.0033
281	0.0039	0.0006	0.0033
282	0.0038	0.0006	0.0033
283	0.0038	0.0006	0.0033
284	0.0038	0.0006	0.0032
285	0.0038	0.0005	0.0032
286	0.0037	0.0005	0.0032
287	0.0037	0.0005	0.0032
288	0.0037	0.0005	0.0032

Total soil rain loss = 0.35(In)
Total effective rainfall = 2.33(In)
Peak flow rate in flood hydrograph = 6.76(CFS)

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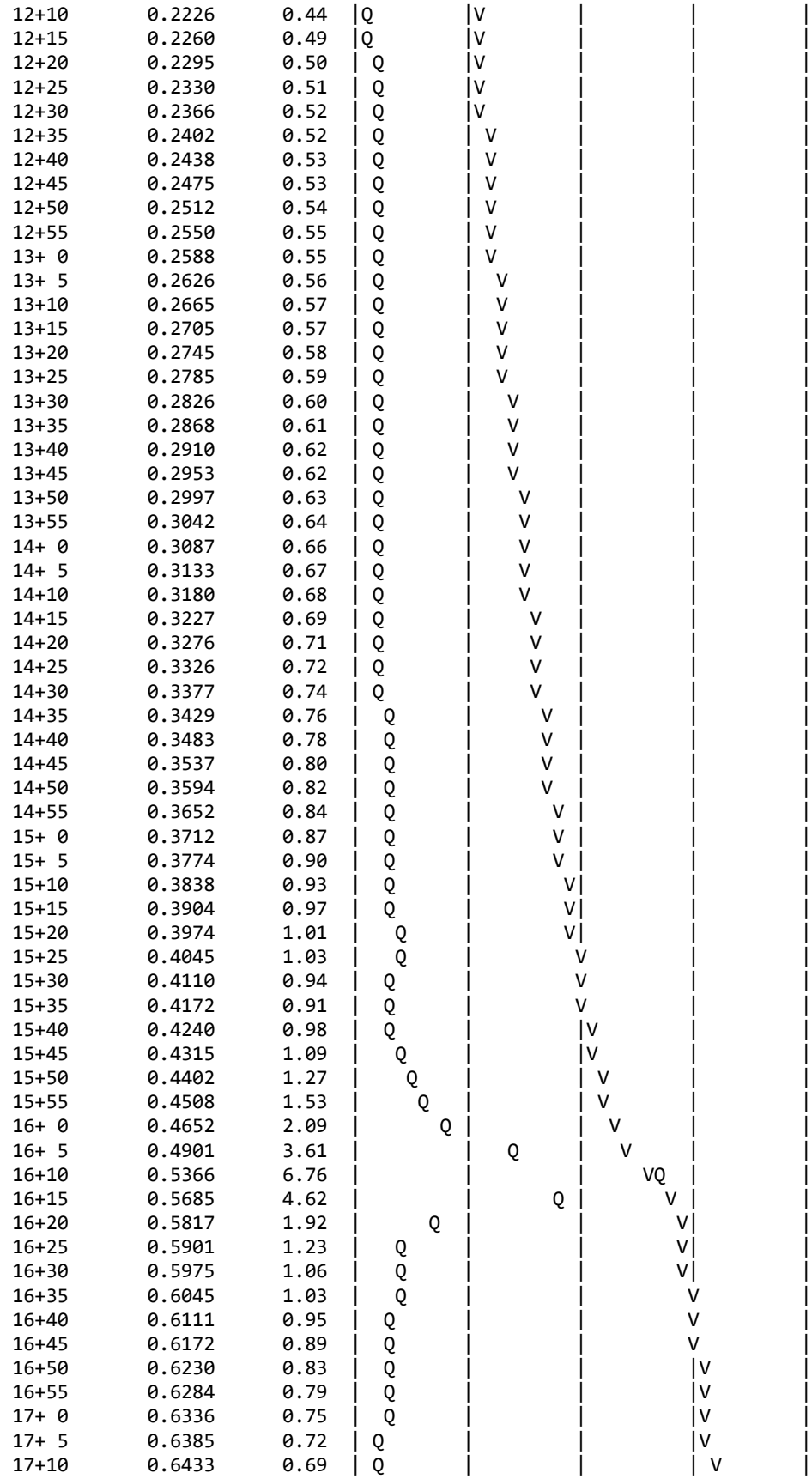
24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.02	Q	|	|	|	|
0+10	0.0008	0.10	Q	|	|	|	|
0+15	0.0018	0.15	Q	|	|	|	|
0+20	0.0029	0.16	Q	|	|	|	|
0+25	0.0039	0.16	Q	|	|	|	|
0+30	0.0050	0.16	Q	|	|	|	|
0+35	0.0061	0.16	Q	|	|	|	|
0+40	0.0072	0.16	Q	|	|	|	|
0+45	0.0083	0.16	Q	|	|	|	|
0+50	0.0094	0.16	Q	|	|	|	|
0+55	0.0105	0.16	Q	|	|	|	|
1+ 0	0.0117	0.16	Q	|	|	|	|
1+ 5	0.0128	0.16	Q	|	|	|	|
1+10	0.0139	0.16	Q	|	|	|	|
1+15	0.0150	0.16	Q	|	|	|	|
1+20	0.0161	0.16	Q	|	|	|	|
1+25	0.0173	0.16	Q	|	|	|	|
1+30	0.0184	0.16	Q	|	|	|	|
1+35	0.0195	0.17	Q	|	|	|	|
1+40	0.0207	0.17	QV	|	|	|	|
1+45	0.0218	0.17	QV	|	|	|	|
1+50	0.0230	0.17	QV	|	|	|	|
1+55	0.0241	0.17	QV	|	|	|	|

2+ 0	0.0253	0.17	QV	|	|	|	|
2+ 5	0.0265	0.17	QV	|	|	|	|
2+10	0.0276	0.17	QV	|	|	|	|
2+15	0.0288	0.17	QV	|	|	|	|
2+20	0.0300	0.17	QV	|	|	|	|
2+25	0.0312	0.17	QV	|	|	|	|
2+30	0.0323	0.17	QV	|	|	|	|
2+35	0.0335	0.17	QV	|	|	|	|
2+40	0.0347	0.17	QV	|	|	|	|
2+45	0.0359	0.17	QV	|	|	|	|
2+50	0.0371	0.17	QV	|	|	|	|
2+55	0.0383	0.18	QV	|	|	|	|
3+ 0	0.0395	0.18	QV	|	|	|	|
3+ 5	0.0408	0.18	Q V	|	|	|	|
3+10	0.0420	0.18	Q V	|	|	|	|
3+15	0.0432	0.18	Q V	|	|	|	|
3+20	0.0444	0.18	Q V	|	|	|	|
3+25	0.0457	0.18	Q V	|	|	|	|
3+30	0.0469	0.18	Q V	|	|	|	|
3+35	0.0482	0.18	Q V	|	|	|	|
3+40	0.0494	0.18	Q V	|	|	|	|
3+45	0.0507	0.18	Q V	|	|	|	|
3+50	0.0519	0.18	Q V	|	|	|	|
3+55	0.0532	0.18	Q V	|	|	|	|
4+ 0	0.0545	0.18	Q V	|	|	|	|
4+ 5	0.0557	0.19	Q V	|	|	|	|
4+10	0.0570	0.19	Q V	|	|	|	|
4+15	0.0583	0.19	Q V	|	|	|	|
4+20	0.0596	0.19	Q V	|	|	|	|
4+25	0.0609	0.19	Q V	|	|	|	|
4+30	0.0622	0.19	Q V	|	|	|	|
4+35	0.0635	0.19	Q V	|	|	|	|
4+40	0.0648	0.19	Q V	|	|	|	|
4+45	0.0661	0.19	Q V	|	|	|	|
4+50	0.0675	0.19	Q V	|	|	|	|
4+55	0.0688	0.19	Q V	|	|	|	|
5+ 0	0.0701	0.19	Q V	|	|	|	|
5+ 5	0.0715	0.20	Q V	|	|	|	|
5+10	0.0728	0.20	Q V	|	|	|	|
5+15	0.0742	0.20	Q V	|	|	|	|
5+20	0.0755	0.20	Q V	|	|	|	|
5+25	0.0769	0.20	Q V	|	|	|	|
5+30	0.0783	0.20	Q V	|	|	|	|
5+35	0.0797	0.20	Q V	|	|	|	|
5+40	0.0811	0.20	Q V	|	|	|	|
5+45	0.0825	0.20	Q V	|	|	|	|
5+50	0.0839	0.20	Q V	|	|	|	|
5+55	0.0853	0.20	Q V	|	|	|	|
6+ 0	0.0867	0.21	Q V	|	|	|	|
6+ 5	0.0881	0.21	Q V	|	|	|	|
6+10	0.0895	0.21	Q V	|	|	|	|
6+15	0.0910	0.21	Q V	|	|	|	|
6+20	0.0924	0.21	Q V	|	|	|	|
6+25	0.0939	0.21	Q V	|	|	|	|
6+30	0.0953	0.21	Q V	|	|	|	|
6+35	0.0968	0.21	Q V	|	|	|	|
6+40	0.0983	0.21	Q V	|	|	|	|
6+45	0.0998	0.22	Q V	|	|	|	|
6+50	0.1013	0.22	Q V	|	|	|	|
6+55	0.1027	0.22	Q V	|	|	|	|
7+ 0	0.1043	0.22	Q V	|	|	|	|

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 7+ 5       0.1058      0.22  Q    V    |         |         |         |
 7+10       0.1073      0.22  Q    V    |         |         |         |
 7+15       0.1088      0.22  Q    V    |         |         |         |
 7+20       0.1104      0.22  Q    V    |         |         |         |
 7+25       0.1119      0.23  Q    V    |         |         |         |
 7+30       0.1135      0.23  Q    V    |         |         |         |
 7+35       0.1151      0.23  Q    V    |         |         |         |
 7+40       0.1166      0.23  Q    V    |         |         |         |
 7+45       0.1182      0.23  Q    V    |         |         |         |
 7+50       0.1198      0.23  Q    V    |         |         |         |
 7+55       0.1214      0.23  Q     V   |         |         |         |
 8+ 0       0.1230      0.23  Q     V   |         |         |         |
 8+ 5       0.1247      0.24  Q     V   |         |         |         |
 8+10       0.1263      0.24  Q     V   |         |         |         |
 8+15       0.1279      0.24  Q     V   |         |         |         |
 8+20       0.1296      0.24  Q     V   |         |         |         |
 8+25       0.1313      0.24  Q     V   |         |         |         |
 8+30       0.1330      0.24  Q     V   |         |         |         |
 8+35       0.1346      0.25  Q     V   |         |         |         |
 8+40       0.1363      0.25  Q     V   |         |         |         |
 8+45       0.1381      0.25  Q     V   |         |         |         |
 8+50       0.1398      0.25  |Q    V   |         |         |         |
 8+55       0.1415      0.25  |Q     V  |         |         |         |
 9+ 0       0.1433      0.25  |Q     V  |         |         |         |
 9+ 5       0.1450      0.26  |Q     V  |         |         |         |
 9+10       0.1468      0.26  |Q     V  |         |         |         |
 9+15       0.1486      0.26  |Q     V  |         |         |         |
 9+20       0.1504      0.26  |Q     V  |         |         |         |
 9+25       0.1522      0.26  |Q     V  |         |         |         |
 9+30       0.1540      0.27  |Q     V  |         |         |         |
 9+35       0.1559      0.27  |Q     V  |         |         |         |
 9+40       0.1577      0.27  |Q     V  |         |         |         |
 9+45       0.1596      0.27  |Q     V  |         |         |         |
 9+50       0.1615      0.27  |Q      V |         |         |         |
 9+55       0.1634      0.28  |Q      V |         |         |         |
10+ 0       0.1653      0.28  |Q      V |         |         |         |
10+ 5       0.1672      0.28  |Q      V |         |         |         |
10+10       0.1692      0.28  |Q      V |         |         |         |
10+15       0.1711      0.29  |Q      V |         |         |         |
10+20       0.1731      0.29  |Q      V |         |         |         |
10+25       0.1751      0.29  |Q      V |         |         |         |
10+30       0.1771      0.29  |Q      V |         |         |         |
10+35       0.1792      0.30  |Q      V |         |         |         |
10+40       0.1812      0.30  |Q       V|         |         |         |
10+45       0.1833      0.30  |Q       V|         |         |         |
10+50       0.1854      0.30  |Q       V|         |         |         |
10+55       0.1875      0.31  |Q       V|         |         |         |
11+ 0       0.1896      0.31  |Q       V|         |         |         |
11+ 5       0.1918      0.31  |Q       V|         |         |         |
11+10       0.1940      0.32  |Q       V|         |         |         |
11+15       0.1961      0.32  |Q       V|         |         |         |
11+20       0.1984      0.32  |Q       V|         |         |         |
11+25       0.2006      0.33  |Q        V         |         |         |
11+30       0.2029      0.33  |Q        V         |         |         |
11+35       0.2052      0.33  |Q        V         |         |         |
11+40       0.2075      0.34  |Q        V         |         |         |
11+45       0.2098      0.34  |Q        V         |         |         |
11+50       0.2122      0.34  |Q        V         |         |         |
11+55       0.2146      0.35  |Q        V         |         |         |
12+ 0       0.2170      0.35  |Q        V         |         |         |
12+ 5       0.2196      0.37  |Q        V         |         |         |
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17+15	0.6479	0.66	Q			V
17+20	0.6523	0.64	Q			V
17+25	0.6566	0.62	Q			V
17+30	0.6607	0.60	Q			V
17+35	0.6647	0.59	Q			V
17+40	0.6687	0.57	Q			V
17+45	0.6725	0.56	Q			V
17+50	0.6762	0.54	Q			V
17+55	0.6799	0.53	Q			V
18+ 0	0.6835	0.52	Q			V
18+ 5	0.6869	0.49	Q			V
18+10	0.6898	0.42	Q			V
18+15	0.6923	0.36	Q			V
18+20	0.6947	0.35	Q			V
18+25	0.6970	0.34	Q			V
18+30	0.6993	0.33	Q			V
18+35	0.7015	0.32	Q			V
18+40	0.7037	0.32	Q			V
18+45	0.7058	0.31	Q			V
18+50	0.7079	0.31	Q			V
18+55	0.7100	0.30	Q			V
19+ 0	0.7120	0.29	Q			V
19+ 5	0.7140	0.29	Q			V
19+10	0.7160	0.28	Q			V
19+15	0.7179	0.28	Q			V
19+20	0.7198	0.27	Q			V
19+25	0.7217	0.27	Q			V
19+30	0.7235	0.27	Q			V
19+35	0.7253	0.26	Q			V
19+40	0.7271	0.26	Q			V
19+45	0.7288	0.26	Q			V
19+50	0.7306	0.25	Q			V
19+55	0.7323	0.25	Q			V
20+ 0	0.7340	0.24	Q			V
20+ 5	0.7356	0.24	Q			V
20+10	0.7373	0.24	Q			V
20+15	0.7389	0.24	Q			V
20+20	0.7405	0.23	Q			V
20+25	0.7421	0.23	Q			V
20+30	0.7437	0.23	Q			V
20+35	0.7452	0.22	Q			V
20+40	0.7467	0.22	Q			V
20+45	0.7482	0.22	Q			V
20+50	0.7497	0.22	Q			V
20+55	0.7512	0.21	Q			V
21+ 0	0.7527	0.21	Q			V
21+ 5	0.7541	0.21	Q			V
21+10	0.7556	0.21	Q			V
21+15	0.7570	0.21	Q			V
21+20	0.7584	0.20	Q			V
21+25	0.7598	0.20	Q			V
21+30	0.7612	0.20	Q			V
21+35	0.7625	0.20	Q			V
21+40	0.7639	0.20	Q			V
21+45	0.7652	0.19	Q			V
21+50	0.7666	0.19	Q			V
21+55	0.7679	0.19	Q			V
22+ 0	0.7692	0.19	Q			V
22+ 5	0.7705	0.19	Q			V
22+10	0.7718	0.19	Q			V
22+15	0.7730	0.18	Q			V

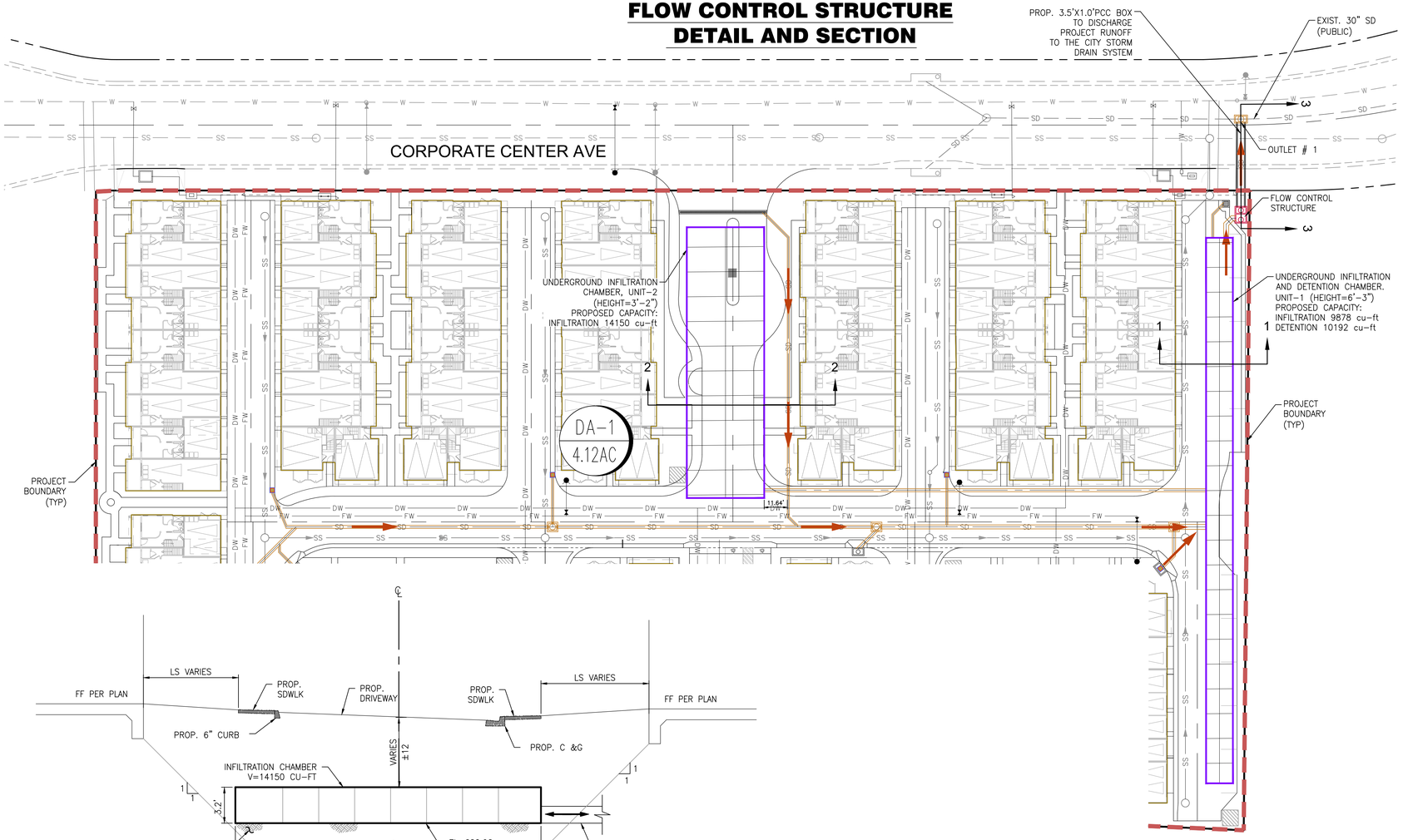
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   22+20       0.7743      0.18  Q         |         |         |       V |
   22+25       0.7755      0.18  Q         |         |         |       V |
   22+30       0.7768      0.18  Q         |         |         |       V |
   22+35       0.7780      0.18  Q         |         |         |       V |
   22+40       0.7792      0.18  Q         |         |         |        V|
   22+45       0.7805      0.18  Q         |         |         |        V|
   22+50       0.7817      0.17  Q         |         |         |        V|
   22+55       0.7829      0.17  Q         |         |         |        V|
   23+ 0       0.7841      0.17  Q         |         |         |        V|
   23+ 5       0.7852      0.17  Q         |         |         |        V|
   23+10       0.7864      0.17  Q         |         |         |        V|
   23+15       0.7876      0.17  Q         |         |         |        V|
   23+20       0.7887      0.17  Q         |         |         |        V|
   23+25       0.7899      0.17  Q         |         |         |        V|
   23+30       0.7910      0.17  Q         |         |         |        V|
   23+35       0.7921      0.16  Q         |         |         |        V|
   23+40       0.7932      0.16  Q         |         |         |        V|
   23+45       0.7944      0.16  Q         |         |         |        V|
   23+50       0.7955      0.16  Q         |         |         |        V|
   23+55       0.7966      0.16  Q         |         |         |        V|
   24+ 0       0.7977      0.16  Q         |         |         |        V|
   24+ 5       0.7986      0.14  Q         |         |         |        V|
   24+10       0.7990      0.06  Q         |         |         |        V|
   24+15       0.7991      0.01  Q         |         |         |        V|
   24+20       0.7991      0.00  Q         |         |         |         V
----------------------------------------------------------------------
```

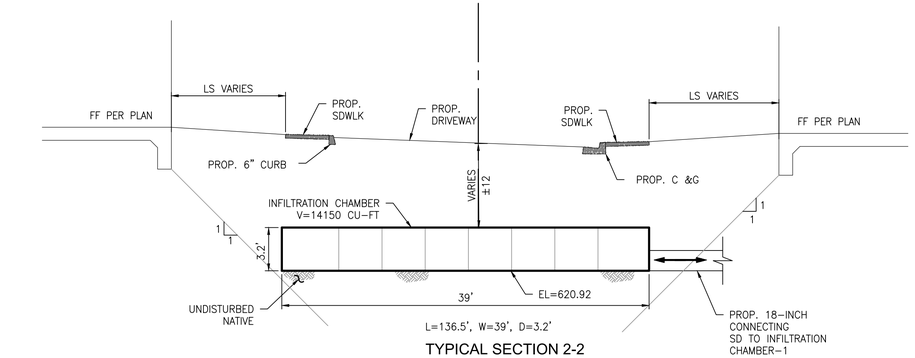
APPENDIX 5

DETENTION BASIN CHARACHTERISTICS
ROUTING CALCULATION
WEIR CAPACITY CALCULATION FOR FLOW CONTROL STRUCTURE
BOX PIPE CAPACITY CALCULATION

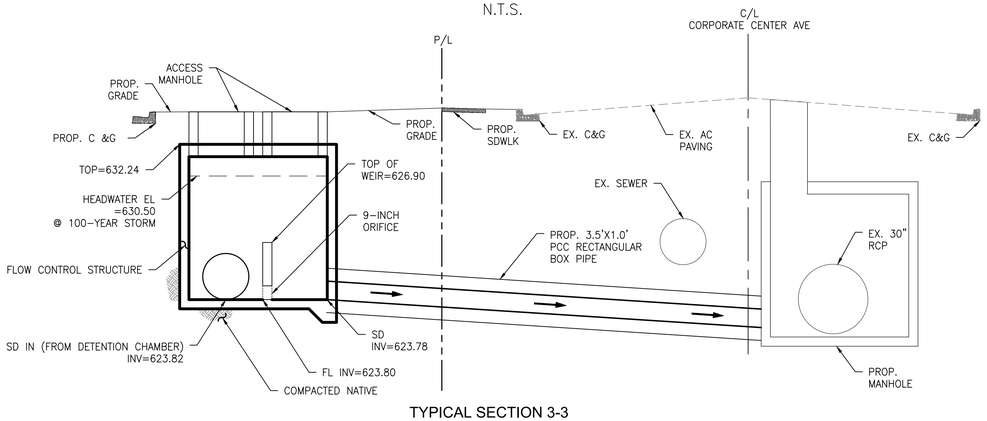
Storage Volume (Unit-1)	Orifice Dia (in)	Total Depth	Water Head (Above Inflt. Basin)	Effective Head (ft)	Flow in cfs (1~Orifice at Invert)	Total Storage Volume	Storage Volume Detention
V (1)	d1	H	Hd	h1	q1	ac-ft	ac-ft
13354	9	4.25	1.05	0.7	1.75	0.307	0.076
16558	9	5.25	2.05	1.7	2.75	0.380	0.148
20070	9	6.25	3.05	2.7	3.48	0.461	0.225
23366	9	7.25	4.05	3.7	4.08	0.536	0.300
26546	9	8.25	5.05	4.7	4.60	0.609	0.373
27456	9	8.5	5.30	4.9	4.72	0.630	0.393

UNDERGROUND CHAMBER AND FLOW CONTROL STRUCTURE DETAIL AND SECTION

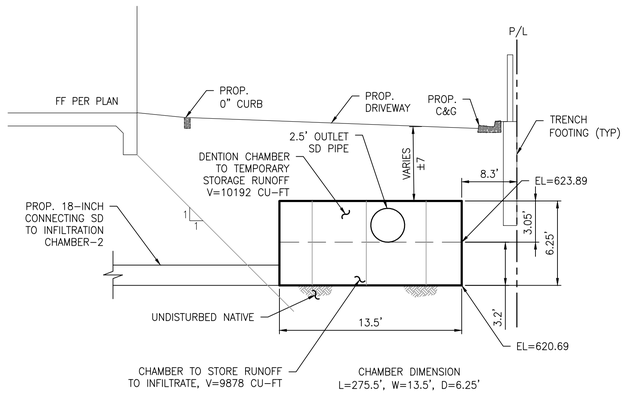




TYPICAL SECTION 2-2
INFILTRATION CHAMBER UNIT 2
N.T.S.



TYPICAL SECTION 3-3
FLOW CONTROL STRUCTURE
N.T.S.



TYPICAL SECTION 1-1
INFILTRATION AND DETENTION CHAMBER UNIT 1
N.T.S.

HYDROMOD MITIGATION VOLUME, FLOW AND TC

VOLUME SUMMARY		
V2 (24-Hour, 2-Year Pre-Development)	0.1836	ac-ft
V2 (24-Hour, 2-Year Post-Development)	0.7991	ac-ft
Delta V2 (Pre vs Post)	0.5755	ac-ft
Delta V2	25071	cu-ft
Volume proposed to be retaining on site =	25818	cu-ft

FLOW RATE (TO MITIGATE VELOCITY)		
Q2 (Pre-Development) =	2.51	cfs
Q2 (Post-Development) =	6.757	cfs
Q2 reduction to meet HCOC requirements	3.91	cfs
Max. Q2 allowed from site =	2.85	cfs
Actual Q2 leaving site =	2.32	cfs

STAGE STORAGE AND FLOW TABLE FOR DETENTION BASIN

Storage Volume (Unit-1)	Orifice Dia (in)	Total Depth	Water Head (Above Inflt. Basin)	Effective Head (ft)	Flow in cfs (1"Orifice at Invert)	Total Storage Volume	Storage Volume Detention
V (1)	d1	H	Hd	h1	q1	ac-ft	ac-ft
13354	9	4.25	1.05	0.7	1.75	0.307	0.076
16558	9	5.25	2.05	1.7	2.75	0.380	0.148
20070	9	6.25	3.05	2.7	3.48	0.461	0.225
23366	9	7.25	4.05	3.7	4.08	0.536	0.300
26546	9	8.25	5.05	4.7	4.60	0.609	0.373
27456	9	8.5	5.30	4.9	4.72	0.630	0.393

N

Scale: 1" = 30'
Exhibit Date:2.05.25

CHINO COPORATE CENTER
SOUTHWEST OF
CORPORATE CENTER AVENUE
CHINO, CA 91710

FUSCOE ENGINEERING
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Ontario, California 91761
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fuscoe.com

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014
Study date: 01/31/25

RETARDING BASIN SIZING CALCULATION
HMOD PEAK FLOW MITIGATION
2-YEAR STORM EVENT
FUSCOE ENGINEERING

Program License Serial Number 6103

********** HYDROGRAPH INFORMATION **********

From study/file name: 4200001UHPROP02.rte
**********HYDROGRAPH DATA**********
Number of intervals = 292
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 6.755 (CFS)
Total volume = 0.799 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

++
Process from Point/Station 1.010 to Point/Station 1.020
**** RETARDING BASIN ROUTING ****
_____

User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 292
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.050	0.076	1.750	0.070	0.082
2.050	0.148	2.750	0.139	0.157
3.050	0.225	3.480	0.213	0.237
4.050	0.300	4.080	0.286	0.314

5.050	0.373	4.600	0.357	0.389
5.300	0.393	4.720	0.377	0.409

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	1.7	3.38	5.07	6.76	Depth (Ft.)
0.083	0.02	0.00	0.000	O	|	|	|	|	0.00
0.167	0.10	0.01	0.000	O	|	|	|	|	0.01
0.250	0.15	0.03	0.001	O	|	|	|	|	0.02
0.333	0.16	0.04	0.002	O	|	|	|	|	0.03
0.417	0.16	0.06	0.003	O	|	|	|	|	0.04
0.500	0.16	0.07	0.003	O	|	|	|	|	0.04
0.583	0.16	0.09	0.004	O	|	|	|	|	0.05
0.667	0.16	0.10	0.004	O	|	|	|	|	0.06
0.750	0.16	0.11	0.005	O	|	|	|	|	0.06
0.833	0.16	0.11	0.005	O	|	|	|	|	0.07
0.917	0.16	0.12	0.005	O	|	|	|	|	0.07
1.000	0.16	0.13	0.006	O	|	|	|	|	0.08
1.083	0.16	0.13	0.006	O	|	|	|	|	0.08
1.167	0.16	0.14	0.006	O	|	|	|	|	0.08
1.250	0.16	0.14	0.006	O	|	|	|	|	0.08
1.333	0.16	0.14	0.006	O	|	|	|	|	0.09
1.417	0.16	0.15	0.006	O	|	|	|	|	0.09
1.500	0.16	0.15	0.006	O	|	|	|	|	0.09
1.583	0.17	0.15	0.007	O	|	|	|	|	0.09
1.667	0.17	0.15	0.007	O	|	|	|	|	0.09
1.750	0.17	0.16	0.007	O	|	|	|	|	0.09
1.833	0.17	0.16	0.007	O	|	|	|	|	0.09
1.917	0.17	0.16	0.007	O	|	|	|	|	0.10
2.000	0.17	0.16	0.007	O	|	|	|	|	0.10
2.083	0.17	0.16	0.007	O	|	|	|	|	0.10
2.167	0.17	0.16	0.007	O	|	|	|	|	0.10
2.250	0.17	0.16	0.007	O	|	|	|	|	0.10
2.333	0.17	0.16	0.007	O	|	|	|	|	0.10
2.417	0.17	0.17	0.007	O	|	|	|	|	0.10
2.500	0.17	0.17	0.007	O	|	|	|	|	0.10
2.583	0.17	0.17	0.007	O	|	|	|	|	0.10
2.667	0.17	0.17	0.007	O	|	|	|	|	0.10
2.750	0.17	0.17	0.007	O	|	|	|	|	0.10
2.833	0.17	0.17	0.007	O	|	|	|	|	0.10
2.917	0.18	0.17	0.007	O	|	|	|	|	0.10
3.000	0.18	0.17	0.007	O	|	|	|	|	0.10
3.083	0.18	0.17	0.007	O	|	|	|	|	0.10
3.167	0.18	0.17	0.007	O	|	|	|	|	0.10
3.250	0.18	0.17	0.008	O	|	|	|	|	0.10
3.333	0.18	0.17	0.008	O	|	|	|	|	0.10
3.417	0.18	0.17	0.008	O	|	|	|	|	0.10
3.500	0.18	0.18	0.008	O	|	|	|	|	0.11
3.583	0.18	0.18	0.008	O	|	|	|	|	0.11
3.667	0.18	0.18	0.008	O	|	|	|	|	0.11
3.750	0.18	0.18	0.008	O	|	|	|	|	0.11
3.833	0.18	0.18	0.008	O	|	|	|	|	0.11
3.917	0.18	0.18	0.008	O	|	|	|	|	0.11
4.000	0.18	0.18	0.008	O	|	|	|	|	0.11
4.083	0.19	0.18	0.008	O	|	|	|	|	0.11
4.167	0.19	0.18	0.008	O	|	|	|	|	0.11
4.250	0.19	0.18	0.008	O	|	|	|	|	0.11

4.333	0.19	0.18	0.008	O				0.11
4.417	0.19	0.18	0.008	O				0.11
4.500	0.19	0.18	0.008	O				0.11
4.583	0.19	0.19	0.008	O				0.11
4.667	0.19	0.19	0.008	O				0.11
4.750	0.19	0.19	0.008	O				0.11
4.833	0.19	0.19	0.008	O				0.11
4.917	0.19	0.19	0.008	O				0.11
5.000	0.19	0.19	0.008	O				0.11
5.083	0.20	0.19	0.008	O				0.11
5.167	0.20	0.19	0.008	O				0.11
5.250	0.20	0.19	0.008	O				0.11
5.333	0.20	0.19	0.008	O				0.12
5.417	0.20	0.19	0.008	O				0.12
5.500	0.20	0.19	0.008	O				0.12
5.583	0.20	0.20	0.008	O				0.12
5.667	0.20	0.20	0.009	O				0.12
5.750	0.20	0.20	0.009	O				0.12
5.833	0.20	0.20	0.009	O				0.12
5.917	0.20	0.20	0.009	O				0.12
6.000	0.21	0.20	0.009	O				0.12
6.083	0.21	0.20	0.009	O				0.12
6.167	0.21	0.20	0.009	O				0.12
6.250	0.21	0.20	0.009	O				0.12
6.333	0.21	0.20	0.009	O				0.12
6.417	0.21	0.20	0.009	O				0.12
6.500	0.21	0.21	0.009	OI				0.12
6.583	0.21	0.21	0.009	OI				0.12
6.667	0.21	0.21	0.009	OI				0.12
6.750	0.22	0.21	0.009	OI				0.13
6.833	0.22	0.21	0.009	OI				0.13
6.917	0.22	0.21	0.009	OI				0.13
7.000	0.22	0.21	0.009	|O				0.13
7.083	0.22	0.21	0.009	|O				0.13
7.167	0.22	0.21	0.009	|O				0.13
7.250	0.22	0.22	0.009	|O				0.13
7.333	0.22	0.22	0.009	|O				0.13
7.417	0.23	0.22	0.009	|O				0.13
7.500	0.23	0.22	0.010	|O				0.13
7.583	0.23	0.22	0.010	|O				0.13
7.667	0.23	0.22	0.010	|O				0.13
7.750	0.23	0.22	0.010	|O				0.13
7.833	0.23	0.22	0.010	|O				0.13
7.917	0.23	0.23	0.010	|O				0.14
8.000	0.23	0.23	0.010	|O				0.14
8.083	0.24	0.23	0.010	|O				0.14
8.167	0.24	0.23	0.010	|O				0.14
8.250	0.24	0.23	0.010	|O				0.14
8.333	0.24	0.23	0.010	|O				0.14
8.417	0.24	0.23	0.010	|O				0.14
8.500	0.24	0.23	0.010	|O				0.14
8.583	0.25	0.24	0.010	|O				0.14
8.667	0.25	0.24	0.010	|O				0.14
8.750	0.25	0.24	0.010	|O				0.14
8.833	0.25	0.24	0.010	|O				0.14
8.917	0.25	0.24	0.011	|O				0.15
9.000	0.25	0.24	0.011	|O				0.15
9.083	0.26	0.25	0.011	|O				0.15
9.167	0.26	0.25	0.011	|O				0.15
9.250	0.26	0.25	0.011	|O				0.15
9.333	0.26	0.25	0.011	|O				0.15

9.417	0.26	0.25	0.011	O				0.15
9.500	0.27	0.25	0.011	O				0.15
9.583	0.27	0.26	0.011	O				0.15
9.667	0.27	0.26	0.011	O				0.15
9.750	0.27	0.26	0.011	O				0.16
9.833	0.27	0.26	0.011	O				0.16
9.917	0.28	0.26	0.011	O				0.16
10.000	0.28	0.27	0.012	O				0.16
10.083	0.28	0.27	0.012	O				0.16
10.167	0.28	0.27	0.012	O				0.16
10.250	0.29	0.27	0.012	O				0.16
10.333	0.29	0.27	0.012	O				0.16
10.417	0.29	0.28	0.012	O				0.17
10.500	0.29	0.28	0.012	O				0.17
10.583	0.30	0.28	0.012	O				0.17
10.667	0.30	0.28	0.012	O				0.17
10.750	0.30	0.29	0.012	O				0.17
10.833	0.30	0.29	0.012	O				0.17
10.917	0.31	0.29	0.013	O				0.17
11.000	0.31	0.29	0.013	O				0.18
11.083	0.31	0.30	0.013	O				0.18
11.167	0.32	0.30	0.013	O				0.18
11.250	0.32	0.30	0.013	O				0.18
11.333	0.32	0.30	0.013	O				0.18
11.417	0.33	0.31	0.013	O				0.18
11.500	0.33	0.31	0.013	O				0.19
11.583	0.33	0.31	0.014	O				0.19
11.667	0.34	0.32	0.014	O				0.19
11.750	0.34	0.32	0.014	O				0.19
11.833	0.34	0.32	0.014	O				0.19
11.917	0.35	0.33	0.014	O				0.20
12.000	0.35	0.33	0.014	O				0.20
12.083	0.37	0.33	0.015	O				0.20
12.167	0.44	0.35	0.015	OI				0.21
12.250	0.49	0.36	0.016	OI				0.22
12.333	0.50	0.38	0.017	OI				0.23
12.417	0.51	0.40	0.017	OI				0.24
12.500	0.52	0.42	0.018	OI				0.25
12.583	0.52	0.43	0.019	O				0.26
12.667	0.53	0.45	0.019	O				0.27
12.750	0.53	0.46	0.020	O				0.28
12.833	0.54	0.47	0.020	O				0.28
12.917	0.55	0.48	0.021	O				0.29
13.000	0.55	0.49	0.021	O				0.29
13.083	0.56	0.50	0.022	O				0.30
13.167	0.57	0.51	0.022	O				0.31
13.250	0.57	0.52	0.023	O				0.31
13.333	0.58	0.53	0.023	O				0.32
13.417	0.59	0.54	0.023	O				0.32
13.500	0.60	0.54	0.024	O				0.33
13.583	0.61	0.55	0.024	O				0.33
13.667	0.62	0.56	0.024	O				0.34
13.750	0.62	0.57	0.025	O				0.34
13.833	0.63	0.58	0.025	OI				0.35
13.917	0.64	0.59	0.026	OI				0.35
14.000	0.66	0.60	0.026	OI				0.36
14.083	0.67	0.61	0.026	OI				0.36
14.167	0.68	0.62	0.027	OI				0.37
14.250	0.69	0.63	0.027	OI				0.38
14.333	0.71	0.64	0.028	O				0.38
14.417	0.72	0.65	0.028	O				0.39

PEAK INFLOW AND HOUR FOR 2-YEAR, 24-HOUR STORM

14.500	0.74	0.66	0.029	O				0.40
14.583	0.76	0.67	0.029	O				0.40
14.667	0.78	0.69	0.030	O				0.41
14.750	0.80	0.70	0.030	O				0.42
14.833	0.82	0.72	0.031	O				0.43
14.917	0.84	0.73	0.032	O				0.44
15.000	0.87	0.75	0.033	OI				0.45
15.083	0.90	0.77	0.034	OI				0.46
15.167	0.93	0.79	0.034	OI				0.48
15.250	0.97	0.82	0.035	OI				0.49
15.333	1.01	0.84	0.037	OI				0.50
15.417	1.03	0.87	0.038	O				0.52
15.500	0.94	0.88	0.038	O				0.53
15.583	0.91	0.89	0.039	O				0.53
15.667	0.98	0.90	0.039	O				0.54
15.750	1.09	0.92	0.040	OI				0.55
15.833	1.27	0.96	0.042	O I				0.57
15.917	1.53	1.02	0.044	O I				0.61
16.000	2.09	1.14	0.049	O	I			0.68
16.083	3.61	1.39	0.060	O		I		0.83
16.167	6.76	1.87	0.085	O			I	1.17
16.250	4.62	2.22	0.110		O	I		1.52
16.333	1.92	2.32	0.117		IO			1.62
16.417	1.23	2.25	0.112	I	O			1.55
16.500	1.06	2.15	0.105	I	O			1.45
16.583	1.03	2.05	0.097	I	O			1.35
16.667	0.95	1.95	0.091	I	O			1.25
16.750	0.89	1.86	0.084	I	O			1.16
16.833	0.83	1.77	0.077	I	O			1.07
16.917	0.79	1.64	0.071	I	O			0.98
17.000	0.75	1.51	0.066	I	O			0.91
17.083	0.72	1.40	0.061	I	O			0.84
17.167	0.69	1.29	0.056	I	O			0.78
17.250	0.66	1.20	0.052	I	O			0.72
17.333	0.64	1.12	0.049	I	O			0.67
17.417	0.62	1.05	0.046	I	O			0.63
17.500	0.60	0.99	0.043	I	O			0.59
17.583	0.59	0.93	0.040	I	O			0.56
17.667	0.57	0.88	0.038	I	O			0.53
17.750	0.56	0.83	0.036	IO				0.50
17.833	0.54	0.79	0.034	IO				0.47
17.917	0.53	0.75	0.033	IO				0.45
18.000	0.52	0.72	0.031	IO				0.43
18.083	0.49	0.69	0.030	IO				0.41
18.167	0.42	0.65	0.028	I O				0.39
18.250	0.36	0.62	0.027	IO				0.37
18.333	0.35	0.58	0.025	IO				0.35
18.417	0.34	0.54	0.024	IO				0.33
18.500	0.33	0.51	0.022	IO				0.31
18.583	0.32	0.49	0.021	IO				0.29
18.667	0.32	0.46	0.020	IO				0.28
18.750	0.31	0.44	0.019	IO				0.26
18.833	0.31	0.42	0.018	O				0.25
18.917	0.30	0.40	0.017	O				0.24
19.000	0.29	0.39	0.017	O				0.23
19.083	0.29	0.37	0.016	O				0.22
19.167	0.28	0.36	0.016	O				0.22
19.250	0.28	0.35	0.015	O				0.21
19.333	0.27	0.34	0.015	O				0.20
19.417	0.27	0.33	0.014	O				0.20
19.500	0.27	0.32	0.014	O				0.19

PEAK OUTFLOW AND HOUR FOR 2-YEAR, 24-HOUR STORM

19.583	0.26	0.31	0.014	|O	|	|	|	0.19
19.667	0.26	0.30	0.013	|O	|	|	|	0.18
19.750	0.26	0.30	0.013	|O	|	|	|	0.18
19.833	0.25	0.29	0.013	|O	|	|	|	0.17
19.917	0.25	0.28	0.012	|O	|	|	|	0.17
20.000	0.24	0.28	0.012	|O	|	|	|	0.17
20.083	0.24	0.27	0.012	|O	|	|	|	0.16
20.167	0.24	0.27	0.012	|O	|	|	|	0.16
20.250	0.24	0.26	0.011	|O	|	|	|	0.16
20.333	0.23	0.26	0.011	|O	|	|	|	0.16
20.417	0.23	0.26	0.011	|O	|	|	|	0.15
20.500	0.23	0.25	0.011	|O	|	|	|	0.15
20.583	0.22	0.25	0.011	|O	|	|	|	0.15
20.667	0.22	0.24	0.011	|O	|	|	|	0.15
20.750	0.22	0.24	0.010	|O	|	|	|	0.14
20.833	0.22	0.24	0.010	|O	|	|	|	0.14
20.917	0.21	0.23	0.010	|O	|	|	|	0.14
21.000	0.21	0.23	0.010	|O	|	|	|	0.14
21.083	0.21	0.23	0.010	IO	|	|	|	0.14
21.167	0.21	0.23	0.010	IO	|	|	|	0.14
21.250	0.21	0.22	0.010	IO	|	|	|	0.13
21.333	0.20	0.22	0.010	IO	|	|	|	0.13
21.417	0.20	0.22	0.009	IO	|	|	|	0.13
21.500	0.20	0.22	0.009	IO	|	|	|	0.13
21.583	0.20	0.21	0.009	IO	|	|	|	0.13
21.667	0.20	0.21	0.009	O	|	|	|	0.13
21.750	0.19	0.21	0.009	O	|	|	|	0.13
21.833	0.19	0.21	0.009	O	|	|	|	0.12
21.917	0.19	0.20	0.009	O	|	|	|	0.12
22.000	0.19	0.20	0.009	O	|	|	|	0.12
22.083	0.19	0.20	0.009	O	|	|	|	0.12
22.167	0.19	0.20	0.009	O	|	|	|	0.12
22.250	0.18	0.20	0.009	O	|	|	|	0.12
22.333	0.18	0.19	0.008	O	|	|	|	0.12
22.417	0.18	0.19	0.008	O	|	|	|	0.12
22.500	0.18	0.19	0.008	O	|	|	|	0.11
22.583	0.18	0.19	0.008	O	|	|	|	0.11
22.667	0.18	0.19	0.008	O	|	|	|	0.11
22.750	0.18	0.19	0.008	O	|	|	|	0.11
22.833	0.17	0.18	0.008	O	|	|	|	0.11
22.917	0.17	0.18	0.008	O	|	|	|	0.11
23.000	0.17	0.18	0.008	O	|	|	|	0.11
23.083	0.17	0.18	0.008	O	|	|	|	0.11
23.167	0.17	0.18	0.008	O	|	|	|	0.11
23.250	0.17	0.18	0.008	O	|	|	|	0.11
23.333	0.17	0.18	0.008	O	|	|	|	0.11
23.417	0.17	0.17	0.008	O	|	|	|	0.10
23.500	0.17	0.17	0.008	O	|	|	|	0.10
23.583	0.16	0.17	0.007	O	|	|	|	0.10
23.667	0.16	0.17	0.007	O	|	|	|	0.10
23.750	0.16	0.17	0.007	O	|	|	|	0.10
23.833	0.16	0.17	0.007	O	|	|	|	0.10
23.917	0.16	0.17	0.007	O	|	|	|	0.10
24.000	0.16	0.17	0.007	O	|	|	|	0.10
24.083	0.14	0.16	0.007	O	|	|	|	0.10
24.167	0.06	0.15	0.007	O	|	|	|	0.09
24.250	0.01	0.14	0.006	O	|	|	|	0.08
24.333	0.00	0.12	0.005	O	|	|	|	0.07
24.417	0.00	0.10	0.004	O	|	|	|	0.06
24.500	0.00	0.09	0.004	O	|	|	|	0.05
24.583	0.00	0.07	0.003	O	|	|	|	0.04

24.667	0.00	0.06	0.003	O	|	|	|	|	0.04
24.750	0.00	0.05	0.002	O	|	|	|	|	0.03
24.833	0.00	0.05	0.002	O	|	|	|	|	0.03
24.917	0.00	0.04	0.002	O	|	|	|	|	0.02
25.000	0.00	0.03	0.001	O	|	|	|	|	0.02
25.083	0.00	0.03	0.001	O	|	|	|	|	0.02
25.167	0.00	0.02	0.001	O	|	|	|	|	0.01
25.250	0.00	0.02	0.001	O	|	|	|	|	0.01
25.333	0.00	0.02	0.001	O	|	|	|	|	0.01
25.417	0.00	0.01	0.001	O	|	|	|	|	0.01
25.500	0.00	0.01	0.001	O	|	|	|	|	0.01
25.583	0.00	0.01	0.000	O	|	|	|	|	0.01
25.667	0.00	0.01	0.000	O	|	|	|	|	0.01
25.750	0.00	0.01	0.000	O	|	|	|	|	0.00
25.833	0.00	0.01	0.000	O	|	|	|	|	0.00
25.917	0.00	0.01	0.000	O	|	|	|	|	0.00
26.000	0.00	0.00	0.000	O	|	|	|	|	0.00
26.083	0.00	0.00	0.000	O	|	|	|	|	0.00
26.167	0.00	0.00	0.000	O	|	|	|	|	0.00
26.250	0.00	0.00	0.000	O	|	|	|	|	0.00
26.333	0.00	0.00	0.000	O	|	|	|	|	0.00
26.417	0.00	0.00	0.000	O	|	|	|	|	0.00
26.500	0.00	0.00	0.000	O	|	|	|	|	0.00
26.583	0.00	0.00	0.000	O	|	|	|	|	0.00

**********HYDROGRAPH DATA**********

Number of intervals = 319
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 2.317 (CFS)
Total volume = 0.799 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

Worksheet for Control Box Weir

Project Description	
Solve For	Discharge

Input Data	
Headwater Elevation	630.50 ft
Crest Elevation	626.90 ft
Tailwater Elevation	624.71 ft
Weir Coefficient	0.60 ft^(1/2)/s
Crest Length	5.0 ft
Number Of Contractions	2

Results	
Discharge	17.54 cfs
Headwater Height Above Crest	3.60 ft
Tailwater Height Above Crest	-2.19 ft
Flow Area	18.0 ft²
Velocity	0.97 ft/s
Wetted Perimeter	12.2 ft
Top Width	5.00 ft

Worksheet for 3.5X1-Box Pipe

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Roughness Coefficient	0.015
Channel Slope	0.005 ft/ft
Height	1.0 ft
Bottom Width	3.50 ft
Discharge	17.32 cfs

Results	
Normal Depth	11.6 in
Flow Area	3.4 ft²
Wetted Perimeter	5.4 ft
Hydraulic Radius	7.5 in
Top Width	3.50 ft
Critical Depth	11.0 in
Percent Full	96.8 %
Critical Slope	0.006 ft/ft
Velocity	5.11 ft/s
Velocity Head	0.41 ft
Specific Energy	1.37 ft
Froude Number	0.916
Discharge Full	13.06 cfs
Slope Full	0.005 ft/ft
Flow Type	Subcritical

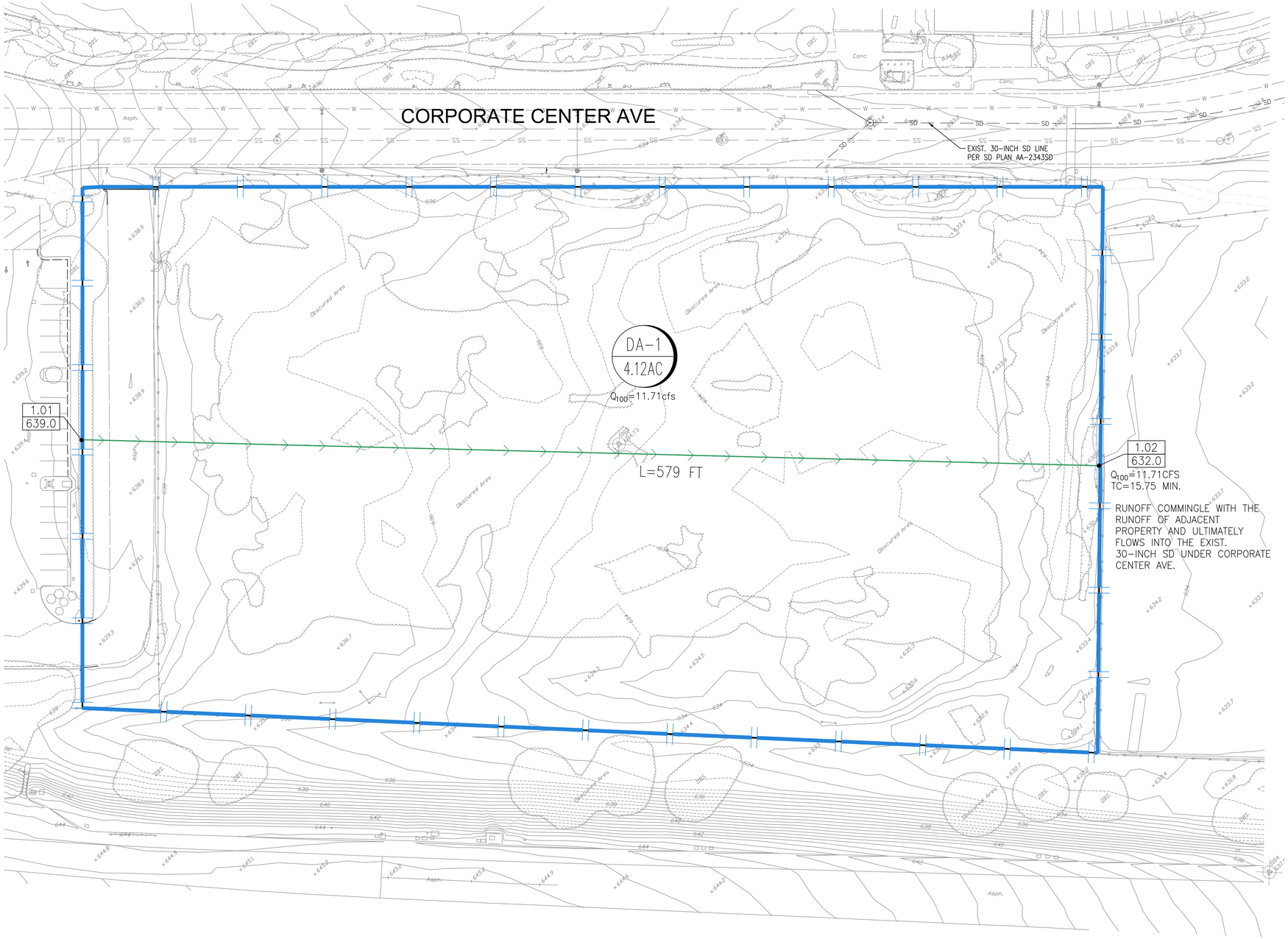
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0

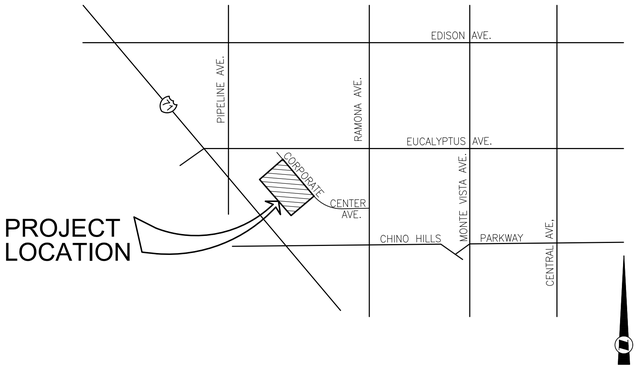
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	70.5 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	11.6 in
Critical Depth	11.0 in
Channel Slope	0.005 ft/ft
Critical Slope	0.006 ft/ft

APPENDIX 6

HYDROLOGY MAPS:
PRE AND POST DEVELOPMENT CONDITION
RATIONAL METHOD
UNIT HYDROGRAPH METHOD

PRE DEVELOPMENT DRAINAGE MAP
CHINO CORPORATE
CHINO, CA





VICINITY MAP
NOT TO SCALE

LEGEND

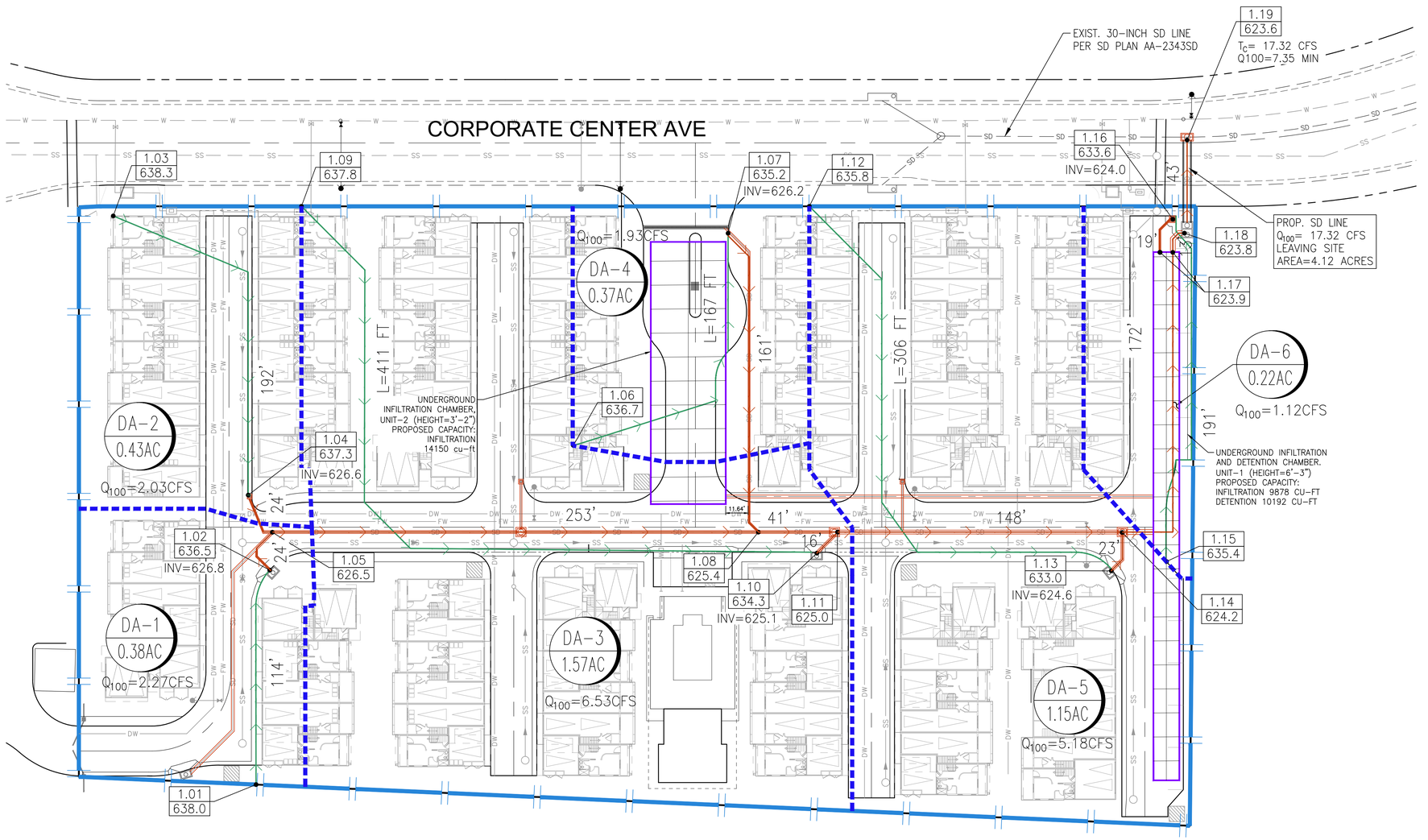
PROJECT /DRAINAGE BOUNDARY	
DA# / X AC (SUB-AREA (ACRES), SUB AREA)	DRAINAGE AREA ID AND INFO.
# / EL (NODE# POINT ELEVATION)	NODE ID AND ELEVATION
RUNOFF CONVEYANCE LINE (SURFACE)	
L=XXX'	RUNOFF CONVEYANCE LENGTH

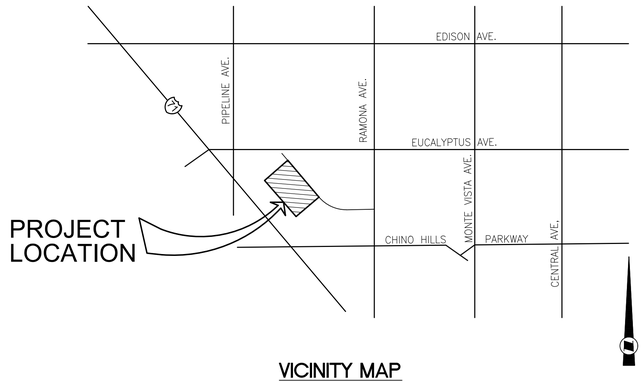
Scale: 1" = 30'
Exhibit Date:2.05.25

CHINO COPORATE CENTER
SOUTHWEST OF
CORPORATE CENTER AVENUE
CHINO, CA 91710

FUSCOE ENGINEERING
3257 E Guasti Rd, Suite 300
Ontario, California 91761
909.581.0676
fuscoe.com

POST DEVELOPMENT DRAINAGE MAP
CHINO CORPORATE CENTER
CHINO, CA





VICINITY MAP
NOT TO SCALE

LEGEND

- PROJECT BOUNDARY
- DRAINAGE AREA BOUNDARY
- DA# / X AC / SUB AREA — SUB-AREA (ACRES), SUB AREA — DRAINAGE AREA ID AND INFO.
- # / EL — NODE# / POINT ELEVATION — NODE ID AND ELEVATION
- RUNOFF CONVEYANCE LINE (SURFACE)
- RUNOFF CONVEYANCE LINE (PIPE)
- L=XXX' — RUNOFF CONVEYANCE LENGTH
- PROP. STORM DRAIN SYSTEM
- UNDERGROUND STORAGE CHAMBER TO MITIGATE HYDROMODIFICATION REQUIREMENTS

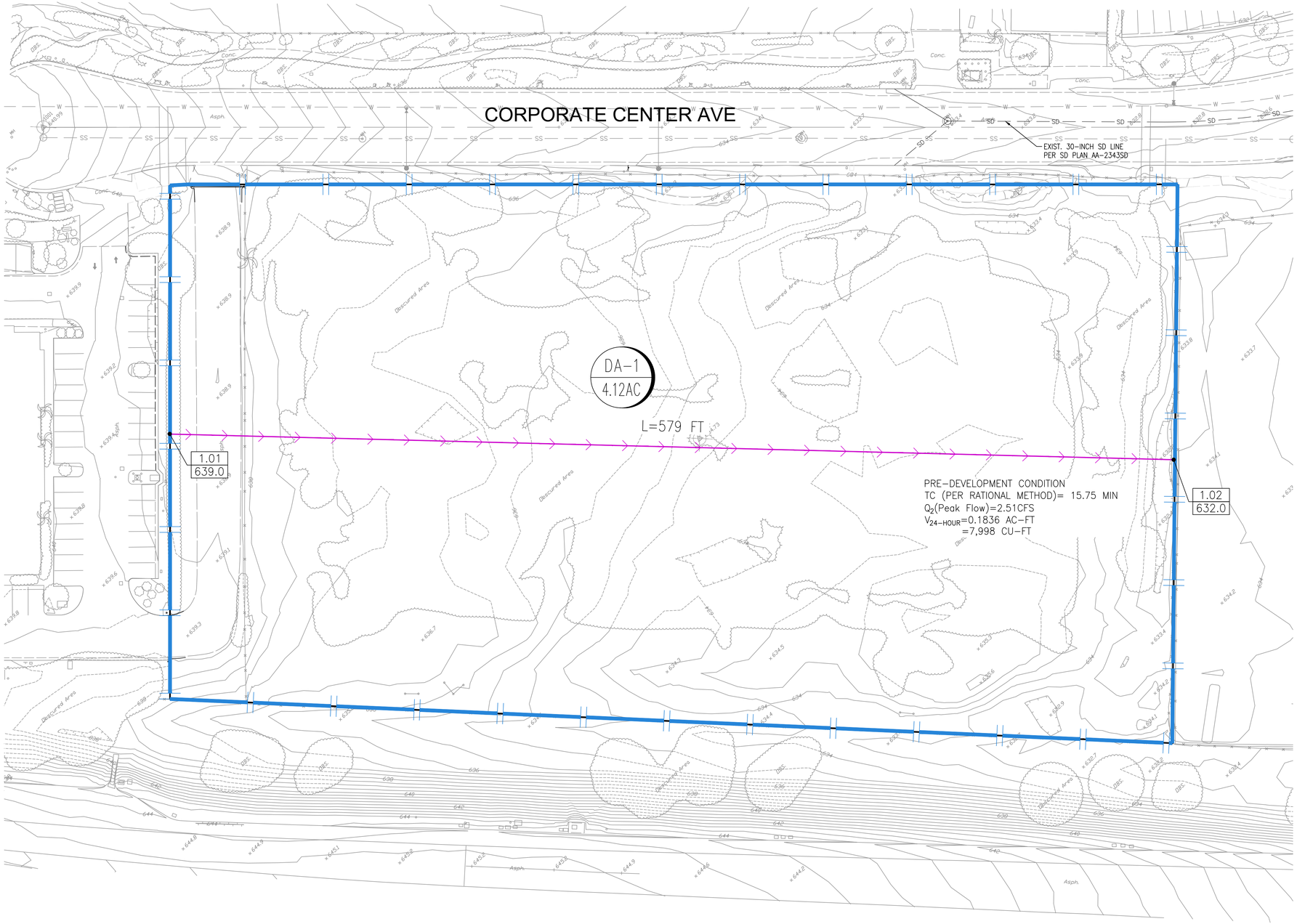
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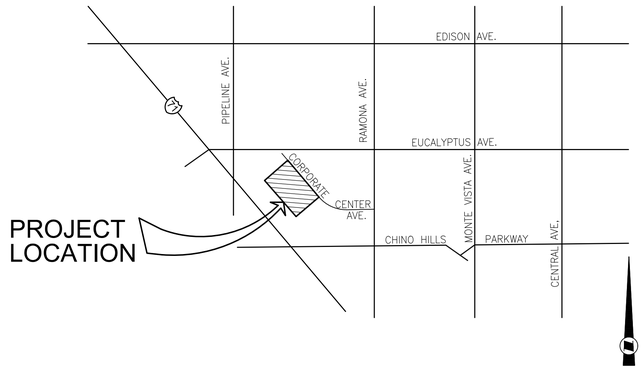
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SOUTHWEST OF
CORPORATE CENTER AVENUE
CHINO, CA 91710

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PRE DEVELOPMENT DRAINAGE MAP
UNIT HYDROGRAPH METHOD
CHINO CORPORATE
CHINO, CA

2-YEAR STORM EVENT





VICINITY MAP
NOT TO SCALE

LEGEND

	PROJECT BOUNDARY
DA# / X AC (SUB-AREA (ACRES), SUB AREA)	DRAINAGE AREA ID AND INFO.
# / EL (NODE#, POINT ELEVATION)	NODE ID AND ELEVATION
	RUNOFF CONVEYANCE LINE
L=XXX'	RUNOFF CONVEYANCE LENGTH

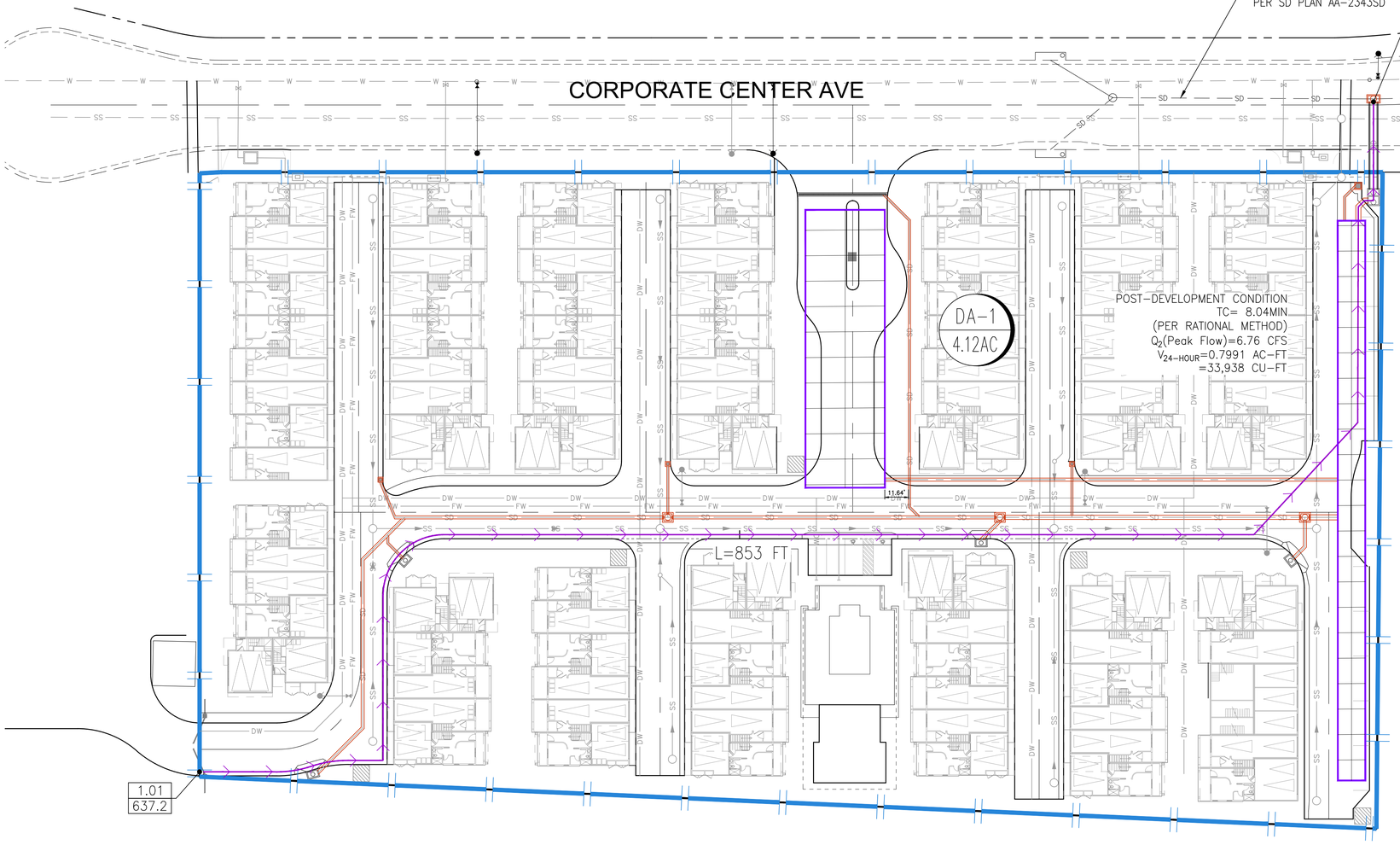
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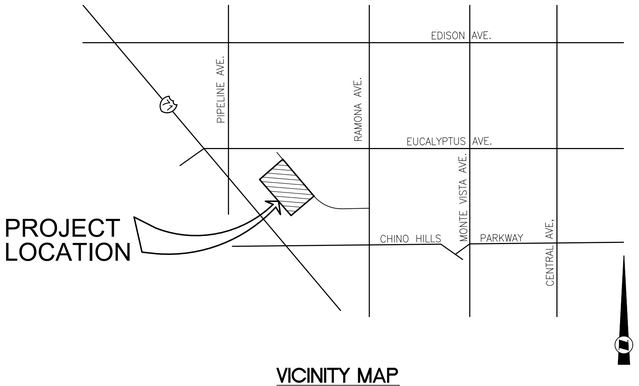
CHINO COPORATE CENTER
SOUTHWEST OF
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CHINO, CA 91710

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POST DEVELOPMENT DRAINAGE MAP
UNIT HYDROGRAPH METHOD
CHINO CORPORATE
CHINO, CA

2-YEAR STORM EVENT





VICINITY MAP
NOT TO SCALE

LEGEND

PROJECT BOUNDARY

DA# / X AC — SUB-AREA (ACRES) / SUB AREA — DRAINAGE AREA ID AND INFO.

/ EL — NODE# / POINT ELEVATION — NODE ID AND ELEVATION

L=XXX' — RUNOFF CONVEYANCE LINE / RUNOFF CONVEYANCE LENGTH

UNDERGROUND STORAGE CHAMBER TO MITIGATE HYDROMODIFICATION REQUIREMENTS

N

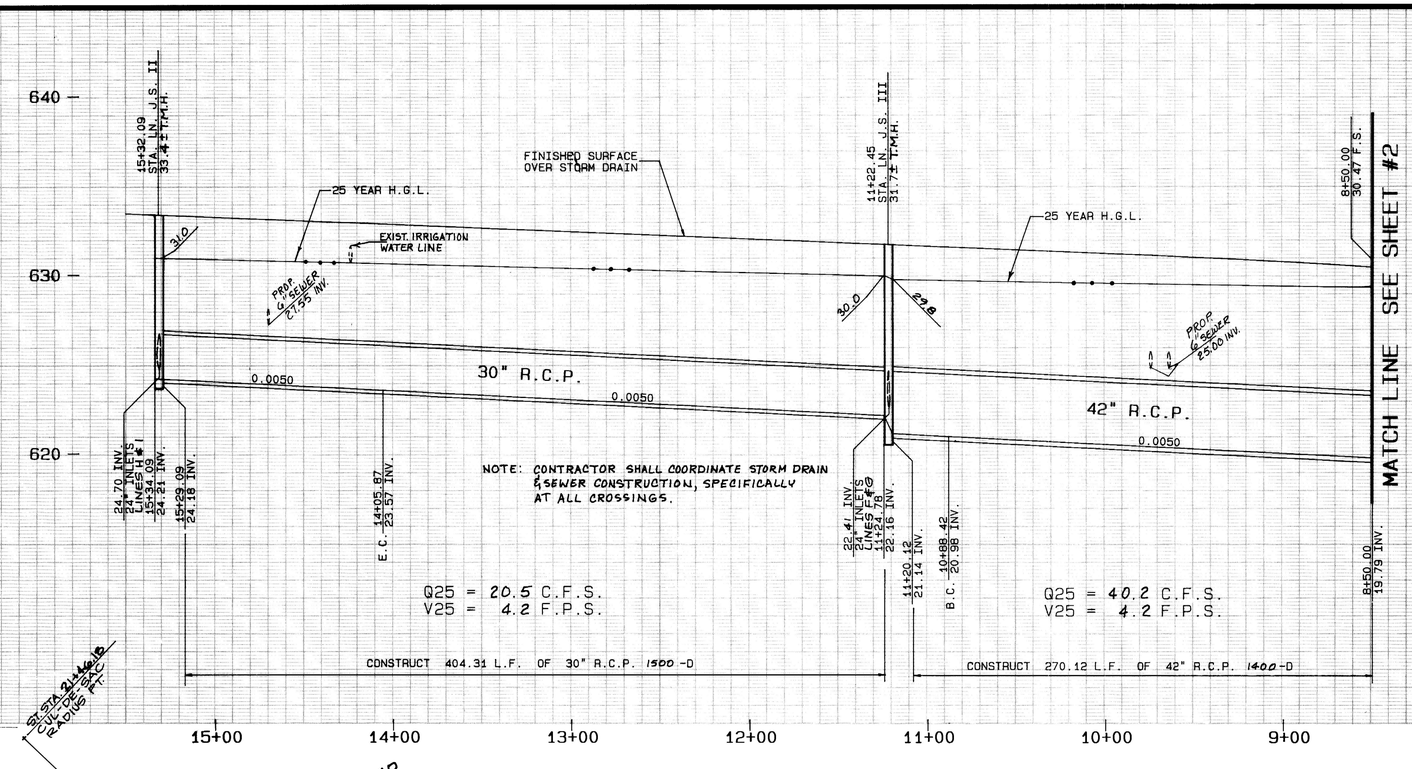
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CHINO COPORATE CENTER
SOUTHWEST OF
CORPORATE CENTER AVENUE
CHINO, CA 91710

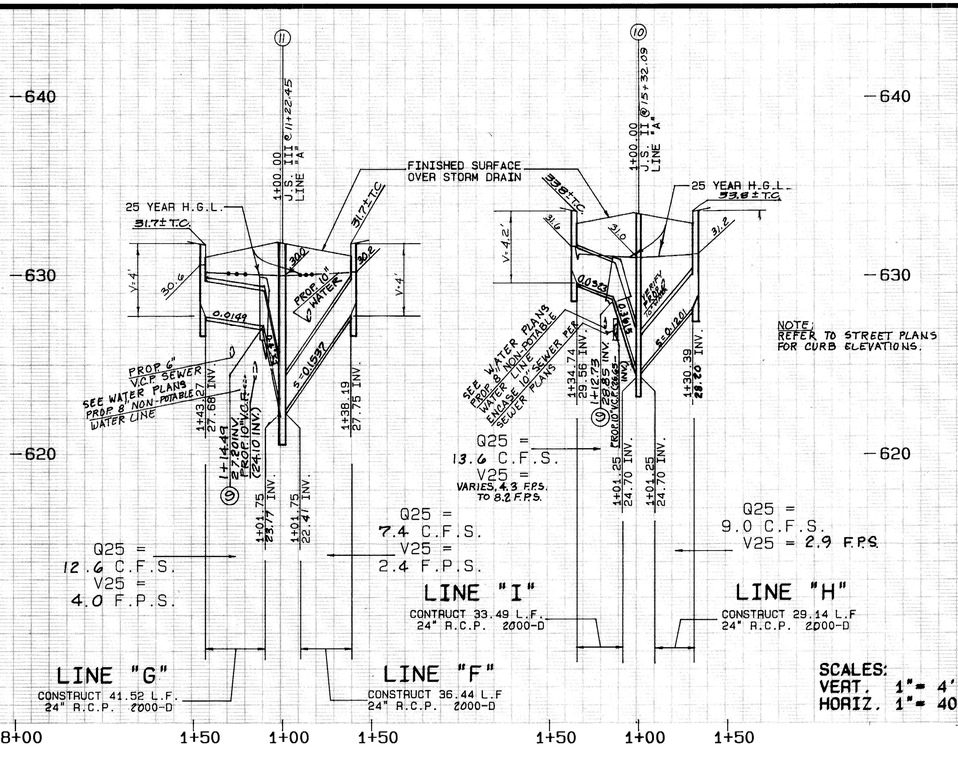
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APPENDIX 7

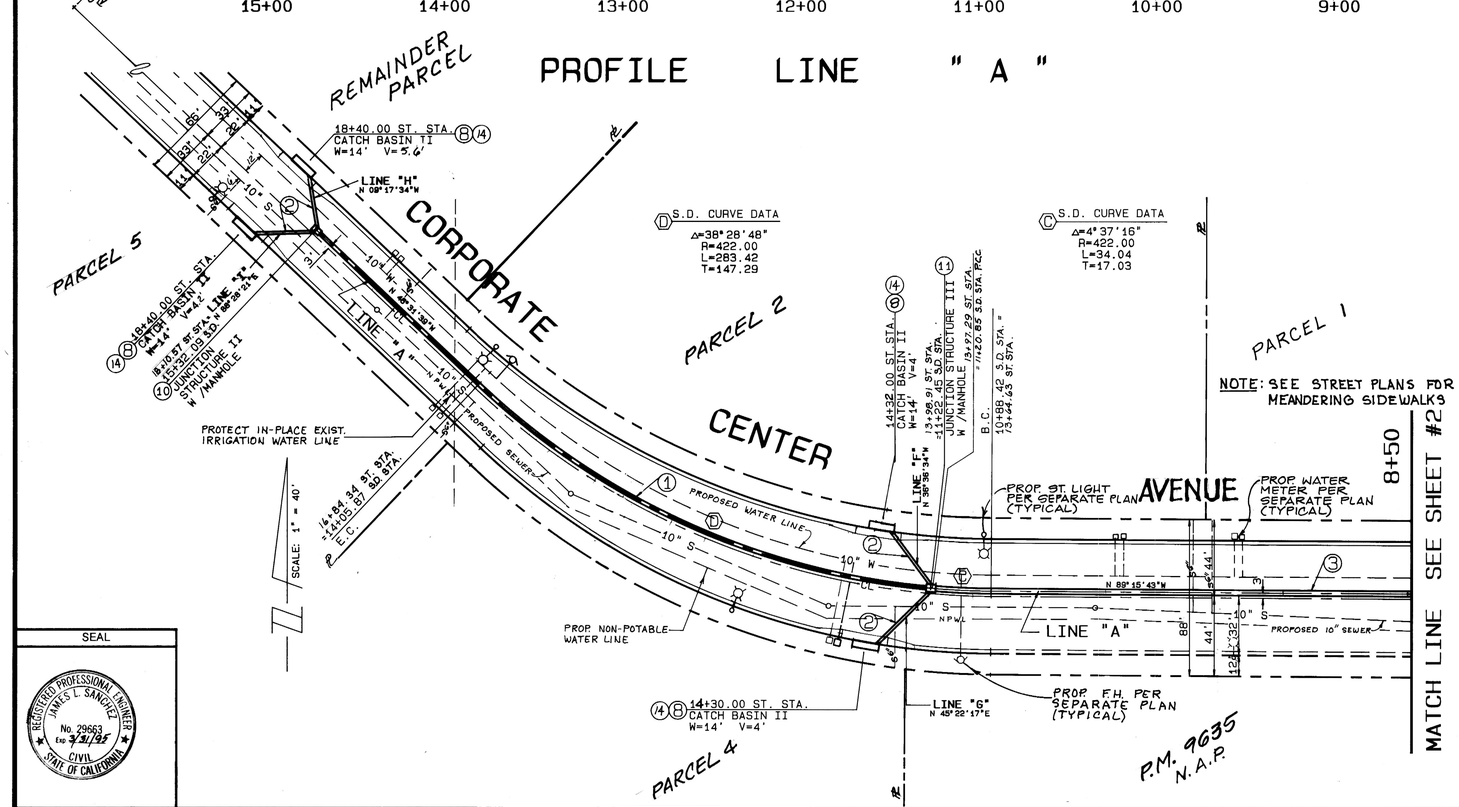
REFERENCE DRAWING (SD PLAN AA-2343SD)



PROFILE LINE " A "



PROFILE LATERALS "F, G, H & I"



STORM DRAIN CONSTRUCTION NOTES

1. CONSTRUCT 30" R.C.P., 1500 D-LOAD.
2. CONSTRUCT 24" R.C.P., 2000 D-LOAD.
3. CONSTRUCT 42" R.C.P., 1400 D-LOAD.
14. CONSTRUCT LOCAL DEPRESSION TYPE "B" PER CITY OF CHINO STD. 330.
7. CONSTRUCT CATCH BASIN NO. II PER CITY OF CHINO STD. 340, W = 10'
8. CONSTRUCT CATCH BASIN NO. II PER CITY OF CHINO STD. 340, W = 14'
9. CONSTRUCT REINFORCED CONCRETE COLLAR PER CITY OF CHINO STD. 360A & B.
10. CONSTRUCT JUNCTION STRUCTURE II PER CITY OF CHINO STD. 370 A & B.
11. CONSTRUCT JUNCTION STRUCTURE III PER CITY OF CHINO STD. 375 A & B.
14. CONSTRUCT LOCAL DEPRESSION TYPE 'B' PER CITY OF CHINO STD. 330.

NOTES: LOCAL DEPRESSIONS SHALL BE CONSTRUCTED PER THE STREET PLANS.

CONTRACTOR SHALL LOCATE ALL EXISTING UNDER GROUND LINES AND VERIFY DEPTHS PRIOR TO ANY CONSTRUCTION WORK.

SEAL

REGISTERED PROFESSIONAL ENGINEER JAMES L. SANCHEZ No. 29663 Exp 3/31/95 CIVIL STATE OF CALIFORNIA

RECORD DRAWINGS

PREPARED BY	REVISIONS	MADE BY	MADE DATE	APPROVED BY	APPROVED DATE
FIRM PFEILER & ASSOCIATES					
ADDRESS 612 N. DIAMOND BAR BLVD. DIAMOND BAR, CA. 91765					
TEL. (909) 860-5850					
SIGNATURE JAMES L SANCHEZ 5/26/94 DATE					

BENCH MARK DATA	REFERENCE DWGS
NO. 149/45 ELEV. 627.6014 LOCATION: A 2½" BRASS DISK STAMPED "149/45" LOCATED ON TOP OF CURB, 5' WEST OF THE E.C.R. OF THE NORTHWEST CURB RETURN, AND BEING 42' NORTH AND 74' WEST OF THE CENTERLINE INTERSECTION OF RAMONA AVE. AND CHINO HILLS PARKWAY (FORMERLY KNOWN AS CARBON CANYON ROAD) ALSO BEING LOCATED 4' SOUTH AND 12' WEST OF A LIGHT STANDARD.	BA 830 AA 1505 AA 1789 BA 950 AA 1566

REVIEWED BY STAFF	BY	DATE
UTILITIES		
TRAFFIC		
FIRE		
PLANNING		

CITY ENGINEER'S STAFF	BY	DATE
DRAWN		
DESIGNED		
CHECKED L.A.	HN	9/8/94
RECOMMENDED	JAW	9/15/94

APPROVED BY
DIRECTOR OF PUBLIC WORKS / CITY ENGINEER
DATE 9/15/94

CITY OF CHINO ENGINEERING DIVISION

STORM DRAIN IMPROVEMENT PLANS
CORPORATE CENTER AVENUE
FROM RAMONA AVENUE TO 840' W/O RAMONA AVENUE
S.C.U.P. 630 PARCEL MAP NO 11804

PROJECT NO. S.C.U.P. 630
SHEET 3 OF 4
DRAWING NO. AA-2345D

12004

APPENDIX 8

SOILS REPORT



CORPORATE CENTER CHINO
CHINO, CALIFORNIA

PRELIMINARY GEOTECHNICAL EXPLORATION

SUBMITTED TO
Mr. Clarke Campion
BCT Dev Acquisition Co, LLC
130 Newport Center Dr.
Newport Beach, CA 92660

PREPARED BY
ENGEO Incorporated

July 24, 2024

PROJECT NO.
25751.000.001

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ENGEO
Expect Excellence

Project No.
25751.000.001

July 24, 2024

Mr. Clarke Campion
BCT Dev Acquisition Co, LLC
130 Newport Center Dr.
Newport Beach, CA 92660

Subject: Corporate Center Chino
Corporate Center Avenue
Chino, California

PRELIMINARY GEOTECHNICAL EXPLORATION

Dear Mr. Campion:

ENGEO prepared this preliminary geotechnical report for BCT Dev Acquisition Co, LLC as outlined in our agreement dated May 21, 2024. This report presents the results of our preliminary geotechnical exploration for the project, as well as our preliminary recommendations to support planning of the proposed residential development.

It is our opinion, from a geotechnical engineering viewpoint, that the site is suitable for the proposed development, provided the preliminary recommendations and guidelines presented in this report are implemented during initial project planning. As plans progress, a design-level geotechnical exploration should be conducted to further evaluate the geotechnical hazards identified in this report and to develop design-level geotechnical recommendations for grading and foundation design.

We are pleased to have been of service on this project and are prepared to consult further with you and your design team as the project progresses. If you have any questions or comments regarding this preliminary report, please call and we will be glad to discuss them with you.

Sincerely,

ENGEO Incorporated

Tania Zakaria

Julia Moriarty, GE

REGISTERED PROFESSIONAL ENGINEER
JULIA A. MORIARTY
No. 2679
GEOTECHNICAL
STATE OF CALIFORNIA

tz/sb/jam/dt

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1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

The purpose of this preliminary geotechnical report is to provide a preliminary assessment of geotechnical conditions and hazards associated with the site and to present preliminary recommendations to support planning of the proposed residential development. Our services included the following tasks.

- Review available literature and geologic maps
- Review select historical aerial photographs
- Perform initial subsurface field exploration and percolation testing
- Analyze geotechnical data collected
- Develop preliminary geotechnical recommendations
- Develop recommendations for design-level study
- Prepare a preliminary geotechnical report

For our use, we received a Conceptual Site Plan dated May 29, 2024, which depicts the planned development of the site to be multi-family residential rowhouse-style buildings, a recreational area with pool, common areas, and associated landscaping, streets, utilities, and parking areas.

This report was prepared for the exclusive use of our client and their consultants for design of this project. In the event that any changes are made in the character, design, or layout of the development, we should be contacted to review the conclusions and recommendations contained in this report to evaluate whether modifications are recommended. This document may not be reproduced in whole or in part by any means whatsoever, nor may it be quoted or excerpted without our express written consent.

1.2 PROJECT LOCATION

The approximately 4.1-acre site is identified by Assessor's Parcel Number (APN) 102-521-129 and is located at 4401 and 4345 Corporate Center Avenue in Chino, California, as shown in the Vicinity Map, Figure 1. The site is bounded by a hotel to the west, Corporate Center Avenue to the north, a parking lot to the east, and State Route 71 to the south.

The site is presently vacant and covered with seasonal grasses. We show the boundary of the project site and approximate locations of our preliminary field exploration in the Site Plan, Figure 2.

1.3 PROPOSED PROJECT DEVELOPMENT

Based on the provided conceptual site plan (TCA Architects, 2024), the planned development is anticipated to consist of construction of multi-family rowhouse-style buildings (three-stories high, total 108 units), paved drive aisles, parking spaces, a recreational area with a pool, and landscaped recreational common areas.

2.0 FINDINGS

2.1 SITE HISTORY

We reviewed select available aerial photographs and topographic maps of the site, dated between 1896 and 2023. We obtained the photographs from Environmental Data Resources, Inc. (EDR) during preparation of our concurrent Phase I Environmental Site Assessment (ENGEO, 2024), and from other publicly available sources.

Beginning in 1902, the site is depicted in topographic maps southwest of Chino Creek. In the 1933 topographic map, Pipeline Avenue is mapped west of the site extending north-south, Eucalyptus Avenue is mapped north of the site extending east-west, Ramona Avenue is mapped east of the site extending north-south, and a road south of the site is labeled Carbon Canyon Road to the west and Merrill Avenue to the east. A dam is mapped south of the site near an unlabeled lake, and the site is mapped outside the City of Chino, with the City boundary ending approximately 1 mile northeast of the site.

The site appears to be used for agriculture in aerial photographs from 1938 to 1975. Residential and agricultural use is shown in aerial photographs beginning in 1938 and in topographic maps beginning in 1942, with the Los Serranos residential development expanding southwest of the site in 1966.

State Route 71 is shown south of the site in topographic maps beginning in 1942.

In a 1963 aerial photograph, an oval-shaped clearing is visible northeast of the site, which appears to be a racetrack. This area is labeled “Gaging Station” in topographic maps between 1967 and 1981. The 1967 topographic map also depicts a fire station northwest of the site, a trailer park and Chino Sewage Disposal east of the site, and a well northeast of the site.

In 1981, Merrill Avenue is also labeled as State Route 142 (Chino Hills Parkway) south of the site in topographic maps.

New commercial developments appear north, west, and east of the site in the 1985 aerial photograph, and commercial developments continue to expand between the 1980s and 2000s. Additional residential development is also visible south of the site beginning in 1989.

The site appears largely unchanged between 1985 and 2022. The City of Chino Hills is newly labeled northeast of the site in the 2012 topographic map.

2.2 SURFACE CONDITIONS

Our review of the topographic maps shows that the site is relatively flat. Google Earth shows the ground surface ranges from Elevation 640 feet (Datum: NAVD88) in the northwest to approximately Elevation 635 feet to the southeast. During our most recent site visit on July 12, 2024, we observed that the site is vacant and blanketed with seasonal vegetation.

2.3 PRELIMINARY FIELD EXPLORATION

Our field exploration included advancing cone penetration test (CPTs) at five locations and drilling three borings that were converted to conduct percolation tests at the locations shown in Site Plan,

Figure 2. We performed our field exploration on July 11 and 12, 2024. The location and elevations of our explorations are approximate and were estimated by field personnel using GPS on cellular phones; they should be considered accurate only to the degree implied by the method used.

2.3.1 Borings

We observed drilling of three borings at the locations shown in the Site Plan, Figure 2. These were later converted into percolation test holes. An ENGEO geologist observed the drilling and logged the subsurface conditions at each location. We retained a truck-mounted CME 75 drill rig and crew to advance the borings using 8-inch-diameter hollow-stem auger methods. The borings were advanced to a depth to 20 feet below existing grade. We permitted and backfilled the borings in accordance with the requirements of San Bernardino County.

We recorded the blow counts of the sampler as they advanced into the bottom of the boring with a 140-pound hammer falling 30 inches. The Modified California sampler was driven 18 inches and the number of blows was recorded for each 6 inches of penetration. Unless otherwise indicated, the blows per foot recorded on the boring log represent the accumulated number of blows to drive the sampler through the last 1 foot of penetration; the blow counts have not been converted using any correction factors. The logs depict subsurface conditions at the exploration locations during the exploration; however, subsurface conditions may vary with time. The boring logs are included in Appendix A.

2.3.2 Cone Penetration Tests

We retained the services of a licensed contractor operating a truck-mounted CPT rig to advance CPTs at five locations, as shown in Figure 2. The CPTs were advanced to depths ranging from approximately 50 to 91 feet below the ground surface (bgs), where each met refusal to further advancement on very dense sand or very stiff silt.

The CPT has a 20-ton compression-type cone with a 15-square-centimeter (cm^2) base area, an apex angle of 60 degrees, and a friction sleeve with a surface area of 225 cm^2. The cone, connected with a series of rods, is pushed into the ground at a constant rate. Cone readings are taken at approximately 5-cm intervals with a penetration rate of 2 cm per second in accordance with ASTM D5778. Measurements include the tip resistance to penetration of the cone (Qc), the resistance of the friction sleeve (F_s), and pore pressure (U) (Robertson and Campanella, 1988). Additionally, one CPT was a seismic CPT in which in situ shear wave velocities were measured in 5-foot increments. CPT logs are presented in Appendix B.

2.3.3 Percolation Testing

Three percolation test holes (1-P1 through 1-P3) were installed and field tests were performed within the vicinity of the three proposed stormwater management facilities. According to information provided to us by Fuscoe Engineering, Inc, we understand that the design of the stormwater management facilities are proposed to be at a depth of approximately 20 feet below the ground surface; therefore, we targeted strata within that zone to run our percolation tests. The locations of our percolation tests are shown in the Site Plan, Figure 2.

We performed the percolation tests in general accordance with the procedures described in the 2011 Riverside County Design Handbook for Low Impact Development Best Management Practices, as recommended by the San Bernadino County Technical Guidance Document (2011) for recommended infiltration investigation methods.

An ENGEO geologist observed the drilling and noted that the soil at the bottom of the test holes 1-P1 and 1-P2 consisted of silty sand, and the soil at the bottom of test hole 1-P3 consisted of poorly graded sand, based on visual observation of the borehole cuttings. After drilling was complete, we placed a 2-inch-thick layer of pea gravel in the bottoms of the holes. We then placed a 2-inch-diameter perforated PVC pipe in the center of the holes and backfilled the annulus between the pipe and the boring sidewalls with gravel. The holes were presoaked overnight prior to performing the percolation tests. Municipal drinking water was used for the percolation testing. For our test purposes, we assume the percolation rate of drinking water is similar to stormwater.

At the start of each test, the hole was filled with water. The water level was then measured at appropriate intervals until the percolation rate stabilized. At the end of each interval, additional water was added, as needed, to reset the water level.

2.3.3.1 Percolation Testing Results

The results of our field percolation testing are presented in Table 2.3.3.1-1, which includes the assumed infiltration media soil type according to the Unified Soil Classification System (USCS), test depths, field-measured percolation rates, and estimated infiltration rates using Porchet's method (Inverse Borehole Method). Field-measured percolation rates have no reduction or safety factors applied. The assumed soil type is based on visual field classification.

TABLE 2.3.3.1-1: Percolation Test Results and Calculated Infiltration Rates

LOCATION	TEST DEPTH (feet)	SOIL PROFILE	FIELD PERCOLATION RATE (in/hr)	CALCULATED INFILTRATION RATE (in/hr)
1-P1	20	Silty Sand (SM)	263	2
1-P2	20	Silty Sand (SM)	162	1
1-P3	20	Poorly Graded Sand (SP)	372	3

The field percolation rates and calculated infiltration rates are unfactored data and the design engineer should consider appropriate conversion factors or factors of safety when designing the stormwater management facilities. The rates reported above are based on the conditions at the location, depth, and time of the test. Actual rates can be affected by changes in subsurface conditions, test methodology, time of year, and the rate and depth at which water is applied.

Appropriate engineering judgment should be applied to the use of these test data for stormwater infiltration, including the feasibility of on-site infiltration by the designer.

2.4 SUBSURFACE CONDITIONS

Based on our interpretation of the CPT data and the percolation test holes, the site soil is predominantly comprised of soft silt in the upper 2 to 4 feet, followed by medium stiff to stiff silt with varying amounts of sand and medium dense sand and silty sand.

2.5 GROUNDWATER CONDITIONS

We observed static groundwater in several of our subsurface explorations. Based on our review of nearby wells on the GeoTracker and Department of Water Resources Online Water Data Library, groundwater was also observed in nearby wells. We summarize groundwater depth observations in the table below,

TABLE 2.5-1: Depth to Groundwater

EXPLORATION LOCATION	APPROX. DEPTH TO GROUNDWATER (feet)
CPT-1	15
CPT-2A	34
CPT-3	38
CPT-4	17
Well 0 to ¼ mile southwest	10.1 to 13.7
Well 0 to ¼ mile southwest	19.7 to 21.9
Well ¼ to ½ mile southwest	13.1 to 17.1
Well ½ to 1 mile northwest	41.2 to 49.2

Fluctuations in the level of groundwater may occur due to variations in rainfall, irrigation practice, and other factors not evident at the time measurements were made.

2.6 REGIONAL AND LOCAL GEOLOGY

The site is located within the northern portion of the Peninsular Ranges geomorphic province, near the western boundary of the Chino Basin. The Chino Basin contains Pleistocene and Holocene sedimentary alluvial units with depositional control from the Santa Ana River. Regional mapping (Morton et al., 2001), as shown in Figure 3, identifies the eastern and central portion of the site to be underlain by Holocene and late Pleistocene Young axial-channel deposits (Qyaa), consisting of moderately consolidated silt, sand, and gravel deposits. The westernmost portion of the site is underlain by middle Holocene Young alluvial channel deposits (Qyf3a), Unit 3, consisting of slightly to moderately consolidated silt, sand, and coarse-grained sand to bouldery alluvial-fan deposits having slightly to moderately dissected surfaces.

2.7 SITE SEISMICITY

The Southern California area contains numerous active earthquake faults. An active fault is defined by the California Geologic Survey as one that has had surface displacement within Holocene time (about the last 11,700 years) (CGS, 2018).

The site is not located within a currently designated Alquist-Priolo Earthquake Fault Zone and no known surface expression of active faults is believed to exist within the site. Fault rupture through the site, therefore, is not anticipated.

Numerous small earthquakes occur every year in the Southern California Region, and larger earthquakes have been recorded and can be expected to occur in the future. Figure 4 shows the approximate locations of these faults and significant historic earthquakes recorded within the Southern California Region. The Uniform California Earthquake Rupture Forecast (UCERF3) (Field et al, 2015) estimates the 30-year probability for a magnitude 6.7 or greater earthquake in Southern California at approximately 93 percent, considering the known active seismic sources in the region.

To evaluate nearby active faults that are capable of generating strong seismic ground shaking at the site, we utilized the USGS Unified Hazard Tool and disaggregated the hazard at the peak ground acceleration (PGA) for a 2,475-year return period, with the resulting faults listed below in Table 2.7-1.

TABLE 2.7-1: Faults Considered Capable of Producing Strong Ground Shaking at the Site*
Site Latitude: 34.1481 Longitude: -117.4561

SOURCE NAME	RUPTURE DISTANCE, R_{RUP}		MOMENT MAGNITUDE, M_W
	(km)	(mi)	
Chino [1] (1)	1.77	1.09	6.32
Chino [1] (2)	3.99	2.48	6.60
Chino [1] (3)	8.48	5.27	6.85
Whittier [1] (3)	10.55	6.56	7.43
Whittier [1] (2)	10.57	6.57	7.21
Sierra Madre (0)	16.63	10.33	7.71
San Jacinto (San Bernardino) (0)	36.26	22.53	8.11
San Andreas (San Bernardino, north) (0)	39.38	24.48	8.01

*Based on USGS Earthquake Hazard Toolbox: NSHM Conterminous U.S. 2018

These results represent known fault sources contributing at least 1 percent to the seismic hazard at the site considering spectral periods ranging from the peak ground acceleration (PGA) to 5 seconds for the given return period. The rupture distances (R_{RUP}) and mean moment magnitudes (M_W) listed are based on values assigned according to the 2018 NSHM, and the numbers in parentheses after the fault names correspond to fault subsections assigned by the NSHM. Note that the above fault table is not an exhaustive list and other faults in the region may generate seismic shaking at the project site.

The Chino Fault, a branch of the Elsinore Fault Zone, is located one mile west of the project site, and extends from the northwest to the southeast along the western boundary of the Chino Basin. It is, in part, responsible for uplift of the Puente Hills and Chino Hills, which form a continuous belt of low hills west of the Chino Fault.

In 2014, the Working Group on California Earthquake Probabilities estimated the 30-year likelihood of one or more M_W 6.7 or greater earthquake events in the Southern California region at approximately 93 percent, considering the known seismic sources in the region.

3.0 GEOLOGIC AND GEOTECHNICAL HAZARDS

3.1 NEAR-SURFACE LOOSE ALLUVIAL DEPOSITS

Based on subsurface soil conditions correlated or encountered in our CPTs and borings, respectively, the site is underlain by loose alluvial deposits in the upper 2 to 4 feet of the subsurface. Loose soil may undergo excessive total and differential settlement unless mitigated. We recommend mitigation of the loose near-surface soil by overexcavating and recompacting as recommended in Section 4.1.2 of this report. The limits and depths of these materials should be further explored during the design-level geotechnical exploration.

3.2 EXPANSIVE SOIL

We observed lenses of potentially expansive silty clay near the surface of the site in the CPTs. Expansive soil changes in volume with changes in moisture. They can shrink or swell and cause heaving and cracking of slabs-on-grade, pavements, and structures founded on shallow foundations. Building damage due to volume changes associated with expansive soil can be reduced by: (1) using a rigid mat foundation that is designed to resist the settlement and heave of expansive soil, (2) deepening the foundations to below the zone of moisture fluctuation, i.e., by

using deep footings or drilled piers, and/or (3) using footings at normal shallow depths but bottomed on a layer of select fill having a low expansion potential.

We recommend evaluating the expansion potential of near-surface soil during the design-level study. Recommendations should be provided to reduce impacts on foundations, pavements, and surface improvements.

3.3 SEISMIC HAZARDS

Potential seismic hazards resulting from a nearby moderate to major earthquake can generally be classified as primary and secondary. The primary effect is ground rupture, also called surface faulting. The common secondary seismic hazards include ground shaking, liquefaction, dynamic densification settlement, and ground lurching. The following sections present a discussion of these hazards as they apply to the site.

Other hazards were also assessed as part of this study. Based on topographic and lithologic data, the risk of regional subsidence or uplift, lateral spreading, landslides, tsunamis, or seiches are considered low to negligible at the site.

3.3.1 Ground Rupture

Since there are no known active faults crossing the property and the site is not located within an Earthquake Fault Special Study Zone, it is our opinion that ground rupture is unlikely at the subject property.

3.3.2 Ground Shaking

An earthquake of moderate to high magnitude generated within the Southern California region could cause considerable ground shaking at the site, similar to that which has occurred in the past. To mitigate the shaking effects, structures should be designed using sound engineering judgment and the latest edition of the California Building Code (CBC) requirements, as a minimum. Seismic design provisions of current building codes generally prescribe minimum lateral forces, applied statically to the structure, combined with the gravity forces of dead and live loads. The code-prescribed lateral forces are generally considered to be substantially smaller than the comparable forces that would be associated with a major earthquake. Therefore, structures should be able to: (1) resist minor earthquakes without damage, (2) resist moderate earthquakes without structural damage but with some non-structural damage, and (3) resist major earthquakes without collapse but with some structural, as well as non-structural damage. Conformance to the current building code recommendations does not constitute any kind of guarantee that significant structural damage would not occur in the event of a maximum magnitude earthquake; however, it is reasonable to expect that a well-designed and well-constructed structure will not collapse or cause loss of life in a major earthquake (SEAOC, 1996). Section 3.7 presents California Building Code (CBC, 2022) seismic design parameters.

3.3.3 Liquefaction

The site has not been evaluated/mapped by the California Geological Survey for liquefaction hazards. Soil liquefaction results from loss of strength during cyclic loading, such as imposed by earthquakes. The soil most susceptible to liquefaction is clean, loose, saturated, uniformly graded fine sand below the groundwater table. Empirical evidence indicates that loose silty sand is also potentially liquefiable. When seismic ground shaking occurs, the saturated sandy soil is subjected

to cyclic shear stresses that can cause excess pore-water pressures to develop due to volumetric repositioning of soil particles. As excess pore-water pressures approach the effective confining stress from the overlying soil, the sand will experience a reduction in effective shear strength and may experience deformation. If the pore-water pressures exceed the effective confining stress, the sand particles are free to move within the soil-water matrix without significant resistance, at which point the soil is said to have liquefied. If the sand consolidates or vents to the surface (known as “sand boils”) during and following liquefaction, ground settlement and surface deformation may occur. In addition to liquefaction of sandy materials, clayey soil can also experience “cyclic softening” or strength loss due to cyclic loading. Since the site is composed of many thick clay layers, we considered this effect in our liquefaction screening process and analyses.

The sand layers encountered in our explorations were generally loose to medium dense. As described in Section 2.5, groundwater was reported at a minimum depth of approximately 15 feet at the site. To evaluate the liquefaction potential of the site soils, we performed liquefaction screening analysis on the five CPTs advanced at the site.

We evaluated the liquefaction potential using CPT-based liquefaction analysis methods. We utilized the commercially available software program CLiq v.3.5.2.22 and incorporated NCEER (1998), Idriss and Boulanger (2008), and Robertson (2009). We analyzed the liquefaction potential of the CPTs using the field high groundwater elevation of 15 feet, an earthquake magnitude of 6.68, and mapped MCEG peak ground acceleration (PGAM) of 0.86g for a Site Class D.

Based on our preliminary assessment, we estimate liquefaction settlements up to ¾ inch. Potential liquefaction settlement shall be further evaluated during the design-level study based on borings and laboratory testing.

3.3.4 Dynamic Densification Settlement

Densification of loose and generally clean granular soil above the groundwater surface can cause settlement of the ground surface due to earthquake-induced vibrations. We performed a preliminary CPT-based analysis of potential dynamic densification settlement layers within the probed depths and above the ground water table using the method proposed by Robertson and Shao (2010).

Based on our preliminary assessment, we estimate dry sand settlements up to ½ inch. Potential dynamic densification settlement shall be further evaluated during the design-level study based on borings and laboratory testing.

3.3.5 Ground Lurching

Ground lurching is a result of the rolling motion imparted to the ground surface during energy released by an earthquake. Such rolling motion can cause ground cracks to form in weaker soil. The potential for the formation of these cracks is considered greater at contacts between deep alluvium and bedrock. Such an occurrence is possible at the site as in other locations in the Southern California region, but based on the site location, it is our opinion that the offset is expected to be minor. We provide recommendations for foundation and pavement design in this report that are intended to reduce the potential for adverse impacts from lurch cracking.

3.4 COMPRESSIBLE SOIL

Soft saturated soil is subject to settlement when a new loading is introduced by structures or fill. Based on our review of boring and CPT logs, soft to medium stiff saturated clay was not encountered below the groundwater. Soft to medium stiff clay deposits may undergo settlement in response to new loads. We performed load-induced settlement analyses for the planned residential structures based on an assumed structural mat foundation type with an anticipated average uniform loading of 500 pounds per square foot (psf), and approximately 2 feet of fill. Based on the above conditions, we estimate less than ¼ inch of total load-induced settlement may occur. Once building project plans and building loads are further defined, we can reassess our settlement analyses. If changes to the planned development result in changes to the above assumptions, we should also review and update our analysis as needed.

3.5 FLOODING

Based on site elevation and distance from water sources, flooding is not expected at the subject site. The site is not mapped within the FEMA 100-Year Flood Zone or the 500-Year Flood Zone. FEMA's flood hazard zones are established based on historical data and may not fully predict the future areas that are most at risk of flooding or the frequency of future flood events.

The civil engineer should review pertinent information relating to possible flood levels for the subject site based on final pad elevations and provide appropriate design measures for development of the project, if recommended.

3.6 SOIL CORROSION POTENTIAL

Our scope did not include sampling and testing for corrosion potential as part of this preliminary study. Representative samples of the foundation grade soil should be obtained during the design-level study to determine the potential for corrosion on buried metal and the potential for sulfate attack on foundation concrete and buried pipelines. If necessary, a corrosion consultant can determine if special design considerations are necessary in accordance with the most recent edition of the California Building Code (CBC).

3.7 2022 CBC SEISMIC DESIGN PARAMETERS

The 2022 CBC utilizes seismic design criteria established in the ASCE/SEI "Standard Minimum Design Loads and Associated Criteria for Buildings and Other Structures," (ASCE 7-16). Based on the seismic CPT shear wave measurements, we characterized the site as Site Class D.

ASCE 7-16 requires a site-specific ground-motion hazard analysis for Site Class D sites with a mapped S_1 value greater than or equal to 0.2; however, Section 11.4.8 of ASCE 7-16 and Supplement No. 3 provide an exception to this requirement. A site-specific ground-motion hazard analysis is not required where the value of the parameter S_{M1} determined by Equation 11.4-2 and shown in Table 3.7-1 is increased by 50 percent for developing the mapped risk-targeted maximum considered earthquake (MCER) spectral response. Similarly, the S_{D1} value presented in Table 3.7-1 should be increased by 50 percent when evaluating C_s in accordance with Chapter 12 of ASCE 7-16.

We provide the CBC seismic parameters based on the United States Geological Survey's (USGS) Seismic Design Maps in Table 3.7-1. When using this table, consideration should be given to exceptions in Section 11.4.8 of ASCE 7-16, as described above.

TABLE 3.7-1: 2022 CBC Seismic Design Parameters, Latitude: 34.1481 Longitude: -117.4561

PARAMETER	VALUE
Site Class	D
Mapped MCE_R Spectral Response Acceleration at Short Periods, S_S (g)	1.824
Mapped MCE_R Spectral Response Acceleration at 1-second Period, S_1 (g)	0.646
Site Coefficient, F_a	1
Site Coefficient, F_v	*1.7**
MCE_R Spectral Response Acceleration at Short Periods, S_{MS} (g)	1.824
MCE_R Spectral Response Acceleration at 1-second Period, S_{M1} (g)	*1.098**
Design Spectral Response Acceleration at Short Periods, S_{DS} (g)	1.216
Design Spectral Response Acceleration at 1-second Period, S_{D1} (g)	*0.732**
Mapped MCE Geometric Mean (MCE_G) Peak Ground Acceleration, PGA (g)	0.778
Site Coefficient, F_{PGA}	1.1
MCE_G Peak Ground Acceleration adjusted for Site Class effects, PGA_M (g)	0.856
Long period transition-period, T_L (sec)	8

*The parameters above should only be used for calculation of T_s, determination of Seismic Design Category, and, when taking the exceptions under Items 1 and 2 of ASCE 7-16 Section 11.4.8. (Supplement Number 3 https://ascelibrary.org/doi/epdf/10.1061/9780784414248.sup3).

We recommend that we collaborate with the structural engineer-of-record to further evaluate the effects of taking the exception on the structural design and identify the need for performing a site-specific ground-motion hazard analysis. We can prepare a proposal for a site-specific ground-motion hazard analysis, if requested.

4.0 PRELIMINARY GEOTECHNICAL RECOMMENDATIONS

The preliminary geotechnical recommendations included in this report should be utilized for project planning purposes and are intended for the areas of the site that will be developed with structural improvements. These areas include, but are not limited to, residential building pads, sidewalks, pavement areas, retaining walls, and/or soundwalls. Prior to development, we should be retained to prepare a design-level geotechnical report.

4.1 PRELIMINARY EARTHWORK CONSIDERATIONS

The relative compaction and optimum moisture content of soil and aggregate base referred to in this report are based on the most recent ASTM D1557 test method. Compacted soil is not acceptable if it is unstable. It should exhibit only minimal flexing or pumping, as observed by our representative.

As used in this report, the term “moisture condition” refers to adjusting the moisture content of the soil by either drying if too wet or adding water if too dry.

We define “structural areas” as any area sensitive to settlement of compacted soil. These areas include, but are not limited to building pads, pools, hardscape and sidewalks, landscape areas, pavement areas, and retaining walls.

4.1.1 General Site Clearing

Areas to be developed should be cleared of surface and subsurface deleterious materials, including buried utility and irrigation lines, pavements, debris, and designated trees, shrubs, and associated roots. Clean and backfill excavations extending below the planned finished site grades with suitable material compacted to the recommendations presented in Section 4.1.4. ENGEO should be retained to observe and test backfilling.

Following clearing, the site should be stripped to remove surface organic materials. Strip organics from the ground surface to a depth of at least 2 to 3 inches below the surface. Remove strippings from the site or, if considered suitable by the landscape architect and owner, use them in landscape fill. It may also be feasible to mulch organics in place, depending on the amount and type of vegetation present at the time of grading, as well as the proposed mulching method. If desired, ENGEO can evaluate site vegetation at the time of grading to assess the feasibility of mulching organics in place.

4.1.2 Near-Surface Loose Deposits Mitigation

We encountered loose sandy deposits and soft silt in the upper 2 to 4 feet of the subsurface, which is considered unsuitable for support of the proposed improvements. On a preliminary basis, we anticipate that overexcavation and recompaction up to 4 feet would be necessary to prepare the site for new improvements. Design-level field exploration should include further evaluation of lateral extent and depth of disturbed soil.

Excavated soil from loose alluvial removals may be reused as engineered fill, provided it meets the guidelines in Sections 4.1.3 and 4.1.4.

4.1.3 Acceptable Fill

On-site soil is suitable as fill material, provided it is processed to remove concentrations of organic material exceeding 3 percent by weight, debris, and particles greater than 6 inches in maximum dimension.

Imported fill material should meet the above requirements and generally have similar geotechnical characteristics to the soil encountered at the site and have similar corrosion potential as the on-site soil. Additional import fill criteria will be provided in the design-level geotechnical report based on laboratory testing of site material.

4.1.4 Fill Placement Specifications

For preliminary purposes, we suggest engineered fill should be placed according to the following fill placement specifications, depending upon location and material.

TABLE 4.1.4-1: Fill Placement Specifications

FILL AREA	TEST PROCEDURE	MOISTURE CONTENT	MINIMUM RELATIVE COMPACTION
General Fill and Soil Trench Backfill	ASTM D1557	At least 3 percentage point over optimum	At least 90 percent
Pavement Subgrade (Upper 6 inches)	ASTM D1557	At least 2 percentage points over optimum	At least 95 percent
Hardscape and Pavement Aggregate Base	ASTM D1557	At least optimum	At least 95 percent
Hot Mix Asphalt	CalTrans	-	At least 95 percent

* Relative compaction - in-place dry density of material expressed as a percentage of the maximum dry density (ASTM D1557).

4.1.5 Differential Fill Thickness

We recommend that the differential fill thickness under any building be maintained to no greater than 10 feet. This should be evaluated further in a design-level study and once the grading plans are available.

4.2 SITE DRAINAGE

The project civil engineer is responsible for designing surface drainage improvements. With regard to geotechnical engineering issues, finish grades should be sloped away from buildings and pavements to the maximum extent practical.

We anticipate development will include landscape areas. Proper subsurface drainage is required to prevent ponding on covered roofs or along walls. The roofs and drainage systems should be designed with an appropriate slope to expediently transfer moisture across and off the roofs.

5.0 PRELIMINARY FOUNDATION RECOMMENDATIONS

For land planning purposes, we recommend the use of a structural mat, such as a post-tensioned (PT) mat foundation, to support the proposed residential structures. Alternatively, structures could be supported on a conventionally reinforced structural mat or footings with concrete slab-on-grade. We provide preliminary recommendations for the PT mat foundations below. Final design parameters will be determined during the design-level study.

5.1 MAT FOUNDATIONS

We recommend that the proposed structures be supported on PT mat foundations bearing on a minimum of 18 inches of engineered fill.

For planning purposes, the structural engineer should consider at least a moderately expansive foundation soil condition for a uniform mat or PT thin mat, along with an estimated differential settlement of up to ¾-inch over a 50 foot distance. The final design, to determine the PT mat section, will be based on actual samples collected and tested in the future design-level report.

PT mats are typically underlain by a moisture reduction system as recommended in Section 5.3. In addition, the building pad subgrade is typically moisture conditioned such that the subgrade soil is at a moisture content at least 3 percentage points above optimum immediately prior to foundation construction. The subgrade should not be allowed to dry prior to concrete placement.

5.2 SHALLOW FOOTINGS WITH SLAB-ON-GRADE

The proposed buildings may be supported on continuous perimeter and isolated footings bearing in competent native soil or engineered fill, in conjunction with slab-on-grade floor. The preliminary foundation design should consider an estimated differential settlement of up to ¾-inch over a 50-foot distance and the following parameters in Table 5.2-1.

TABLE 5.2-1: Minimum Footing Dimensions

FOOTING TYPE	*MINIMUM DEPTH (INCHES)	MINIMUM WIDTH (INCHES)
Continuous	24	12
Isolated (connected by tie-beams)	24	12

*Minimum footing depths shown above are taken from lowest adjacent pad soil grade.

Foundation elements meeting the dimensions above may be designed using a maximum allowable dead-plus-live bearing pressure of 2,000 pounds per square foot (psf) for dead-plus-live loads with maximum localized bearing pressures of 2,500 psf at wall loads. This bearing capacity can be increased by one-third for the short-term effects of wind or seismic loading.

The maximum allowable bearing pressure is a net value; the weight of the footing may be neglected for design purposes. All footings located adjacent to utility trenches should have their bearing surfaces below an imaginary 1:1 (horizontal:vertical) plane projected upward from the bottom edge of the trench to the footing. Footing excavations should be kept moist prior to placement of concrete.

5.2.1 Concrete Floor Slab

For preliminary considerations, concrete floor slabs-on-grade should include a minimum of 5 to 6 inches thick, reinforced with No. 4 steel bars spaced at 18 inches on center each way, over a 6-inch-thick layer of compacted aggregate base, and placed on prepared 18 inches of low-expansive subgrade soil.

5.3 SLAB MOISTURE VAPOR REDUCTION

When buildings are constructed with slabs or mats, water vapor from beneath the slab or mat will migrate through the foundation and into the building. This water vapor can be reduced but not eliminated. Vapor transmission can negatively affect floor coverings and lead to increased moisture within a building. Where water vapor migrating through the slab or mat would be undesirable, we recommend the following measures to reduce water vapor transmission upward through the slab or mat.

1. A vapor retarder membrane should be placed directly beneath the slab or mat. The vapor retarder should be sealed at all seams and pipe penetrations. Vapor retarders should conform to Class A vapor retarder in accordance with ASTM E1745 “Standard Specification for Plastic Water Vapor Retarders used in Contact with Soil or Granular Fill under Concrete Slabs.”
2. Concrete should have a concrete water-cement ratio of no more than 0.5.
3. Inspection and testing should be performed during concrete placement to check that the proper concrete and water-cement ratio are used.
4. Moist curing procedures should be implemented.

5. The foundation subgrade soil should be protected from underseepage by providing impermeable plugs within utility trenches where they cross under the mat.

The structural engineer may consider use of a layer of granular clean sand or pea gravel (less than 5 percent passing the U.S. Standard No. 200 Sieve) placed below the vapor retarder membrane to assist in concrete curing. If a layer of granular material is placed above the vapor retarder membrane, the mat should incorporate a thickened edge. The thickened edge, if used, should at least extend to the bottom of the granular material so that it reduces the chance of water seeping between the mat and the vapor retarding membrane; the thickened edge should be at least 12 inches wide.

5.4 FOUNDATION LATERAL RESISTANCE

Lateral loads may be resisted by friction along the base and by passive pressure along the sides of foundations. The passive pressure is based on an equivalent fluid pressure in pounds per cubic foot (pcf). For preliminary purposes, the following allowable values are used for design for moderate expansive soil conditions.

- Passive Lateral Pressure: 300 pcf
- Coefficient of Friction: 0.35

The above allowable values include a factor of safety of 1.5. Increase the above values by one-third for the short-term effects of wind or seismic loading.

Passive lateral pressure should not be used for footings on or above slopes.

6.0 EXTERIOR FLATWORK

Exterior flatwork includes items such as concrete sidewalks, steps, and outdoor courtyards exposed to foot traffic only. Standard city sidewalks can be considered for the site. For patio and courtyard areas, we recommend a minimum section of 4 inches of concrete over 4 inches of aggregate base could also be considered. The subgrade under flatwork should be processed as engineered fill prior to receiving compacted aggregate base or concrete.

If constructed over expansive soil or to improve slab performance, consideration could be given to thicken flatwork edges to at least 8 inches to help control moisture variations in the subgrade and/or place wire mesh or rebar within the middle third of the slab to help control the width and offset of cracks. Construct control and construction joints in accordance with current Portland Cement Association Guidelines.

7.0 PRELIMINARY POOL CONSIDERATIONS

We understand that preliminary development plans include the construction of a community pool with surrounding hardscape.

7.1 POOL SHELL DESIGN

The pool shell should be well reinforced and designed by a structural engineer. The final pool plans and calculations should be submitted to ENGEO for review when they become available.

Preliminarily, we recommend pool shell walls be designed for an at-rest lateral pressure of 60 pounds per cubic foot and should be reinforced. The pool foundation should be designed to impose an average bearing pressure of, at most, 2,000 pounds per square foot (psf). These parameters are subject to change after the design-level exploration is performed.

The pool excavations should be observed and approved by our field representative. If the pool excavation extends into underlying native soil containing non-uniform or differential conditions, the upper 18 inches of pool excavation subgrade should be subexcavated and backfilled as engineered fill. The subgrade soil at the base of the pool excavations should be kept moist at all times prior to concrete placement. In addition, the subgrade soil located around the pool shell should be kept moist until construction of the pool deck. The pool structure should be provided with a hydrostatic pressure relief valve.

7.2 POOL DECK

For preliminary purposes and assuming a moderate expansive subgrade soil, we recommend the pool deck consist of 6 inches of concrete over 6 inches of compacted aggregate base. The subgrade material under the pool deck should be reworked to a depth of at least 12 inches and compacted in accordance with recommendations provided in the design-level geotechnical report. To improve slab performance, we suggest the pool deck slab is reinforced with rebar or welded wire mesh.

A collection subdrainage system should be considered beneath the pool deck to capture nuisance water and convey it into the area drain system. From a geotechnical standpoint, we recommend the pool deck subgrade be graded to slope away from the pool at a minimum slope of 2 percent to the collection subdrain system.

The finished concrete deck should have a minimum slope of at least 1 to 2 percent away from the pool edge in all directions. Frequent control joints should be incorporated into the pool deck according to ACI guidelines. Pool coping joints should be filled with elastomeric sealant and should be examined regularly to ensure that no openings have developed. Subgrade soil material should not be allowed to become dry prior to completion of landscaping. Minor cracking of concrete deck slabs is common and should be expected in the future.

8.0 PRELIMINARY PAVEMENT DESIGN

8.1 PAVEMENTS

8.1.1 Flexible Pavements

We developed the following pavement sections for streets using traffic indices of 4 to 7, based on an assumed R-value of 5 and Topic 633 of the 6th Edition of the Caltrans Highway Design Manual (including the asphalt factor of safety).

TABLE 8.1.1-1: Preliminary Flexible Pavement Design

TRAFFIC INDEX	ASPHALT CONCRETE (inches)	CLASS 2 AGGREGATE BASE (inches)
4	3	6½
5	3	10
6	3½	13
7	4	15½

Note: AB is Aggregate Base Class 2 Material with minimum R = 78

8.1.2 Rigid Pavements

We developed the following rigid pavement sections for streets or trash enclosure aprons using traffic indices of 6 and 7, based on an assumed R-value of 5 and Topic 607.2 of the Caltrans Highway Design Manual (including the asphalt factor of safety).

TABLE 8.1.2-1: Preliminary Rigid Pavement Design

TRAFFIC INDEX	JOINTED PLAIN CONCRETE PAVEMENT (inches)	CLASS 2 AGGREGATE BASE (inches)
6	6	9
7	6	10

Note: AB is Aggregate Base Class 2 Material with minimum R = 78

8.2 SUBGRADE AND AGGREGATE BASE COMPACTION

Compact finish subgrade and aggregate base in accordance with Section 4.1.4. Aggregate base should meet the requirements for ¾-inch maximum Class 2 Aggregate Base in accordance with Section 26-1.02B of the latest Caltrans Standard Specifications.

8.3 CUTOFF CURBS

Saturated pavement subgrade or aggregate base can cause premature failure or increased maintenance of asphalt concrete pavements. This condition often occurs where landscape areas directly abut and drain toward pavements. If desired to install pavement cutoff barriers, they should be considered where pavement areas lie downslope of any landscape areas that are to be sprinklered or irrigated and should extend to a depth of at least 4 inches below the baserock layer. Cutoff barriers may consist of deepened concrete curbs or deep-root moisture barriers.

If reduced pavement life and greater than normal pavement maintenance are acceptable to the owner, then the cutoff barrier may be eliminated.

9.0 DESIGN-LEVEL GEOTECHNICAL REPORT

This preliminary report presents preliminary geotechnical findings, conclusions, and recommendations intended for preliminary planning purposes only. A design-level geotechnical exploration and assessment should be performed when final development plans are available. We recommend the design-level exploration and reporting include the following scope items.

- Additional field exploration consisting of geotechnical borings
- Laboratory testing

- Design-level assessment of geologic and geotechnical hazards
- Design-level recommendations for building and retaining wall foundation design
- Design-level grading, utility, and paving recommendations

10.0 LIMITATIONS

This preliminary report presents geotechnical recommendations for design of the improvements discussed in Section 1.3 for the Corporate Center Chino project. If changes occur in the nature or design of the project, we should be allowed to review this report and provide additional recommendations, if any. It is the responsibility of the owner to transmit the information and recommendations of this report to the appropriate organizations or people involved in design of the project, including but not limited to developers, owners, buyers, architects, engineers, and designers. The conclusions and recommendations contained in this preliminary report are solely professional opinions and are valid for a period of no more than 2 years from the date of report issuance.

We strive to perform our professional services in accordance with generally accepted principles and practices currently employed in the area; there is no warranty, express or implied. There are risks of earth movement and property damages inherent in building on or with earth materials. We are unable to eliminate all risks; therefore, we are unable to guarantee or warrant the results of our services.

This preliminary report is based upon field and other conditions discovered at the time of report preparation. We developed this report with limited subsurface exploration data. We assumed that our subsurface exploration data are representative of the actual subsurface conditions across the site. Considering possible underground variability of soil and groundwater, additional costs may be required to complete the project. We recommend that the owner establish a contingency fund to cover such costs. If unexpected conditions are encountered, ENGEO must be notified immediately to review these conditions and provide additional and/or modified recommendations, as necessary.

Our services did not include excavation sloping or shoring, soil volume change factors, flood potential, or a geohazard exploration. In addition, our geotechnical exploration did not include work to determine the existence of possible hazardous materials. If any hazardous materials are encountered during construction, the proper regulatory officials must be notified immediately.

This document must not be subject to unauthorized reuse, that is, reusing without written authorization of ENGEO. Such authorization is essential because it requires ENGEO to evaluate the document’s applicability given new circumstances, not the least of which is passage of time.

Actual field or other conditions will necessitate clarifications, adjustments, modifications, or other changes to ENGEO’s documents. Therefore, ENGEO must be engaged to prepare the necessary clarifications, adjustments, modifications, or other changes before construction activities commence or further activity proceeds. If ENGEO’s scope of services does not include on-site construction observation, or if other persons or entities are retained to provide such services, ENGEO cannot be held responsible for any or all claims arising from or resulting from the performance of such services by other persons or entities, and from any or all claims arising from or resulting from clarifications, adjustments, modifications, discrepancies, or other changes necessary to reflect changed field or other conditions.

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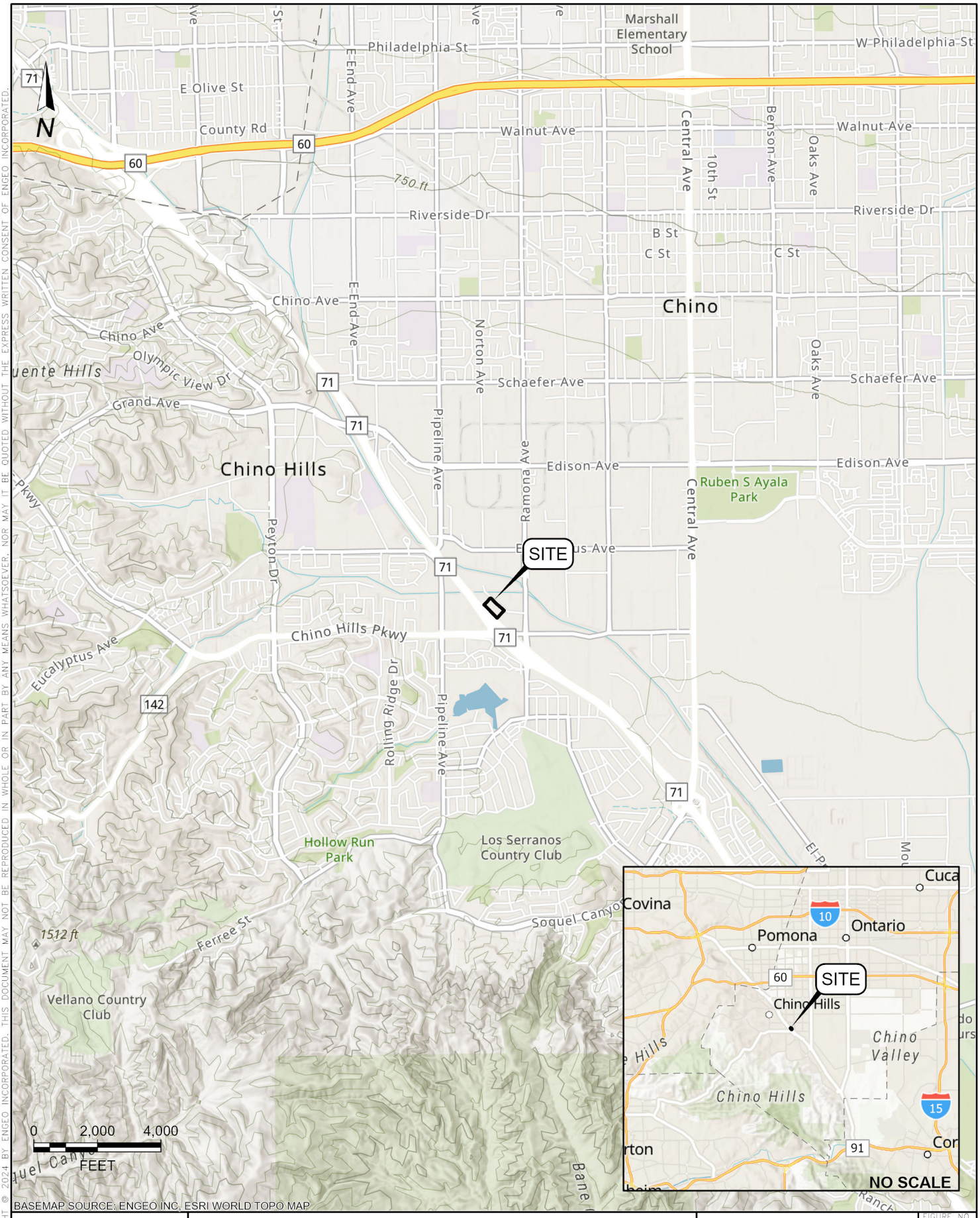
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FIGURES

FIGURE 1: Vicinity Map
FIGURE 2: Site Plan
FIGURE 3: Regional Geologic Map
FIGURE 4: Regional Faulting and Seismicity Map



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VICINITY MAP

CORPORATE CENTER CHINO

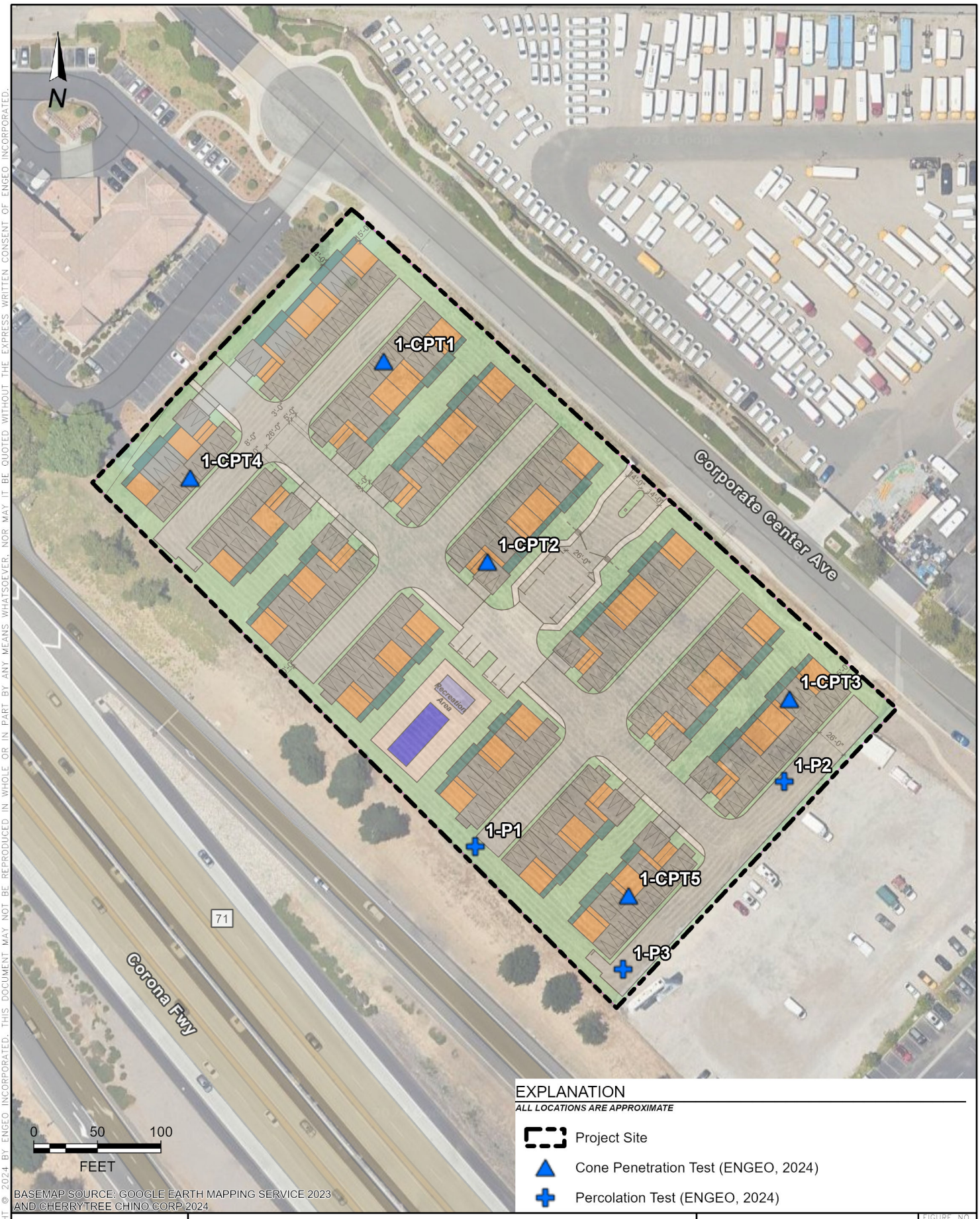
CHINO, CALIFORNIA

PROJECT NO. :	25751.000.001
SCALE:	AS SHOWN
DRAWN BY: NWC	CHECKED BY: SB

FIGURE NO. 1

ORIGINAL FIGURE PRINTED IN COLOR

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LAYOUT: 01. VICINITY 8.5 X 11 PORTRAIT USER: NCLOUGH



BASEMAP SOURCE: GOOGLE EARTH MAPPING SERVICE 2023 AND CHERRYTREE CHINO CORP 2024

EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- Project Site
- Cone Penetration Test (ENGEO, 2024)
- Percolation Test (ENGEO, 2024)

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SITE PLAN

CORPORATE CENTER CHINO

CHINO, CALIFORNIA

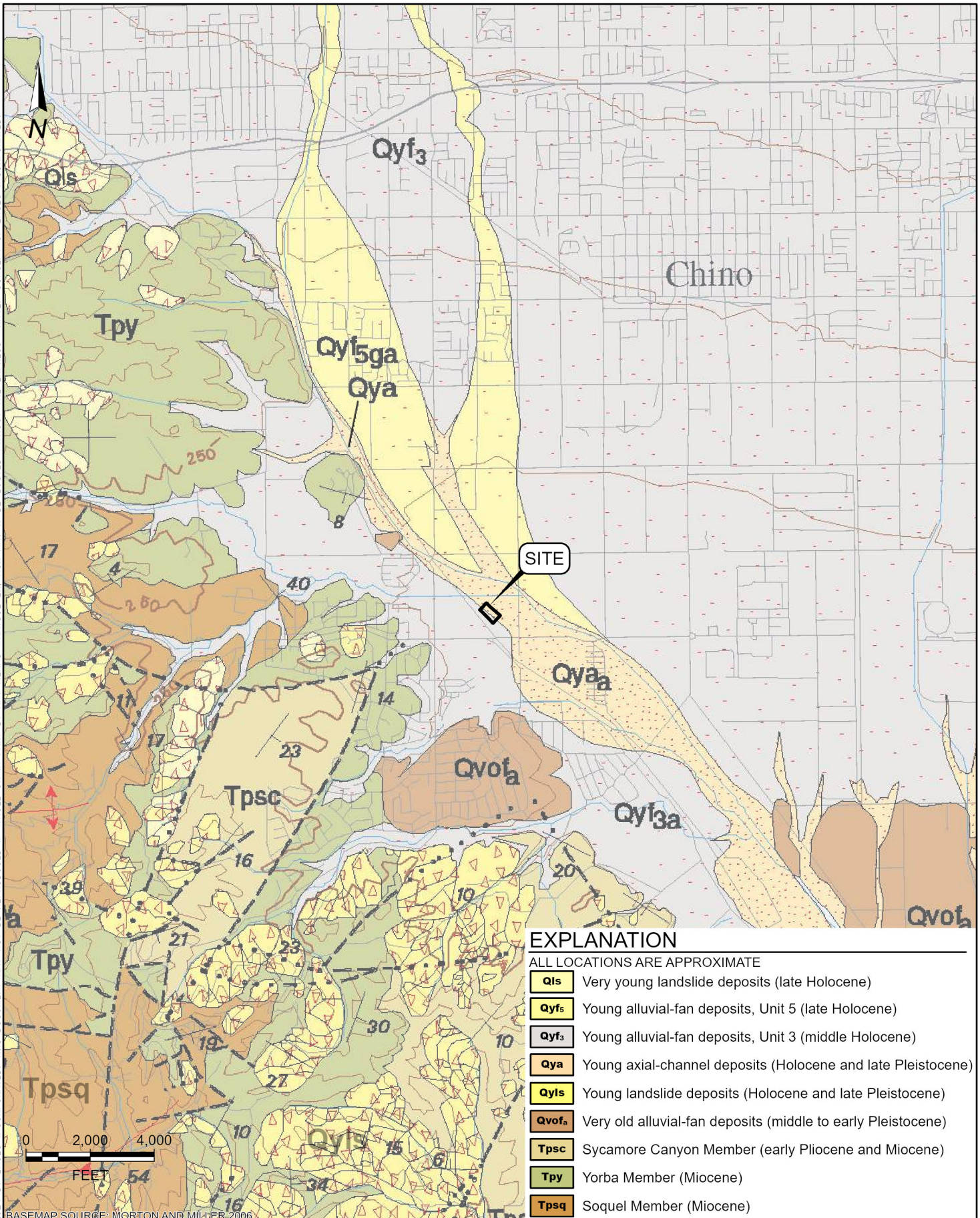
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FIGURE NO. 2

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LAYOUT: 02. SITE PLAN 8.5 X 11 PORTRAIT USER: NCLOUGH

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EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

Qls	Very young landslide deposits (late Holocene)
Qyf5	Young alluvial-fan deposits, Unit 5 (late Holocene)
Qyf3	Young alluvial-fan deposits, Unit 3 (middle Holocene)
Qya	Young axial-channel deposits (Holocene and late Pleistocene)
Qyls	Young landslide deposits (Holocene and late Pleistocene)
Qvofa	Very old alluvial-fan deposits (middle to early Pleistocene)
Tpsc	Sycamore Canyon Member (early Pliocene and Miocene)
Tpy	Yorba Member (Miocene)
Tpsq	Soquel Member (Miocene)

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REGIONAL GEOLOGIC MAP

CORPORATE CENTER CHINO

CHINO, CALIFORNIA

PROJECT NO. : 25751.000.001

SCALE: AS SHOWN

DRAWN BY: NWC | CHECKED BY: SB

FIGURE NO. 3

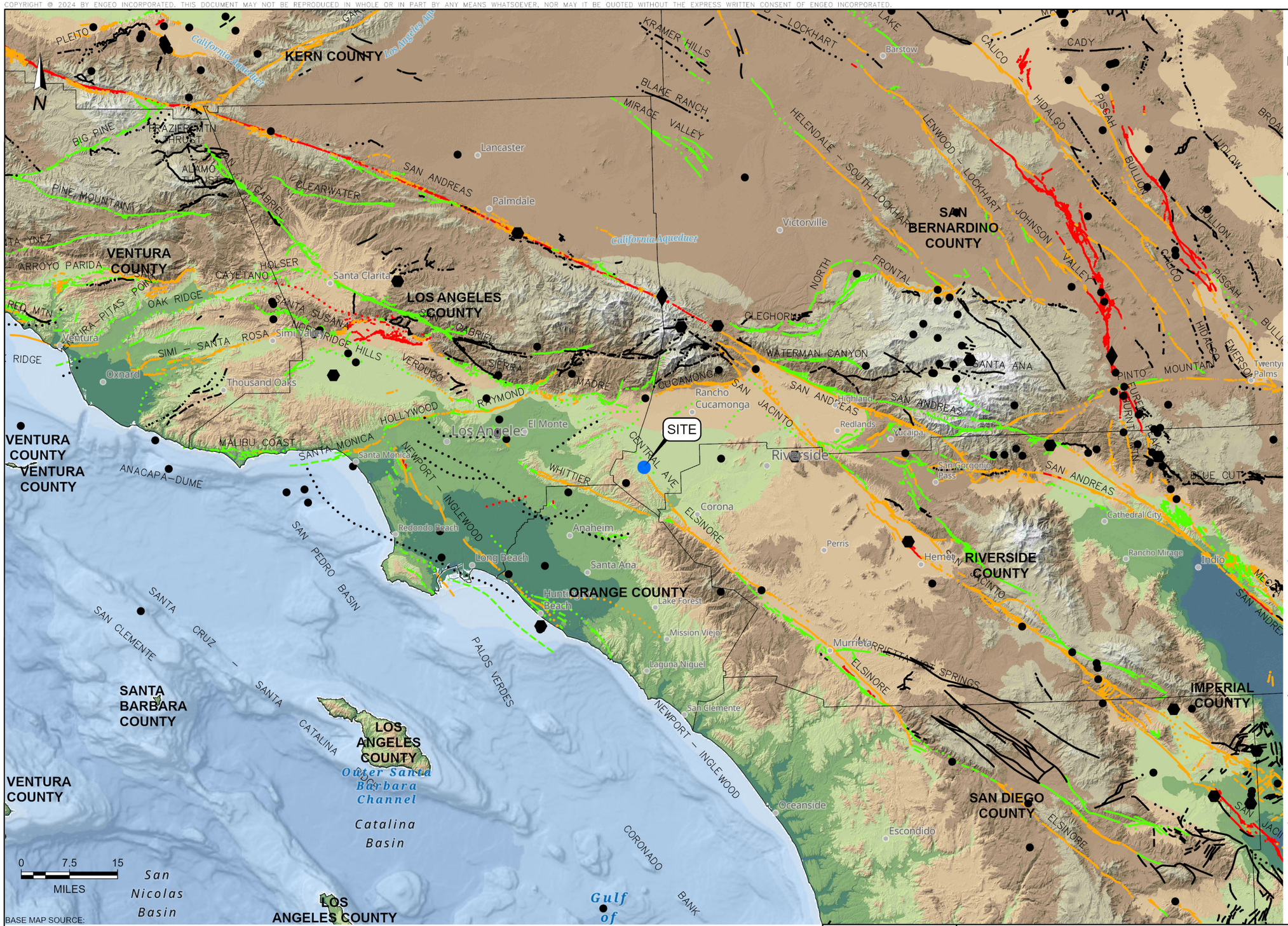
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LAYOUT: 03. GEOLOGIC 8.5 X 11 PORTRAIT USER: NCLOUGH

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EXPLANATION

- Project Site

HISTORIC EARTHQUAKE EPICENTERS

- Magnitude 5-6
- Magnitude 6-7
- Magnitude 7+
- Historic Blind Thrust Fault Zone

QUATERNARY FAULTS 2020

Based on time of most recent surface deformation

- Historical (<150 Years), Well Constrained Location
- Historical (<150 Years), Moderately Constrained Location
- Historical (<150 Years), Inferred Location
- Latest Quaternary (<15,000 Years), Well Constrained Location
- Latest Quaternary (<15,000 Years), Moderately Constrained Location
- Latest Quaternary (<15,000 Years), Inferred Location
- Late Quaternary (<130,000 Years), Moderately Constrained Location
- Late Quaternary (<130,000 Years), Inferred Location
- Middle And Late Quaternary (<750,000 Years), Well Constrained Location
- Middle And Late Quaternary (<750,000 Years), Moderately Constrained Location
- Middle And Late Quaternary (<750,000 Years), Inferred Location
- Undifferentiated Quaternary(<1.6 Million Years), Well Constrained Location
- Undifferentiated Quaternary(<1.6 Million Years), Moderately Constrained Location
- Undifferentiated Quaternary(<1.6 Million Years), Inferred Location
- Class B (Various Age), Well Constrained Location
- Class B (Various Age), Moderately Constrained Location
- Class B (Various Age), Inferred Location

BASE MAP SOURCE:
CSUMB, ESRI, GARMIN, NATURALVUE, ESRI, GEBCO, GARMIN, NATURALVUE, COUNTY OF LOS ANGELES, CALIFORNIA STATE PARKS, ESRI, TOMTOM, GARMIN, SAFEGRAPH, GEOTECHNOLOGIES, INC, METI/NASA, USGS, BUREAU OF LAND MANAGEMENT, EPA, NPS, USDA, USFWS, COUNTY OF LOS ANGELES, CALIFORNIA STATE PARKS, ESRI, TOMTOM, GARMIN, SAFEGRAPH, FAO, METI/NASA, USGS, BUREAU OF LAND MANAGEMENT, EPA, NPS, USFWS
COLOR HILLSHADE IMAGE BASED ON THE NATIONAL ELEVATION DATA SET (NED) AT 30 METER RESOLUTION
U.S.G.S. QUATERNARY FAULT DATABASE, 2020
C.G.S. HISTORIC EARTHQUAKE DATABASE

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REGIONAL FAULTING AND SEISMICITY MAP

CORPORATE CENTER CHINO
CHINO, CALIFORNIA

PROJECT NO. :	25751.000.001
SCALE:	AS SHOWN
DRAWN BY:	NWC
CHECKED BY:	SB

FIGURE NO. 4

PATH: G:\DRAFTING\MANAGEMENT\GIS\GEX\GEX UPDATE\GIS FIGURE TEMPLATE.APRX
LAYOUT: 04. FAULT&SEISMICITY 11 X 17 LANDSCAPE USER: NCLOUGH

ORIGINAL FIGURE PRINTED IN COLOR



APPENDIX A

BORING LOG KEY
BORING LOGS

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Corporate Center Chino

Soil Boring: 1-P1

Project Address:	Corporate Center Avenue	Date Drilled:	07/11/2024	Logged By:	Jennifer Knipper
Project No:	25751.000.001	Hole Depth:	20'	Reviewed By:	Seema Barua
Lat Lng:	33.984420, -117.709742	Boring Diameter:	8"	Drilling Co.:	2R Drilling
Surface Elevation:	630.5'	Method:	Hollow-Stem Auger	Hammer Type:	Auto 140-lb
Elevation Datum:	WGS84				

Depth (ft)	Elevation (ft)	Sample Graphic	Visual Classification and Remarks	Graphic Log	Water Levels	Uncorrected N-Value	Lab: Atterberg Limits (LL-PL-PI)	Lab: Fines (%)	Lab: Moisture Content (%)	Lab: Dry Density (pcf)	Lab: Shear Strength (psf)	Lab: Compressive Strength (psf)	Lab: Pocket Penetrometer (tsf)	Lab: Torvane (PSF)
0	630		**SILT** (**ML**), yellowish brown, dry to moist, fine-grained sand											
5	625		**SANDY SILT** (**ML**), yellowish brown, stiff, moist			12								
10	620		**SILT WITH SAND** (**ML**), yellowish brown, stiff, moist			14								
15	615		Medium stiff			7								
20	610		**SILTY SAND** (**SM**), light yellowish brown, medium dense, moist, fine- to coarse-grained sand			14								
			End of Boring at 20 feet below ground surface. Groundwater not encountered at the time of drilling.											

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Corporate Center Chino

Soil Boring: 1-P2

Project Address:	Corporate Center Avenue	Date Drilled:	07/11/2024	Logged By:	Jennifer Knipper
Project No:	25751.000.001	Hole Depth:	20'	Reviewed By:	Seema Barua
Lat Lng:	33.984532, -117.708933	Boring Diameter:	8"	Drilling Co.:	2R Drilling
Surface Elevation:	631.3'	Method:	Hollow-Stem Auger	Hammer Type:	Auto 140-lb
Elevation Datum:	WGS84				

Depth (ft)	Elevation (ft)	Sample Graphic	Visual Classification and Remarks	Graphic Log	Water Levels	Uncorrected N-Value	Lab: Atterberg Limits (LL-PL-PI)	Lab: Fines (%)	Lab: Moisture Content (%)	Lab: Dry Density (pcf)	Lab: Shear Strength (psf)	Lab: Compressive Strength (psf)	Lab: Pocket Penetrometer (tsf)	Lab: Torvane (PSF)
0	630		**SILT** (**ML**), yellowish brown, dry to moist, fine grained sand											
			Stiff											
5	625					14								
			SILTY SAND (**SM**), yellowish brown, medium dense, moist, fine-grained sand											
10	620					10								
			SILT WITH SAND (**ML**), yellowish brown, stiff, moist, fine-grained sand											
15	615					10								
			SILTY SAND (**SM**), yellowish brown, medium dense, moist, fine-grained sand											
20						12								

End of Boring at 20 feet below ground surface. Groundwater not encountered at the time of drilling.

ENGEO
Expect Excellence

Corporate Center Chino

Soil Boring: 1-P3

Project Address:	Corporate Center Avenue	Date Drilled:	07/11/2024	Logged By:	Jennifer Knipper
Project No:	25751.000.001	Hole Depth:	20'	Reviewed By:	Seema Barua
Lat Lng:	33.984116, -117.709359	Boring Diameter:	8"	Drilling Co.:	2R Drilling
Surface Elevation:	630.8'	Method:	Hollow-Stem Auger	Hammer Type:	Auto 140-lb
Elevation Datum:	WGS84				

Depth (ft)	Elevation (ft)	Sample Graphic	Visual Classification and Remarks	Graphic Log	Water Levels	Uncorrected N-Value	Lab: Atterberg Limits (LL-PL-PI)	Lab: Fines (%)	Lab: Moisture Content (%)	Lab: Dry Density (pcf)	Lab: Shear Strength (psf)	Lab: Compressive Strength (psf)	Lab: Pocket Penetrometer (tsf)	Lab: Torvane (PSF)
0	630		**SILT** (**ML**), yellowish brown, dry to moist											
5	625		**SILTY SAND** (**SM**), yellowish brown, loose, moist, fine-grained sand			9								
			SANDY SILT (**ML**), yellowish brown, medium stiff, moist, fine-grained sand											
10	620					7								
			SILTY SAND (**SM**), yellowish brown, medium dense, moist, fine- to coarse-grained sand											
15	615					16								
			POORLY GRADED SAND (**SP**), light yellowish brown, medium dense, moist, fine- to coarse-grained sand											
20						12								

End of Boring at 20 feet below ground surface. Groundwater not encountered at the time of drilling.



APPENDIX B

CPT DATA (KTE, 2024)

SUMMARY

OF

CONE PENETRATION TEST DATA

Project:

Chino Corporate Center
Corporate Center Avenue & Ramona Avenue
Chino, CA
July 12, 2024

Prepared for:

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Prepared by:

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SUMMARY
OF
CONE PENETRATION TEST DATA

1. INTRODUCTION

This report presents the results of a Cone Penetration Test (CPT) program carried out for the Chino Corporate Center project located at Coporate Center Avenue & Ramona Avenue in Chino, California. The work was performed by Kehoe Testing & Engineering (KTE) on July 12, 2024. The scope of work was performed as directed by ENGEO Incorporated personnel.

2. SUMMARY OF FIELD WORK

The fieldwork consisted of performing CPT soundings at six locations to determine the soil lithology. A summary is provided in **TABLE 2.1**.

LOCATION	DEPTH OF CPT (ft)	COMMENTS/NOTES:
CPT-1	50	
CPT-2	56	Refusal
CPT-2A	91	Refusal
CPT-3	50	
CPT-4	50	
CPT-5	50	

TABLE 2.1 - Summary of CPT Soundings

3. FIELD EQUIPMENT & PROCEDURES

The CPT soundings were carried out by **KTE** using an integrated electronic cone system manufactured by Vertek. The CPT soundings were performed in accordance with ASTM standards (D5778). The cone penetrometers were pushed using a 30-ton CPT rig. The cone used during the program was a 15 cm^2 cone with a cone net area ratio of 0.83. The following parameters were recorded at approximately 2.5 cm depth intervals:

- Cone Resistance (qc)
- Sleeve Friction (fs)
- Dynamic Pore Pressure (u)
- Inclination
- Penetration Speed

At locations CPT-2 & CPT-2A, shear wave measurements were obtained at various depths. The shear wave is generated using an air-actuated hammer, which is located inside the front jack of the CPT rig. The cone has a triaxial geophone, which recorded the shear wave signal generated by the air hammer.

The above parameters were recorded and viewed in real time using a laptop computer. Data is stored at the KTE office for up to 2 years for future analysis and reference. A complete set of baseline readings was taken prior to each sounding to determine temperature shifts and any zero load offsets. Monitoring base line readings ensures that the cone electronics are operating properly.

4. CONE PENETRATION TEST DATA & INTERPRETATION

The Cone Penetration Test data is presented in graphical form in the attached Appendix. These plots were generated using the CPeT-IT program. Penetration depths are referenced to ground surface. The soil behavior type on the CPT plots is derived from the attached CPT SBT plot (Robertson, "Interpretation of Cone Penetration Test…", 2009) and presents major soil lithologic changes. The stratigraphic interpretation is based on relationships between cone resistance (qc), sleeve friction (fs), and penetration pore pressure (u). The friction ratio (Rf), which is sleeve friction divided by cone resistance, is a calculated parameter that is used along with cone resistance to infer soil behavior type. Generally, cohesive soils (clays) have high friction ratios, low cone resistance and generate excess pore water pressures. Cohesionless soils (sands) have lower friction ratios, high cone bearing and generate little (or negative) excess pore water pressures.

The CPT data files have also been provided. These files can be imported in CPeT-IT (software by GeoLogismiki) and other programs to calculate various geotechnical parameters.

It should be noted that it is not always possible to clearly identify a soil type based on qc, fs and u. In these situations, experience, judgement and an assessment of the pore pressure data should be used to infer the soil behavior type.

If you have any questions regarding this information, please do not hesitate to call our office at (714) 901-7270.

Sincerely,

KEHOE TESTING & ENGINEERING



Steven P. Kehoe
President

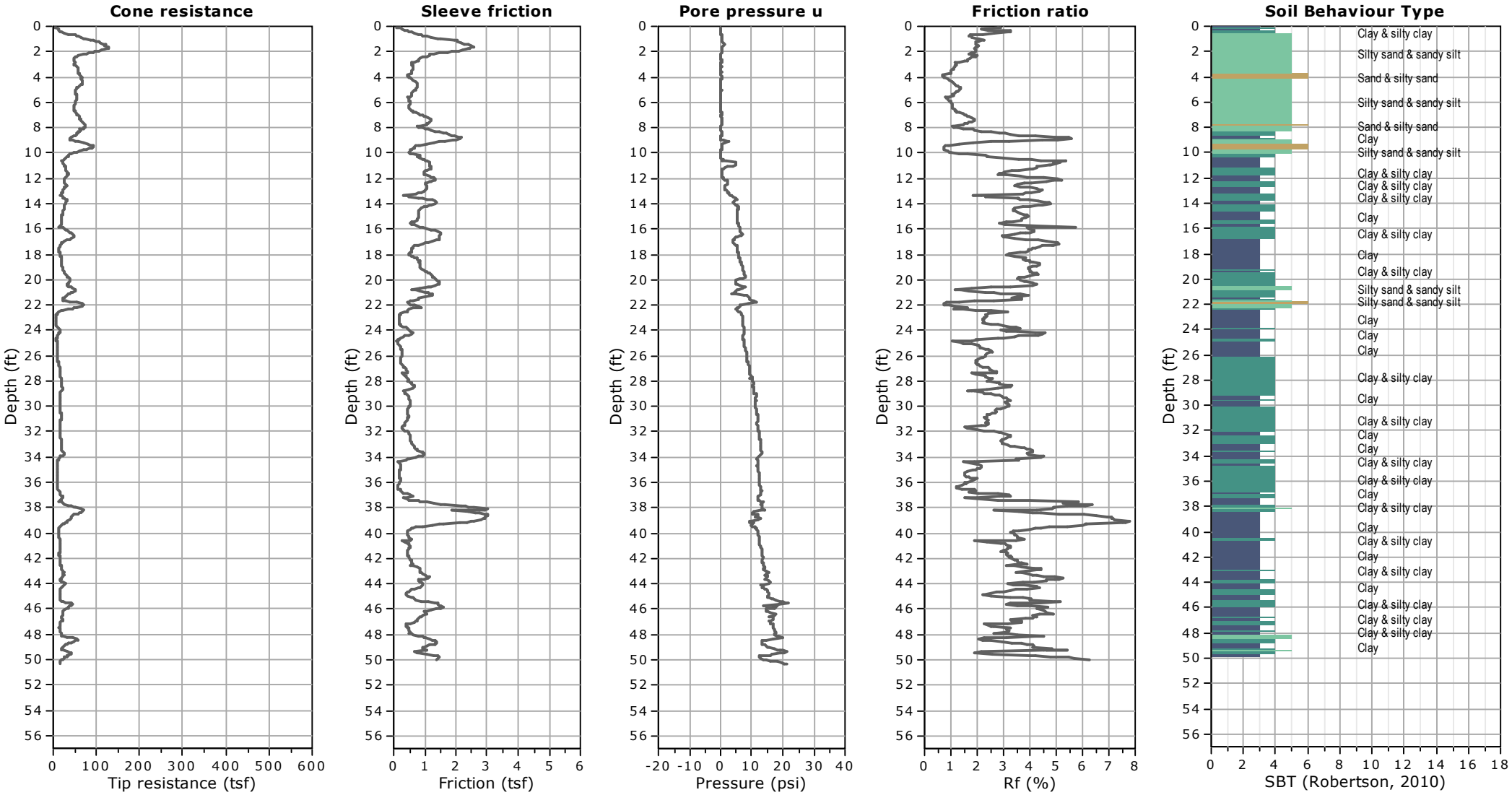
07/17/24-eb-6655

APPENDIX

Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: **ENGEO / Chino Corporate Center**
Location: **Corporate Center Ave & Ramona Ave, Chino, CA**

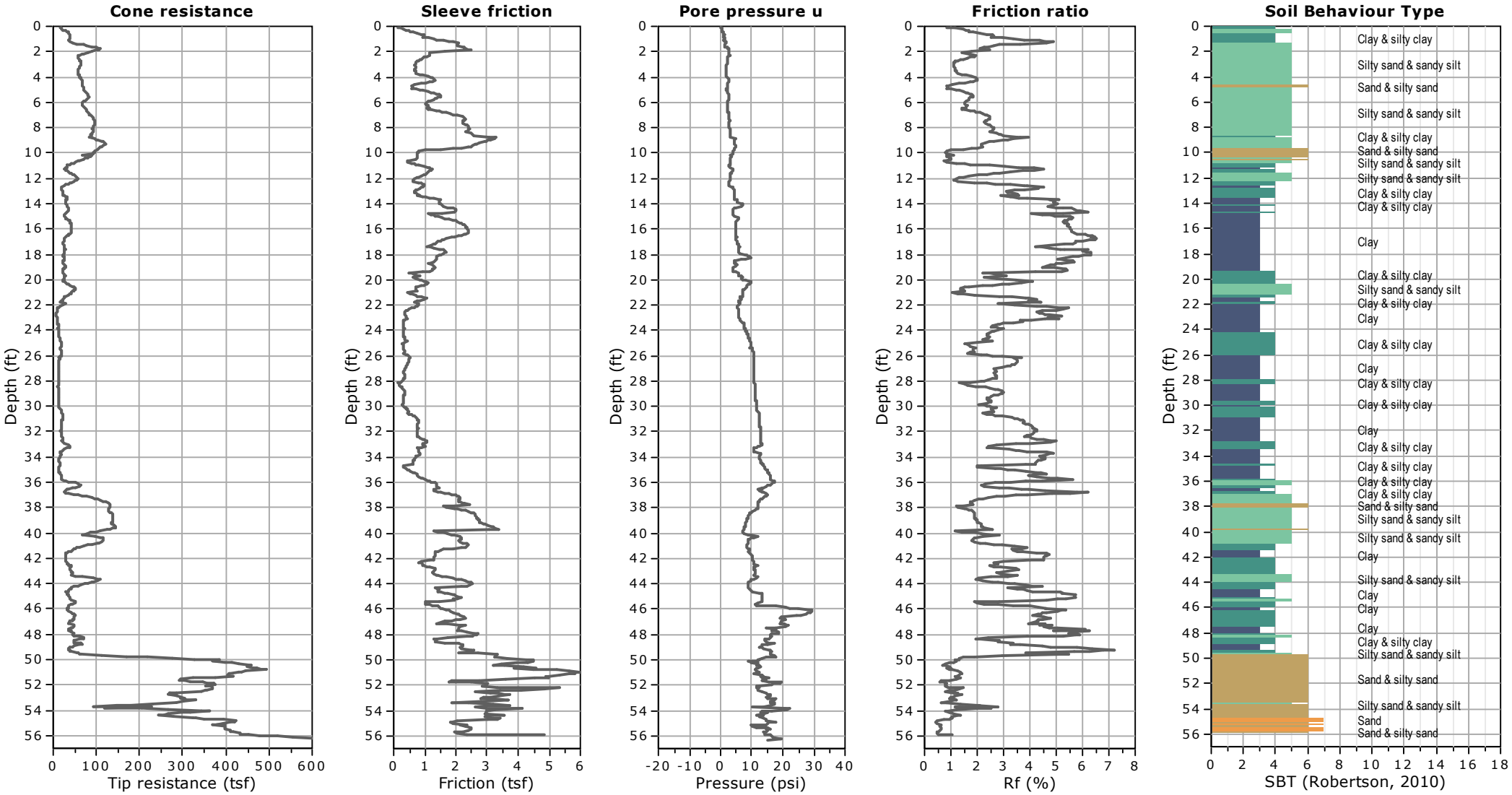
CPT-1
Total depth: 50.37 ft, Date: 7/12/2024



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Project: **ENGEO / Chino Corporate Center**
Location: **Corporate Center Ave & Ramona Ave, Chino, CA**

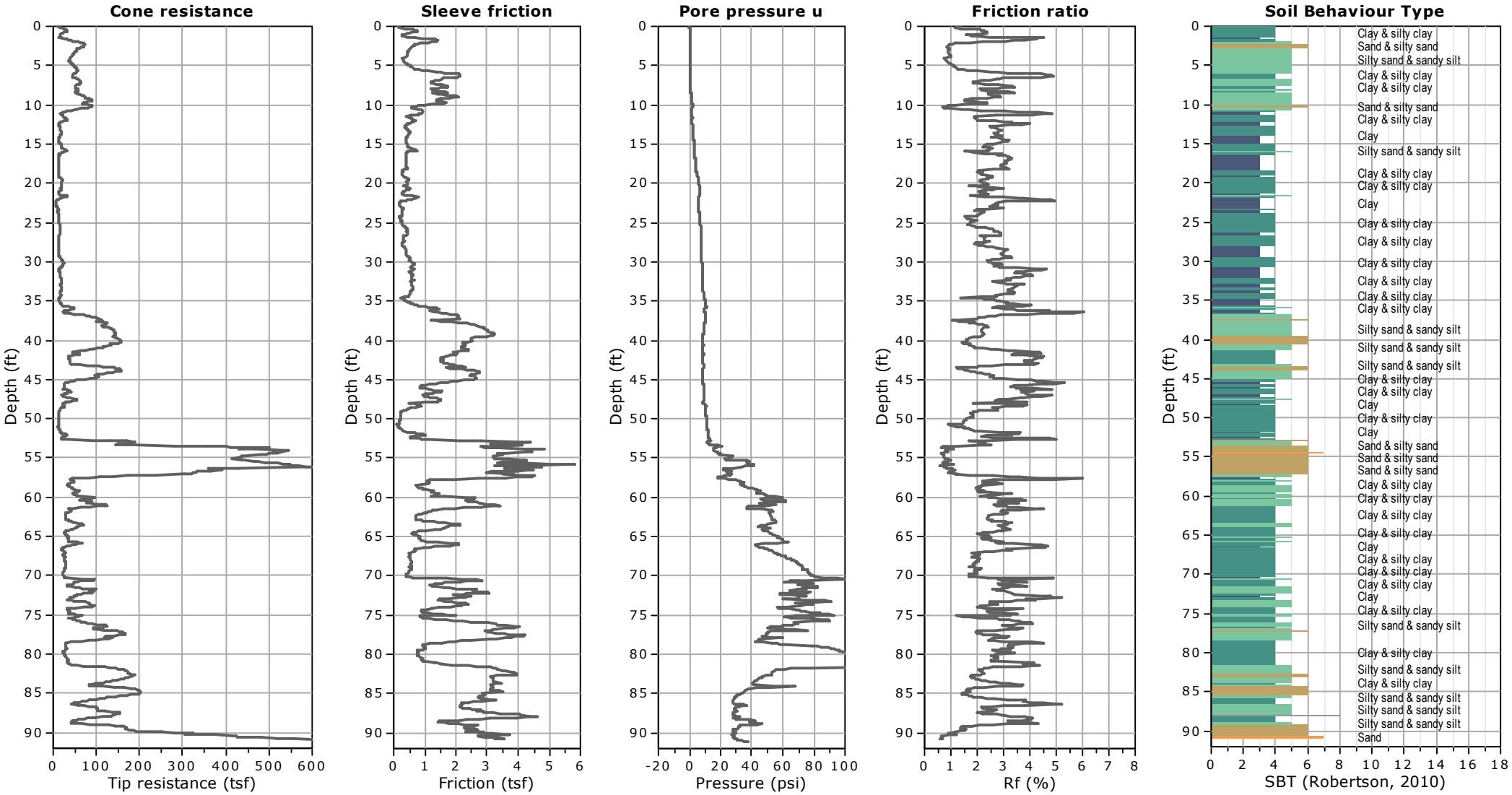
CPT-2
Total depth: 56.32 ft, Date: 7/12/2024



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Project: **ENGEO / Chino Corporate Center**
Location: **Corporate Center Ave & Ramona Ave, Chino, CA**

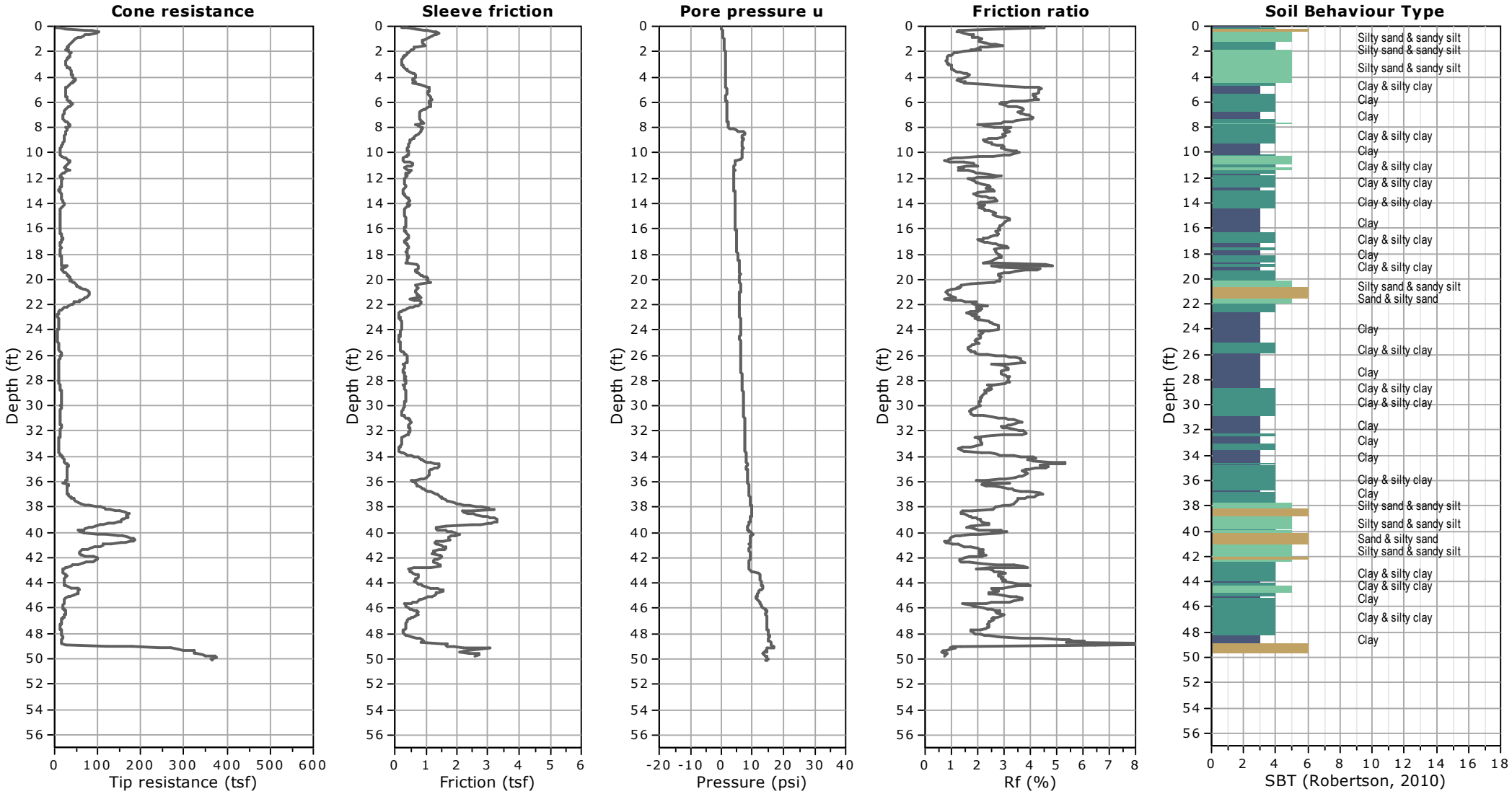
CPT-2A
Total depth: 91.18 ft, Date: 7/12/2024



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Location: **Corporate Center Ave & Ramona Ave, Chino, CA**

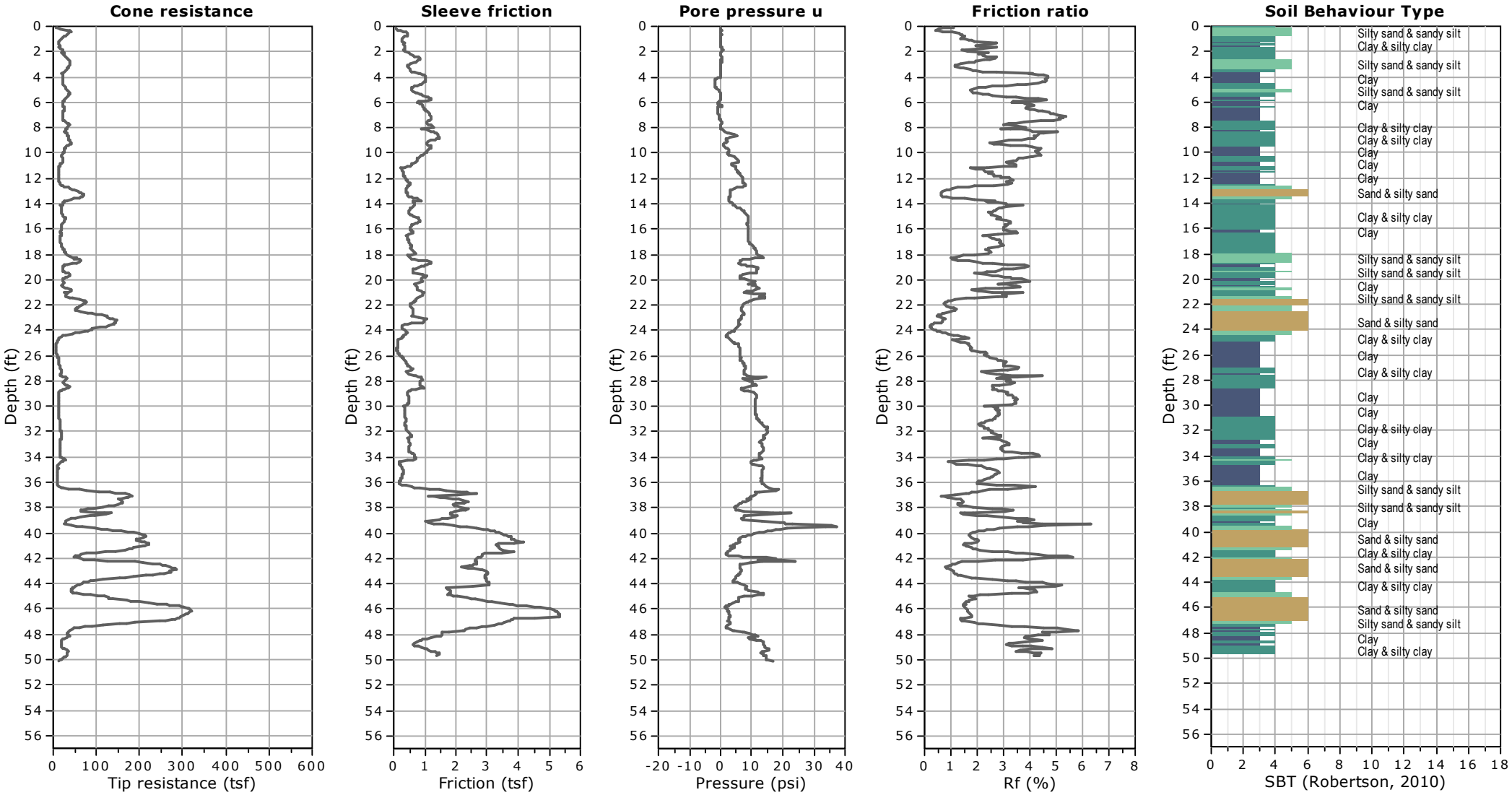
CPT-3
Total depth: 50.15 ft, Date: 7/12/2024



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Project: **ENGEO / Chino Corporate Center**
Location: **Corporate Center Ave & Ramona Ave, Chino, CA**

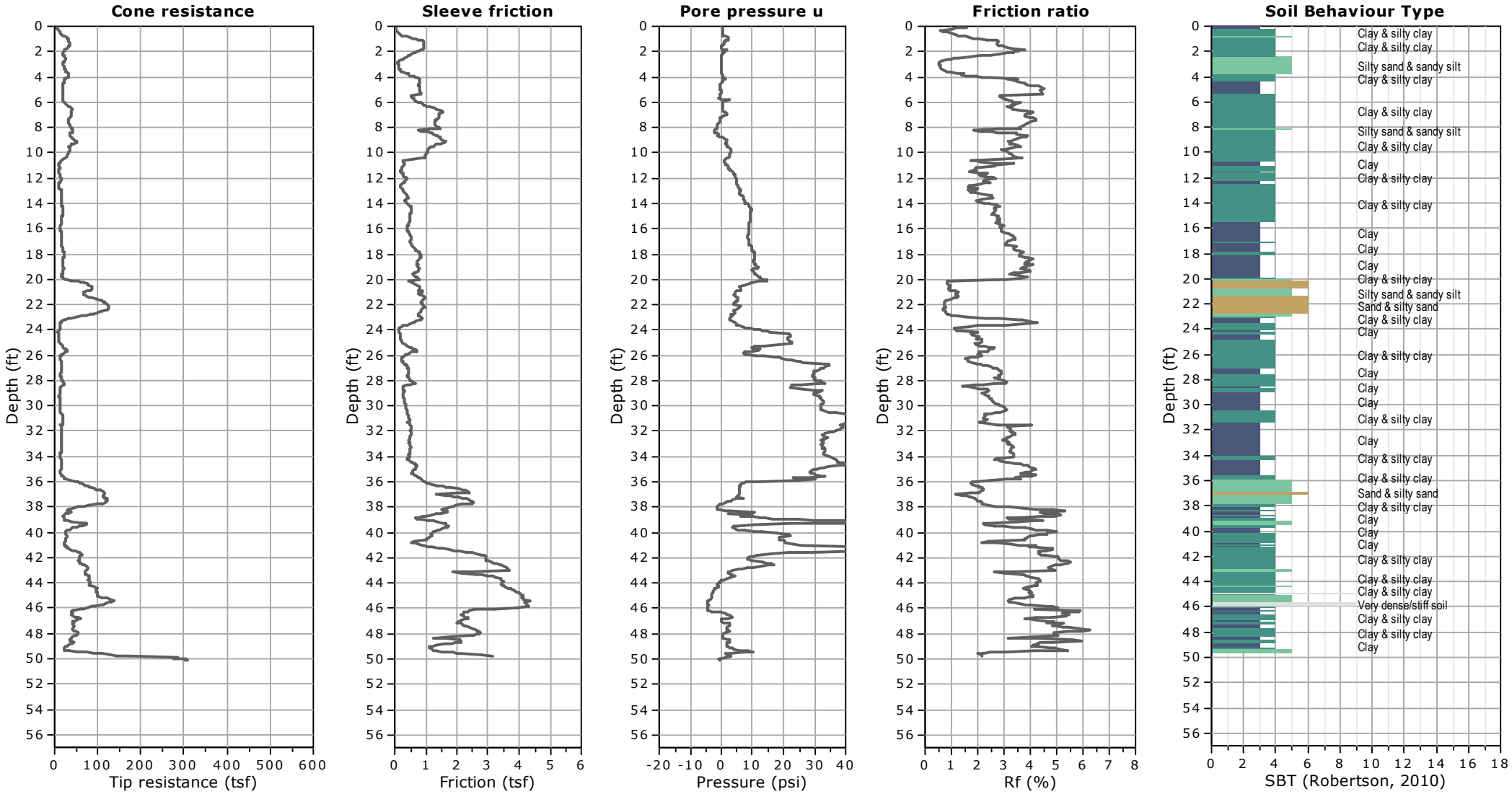
CPT-4
Total depth: 50.10 ft, Date: 7/12/2024



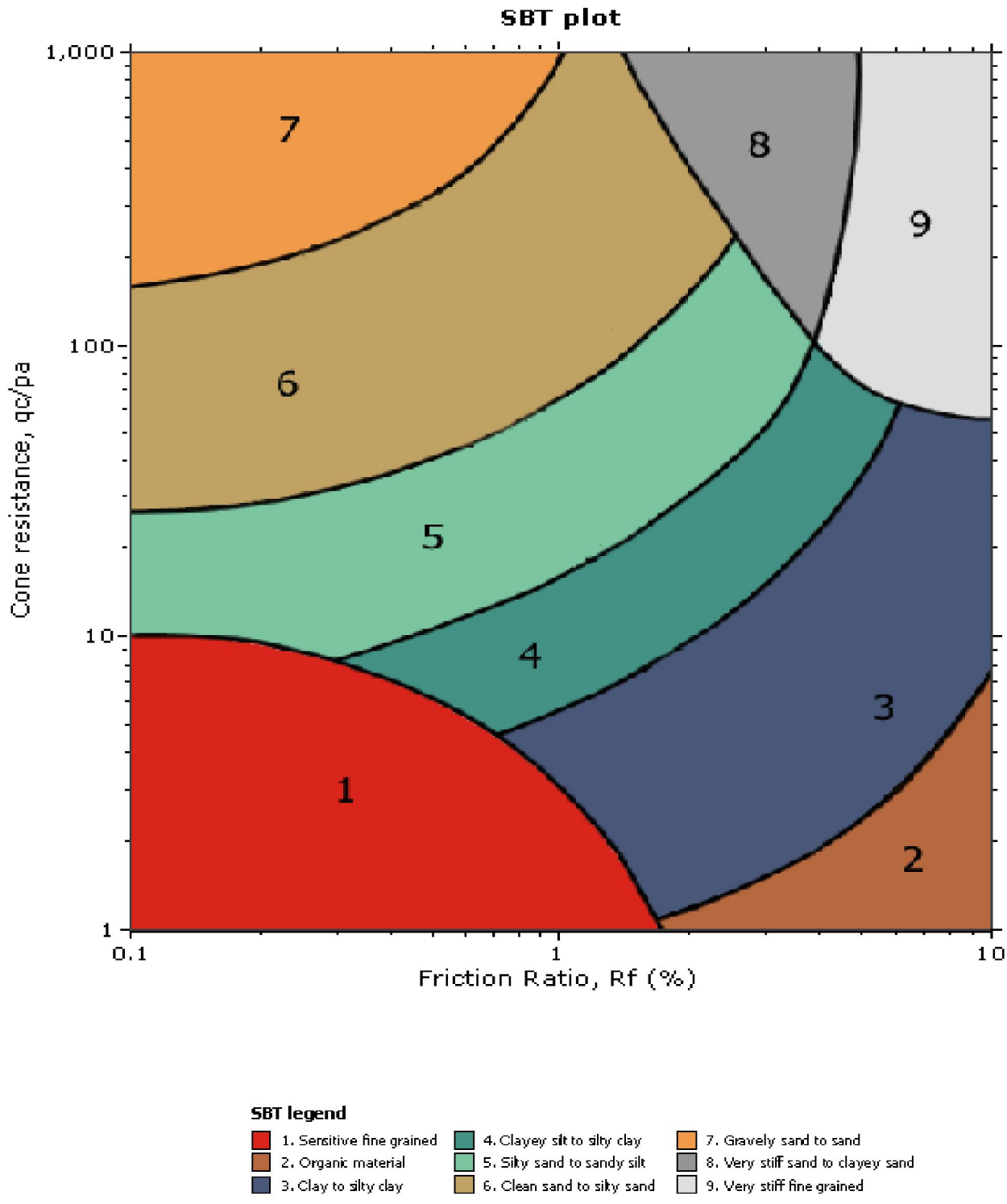
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Project: **ENGEO / Chino Corporate Center**
Location: **Corporate Center Ave & Ramona Ave, Chino, CA**

CPT-5
Total depth: 50.15 ft, Date: 7/12/2024



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ENGEO
Chino Corporate Center
Chino, CA

CPT Shear Wave Measurements

Location	Tip Depth (ft)	Geophone Depth (ft)	Travel Distance (ft)	S-Wave Arrival (msec)	S-Wave Velocity from Surface (ft/sec)	Interval S-Wave Velocity (ft/sec)
CPT-2	4.99	3.99	4.46	5.76	775	
	10.07	9.07	9.29	12.52	742	714
	15.06	14.06	14.20	19.50	728	704
	20.05	19.05	19.15	27.28	702	637
	25.00	24.00	24.08	36.16	666	555
	30.09	29.09	29.16	42.40	688	813
	35.04	34.04	34.10	49.36	691	710
	40.06	39.06	39.11	56.30	695	722
	45.05	44.05	44.10	61.76	714	913
	50.03	49.03	49.07	67.24	730	908
	55.05	54.05	54.09	72.26	749	999
	56.23	55.23	55.27	73.12	756	1371
CPT-2A	60.10	59.10	59.13	76.54	773	
	65.06	64.06	64.09	81.36	788	1029
	70.11	69.11	69.14	86.72	797	942
	75.03	74.03	74.06	90.56	818	1281
	80.09	79.09	79.12	94.84	834	1182
	85.07	84.07	84.09	99.02	849	1191
	90.09	89.09	89.11	103.84	858	1041
	91.08	90.08	90.10	104.68	861	1178

Shear Wave Source Offset - 2 ft

S-Wave Velocity from Surface = Travel Distance/S-Wave Arrival
Interval S-Wave Velocity = (Travel Dist2-Travel Dist1)/(Time2-Time1)



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Appendix G. Roadway Construction Noise Model Results

Roadway Construction Noise Model (RCNM),Version 1.1

Report dat 6/9/2025
Case Desc Chino Corporate Center Project

		---- Receptor #1 ----		
		Baselines (dBA)		
Descriptio	Land Use	Daytime	Evening	Night
Extended S	Commerci	55	50	45

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Dozer	No	40		81.7	70	0
Excavator	No	40		80.7	70	0
Grader	No	40	85		70	0

			Results					
	Calculated (dBA)		Noise Limits (dBA)					
			Day		Evening		Night	
Equipment	*Lmax	L10	Lmax	L10	Lmax	L10	Lmax	L10
Dozer	78.7	77.8	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	77.8	76.8	N/A	N/A	N/A	N/A	N/A	N/A
Grader	82.1	81.1	N/A	N/A	N/A	N/A	N/A	N/A
Total	82.1	83.7	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

	Noise Limit Exceedance (dBA)				
Day		Evening		Night	
Lmax	L10	Lmax	L10	Lmax	L10
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

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Appendix H. Exterior Noise and Exterior Façade Acoustical Analysis

Veneklasen Associates
Consultants in Acoustics | Noise | Vibration | AV | IT

November 7, 2024

BCT Development
130 Newport Center Drive, Suite 210
Newport Beach, California 92660

Attention: Clarke Campion | Development Manager

Subject: **Chino Corporation Center**
Chino, California
Exterior Noise and Exterior Façade Acoustical Analysis
Veneklasen Project No. 8469-001-001

Dear Clarke:

Veneklasen Associates, Inc. (Veneklasen) has completed the review of the Chino Corporation Center project located in Chino, California. This report predicts the exterior noise level at the site using measurements and computer modeling. Using this information, interior noise levels were calculated based on the exterior noise exposure and the construction types proposed. From this, the exterior façade design was determined. This report discusses the results of the analysis.

1.0 EXECUTIVE SUMMARY

Exterior noise level measurements were conducted at the subject project site in order to determine required mitigation measures to achieve applicable noise level limits for both exterior and interior residential and commercial spaces. Code requirements come from both the City of Chino and the State of California as summarized in Section 3.0 below.

Based on the exterior noise level measurements taken and the latest project documents provided, Veneklasen calculated the required acoustic mitigation to achieve said City and State noise requirements.

To achieve interior noise level requirements for residential areas, the following design elements are required:

- Windows and glass doors as shown in Table 3 with Transmission Loss values and STC ratings defined in Appendix I are required. Appendix I shall be the acoustical specification for all exterior windows and doors.
    - Optional: In order to meet Veneklasen's criterion for short-duration noise events, see Section 3.1, windows and glass doors with minimum STC ratings as shown in Table 4 are recommended. This is not required by code but will increase occupant comfort.
- Residential mechanical ventilation, or other means of natural ventilation, is required for units in all noise zones.

To achieve exterior noise level requirements for residential areas, exterior balconies in Noise Zones A and B on Level 2 shall incorporate 54-inch balcony barriers strategically placed to block direct line of sight from the adjacent freeway.

To achieve interior noise level requirements for commercial areas, windows and glass doors as shown in Table 5 with Transmission Loss values and STC ratings defined in Appendix I are required.

2.0 INTRODUCTION

This study was conducted to determine the impact of the exterior noise sources on the Chino Corporation Center project in Chino, California. Veneklasen's scope of work included calculating the exterior noise levels impacting the site and determining the method, if any, required to reduce the interior and exterior sound levels to meet the applicable code requirements of the State of California and the City of Chino.

The project consists of a collection of town homes with a pool and amenity building. The project is bounded by the Chino Valley Freeway to the southwest, a hotel to the northwest, Corporate Center Ave to the northeast, and a parking lot to the southeast.

3.0 NOISE CRITERIA

CNEL (Community Noise Equivalent Level) is the 24-hour equivalent (average) sound pressure level in which the evening (7 pm–10 pm) and nighttime (10 pm – 7 am) noise is weighted by adding 5 and 10 dB, respectively, to the hourly level. Since this is a 24-hour metric, short-duration noise events (truck pass-bys, buses, trains, etc.) are not as prominent in the analysis.

Leq (equivalent continuous sound level) is defined as the steady sound pressure level which, over a given period of time, has the same total energy as the actual fluctuating noise.

All reported noise levels are A-weighted.

3.1 Interior Noise Levels – Residential

The State of California Building Code (Title 24, Part 2, Section 1206 “Sound Transmission”) and the City of Chino Noise Element state that interior CNEL for residential land uses are not to exceed 45 dB in any habitable room.

If the windows must be closed to meet an interior CNEL of 45 dB, then a mechanical ventilating system or other means of natural ventilation may be required.

Although not a regulatory requirement, Veneklasen suggests that the maximum noise level from short-duration noise events during the night not exceed 55 dB. This criterion is based on sleep disturbance research and experience with similar projects.

3.2 Exterior Noise Levels

The City of Chino Noise Element requires that private balconies and patios must not be exposed to noise levels greater than 65 dB CNEL.

3.3 CALGreen – Non-Residential

The California Green Building Standards Code (CALGreen Section 5.507.4.2) stipulates that for buildings exposed to a noise level of 65 dB or more when measured as a 1-hour Equivalent Sound Level (Leq), the building façade, including walls, windows, and roofs, shall provide enough sound insulation so that the interior sound level from exterior sources does not exceed 50 dB during any hour of operation. This applies to non-residential spaces such as retail space, leasing, and amenities.

4.0 EXTERIOR NOISE ENVIRONMENT

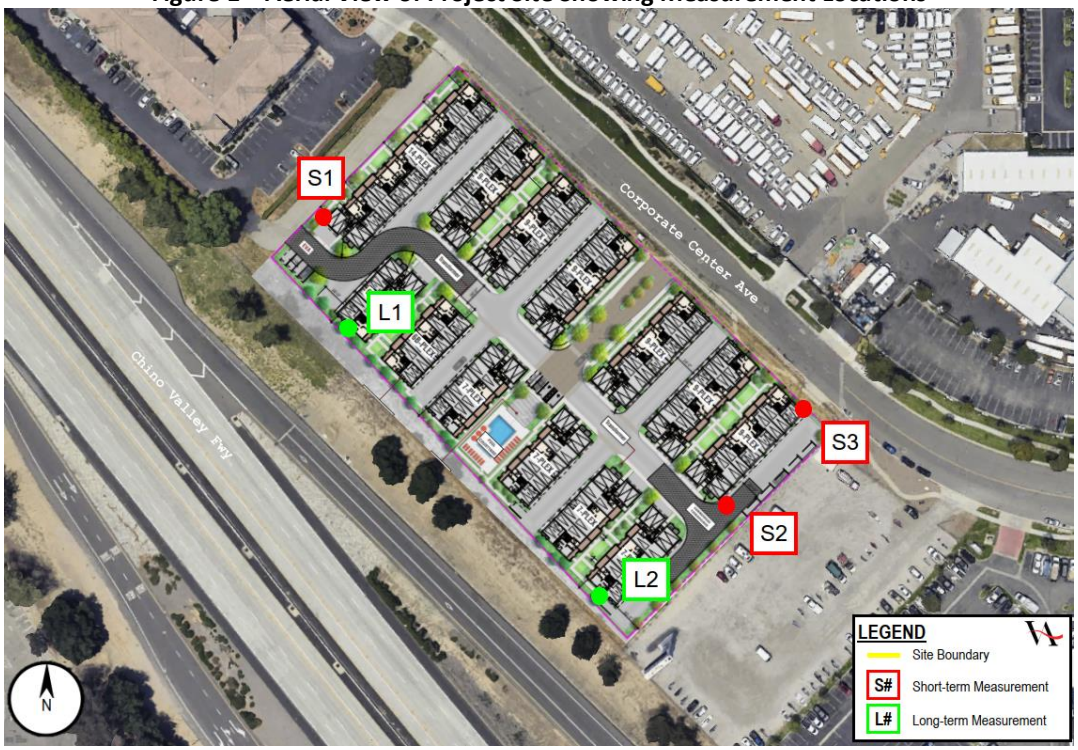
4.1 Noise Measurements

Traffic on the Chino Valley Freeway is the primary source of noise affecting the site. Veneklasen visited the site on Thursday, October 24, 2024 and placed meters around the site to capture sound level over a 4-hour period. Table 1 and Figure 1 show the location and summary of the noise measurements.

Table 1 – Measured Sound Levels

Location	Measured Level (dB)
L1	70
L2	68
S1	70
S2	66
S3	63

Figure 1 – Aerial View of Project Site Showing Measurement Locations



4.2 Chino Airport

Chino Airport is about 4 miles away from the site. The airport hosts small private planes. The site is below the flight path of many of the planes. The average plane event captured was 80 dBA. This level is consistent for the entire site. Veneklasen captured six (6) aircraft overflights over a 4-hour period.

4.3 Computer Modeling

Veneklasen utilized the 2023 version of the SoftNoise Predictor-LimA modeling program to verify and predict vehicular noise levels at various locations around the site due to traffic conditions. The primary purpose of the computer model was to determine how the noise environment will change due to traffic and site changes.

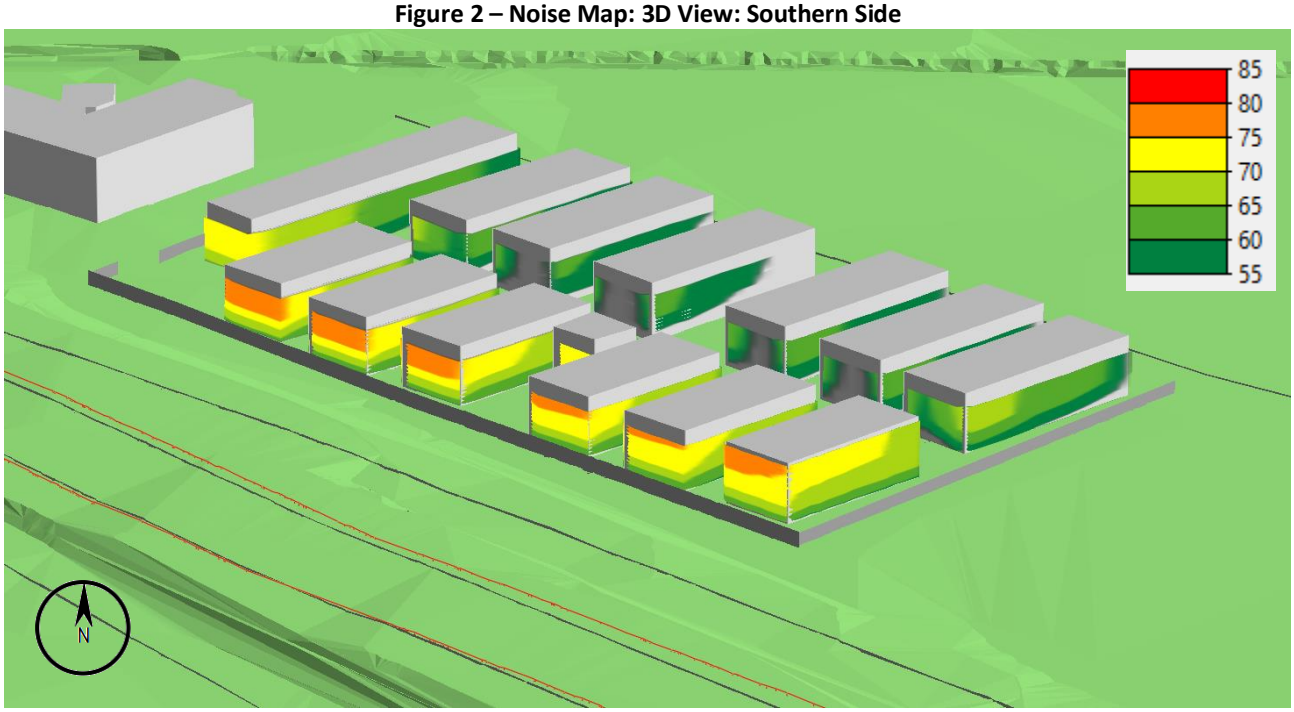
Traffic counts for the streets were obtained from the California Department of Transportation[1].

Only the freeway was modeled as the other streets' traffic flow had a negligible impact on the site compared to the freeway. However, event noise from buses and trucks on these streets were still accounted for using another computer model. Noise maps of the site are shown below. Buildings are represented as gray areas.

[1] https://navigatela.lacity.org/navigatela/

Designed 8-ft and 6-ft CMU barriers are included as solid-gray planes and roads are red, dashed lines. Sound levels are shown in CNEL.

Figure 2 – Noise Map: 3D View: Southern Side



4.4 Overall Exterior Exposure

To simplify the presentation of the exterior noise levels, Veneklasen has separated the site into locations based on the sound exposure and required mitigation. The predicted sound levels at each zone, shown in Figure 3, are listed in Table 2 below.

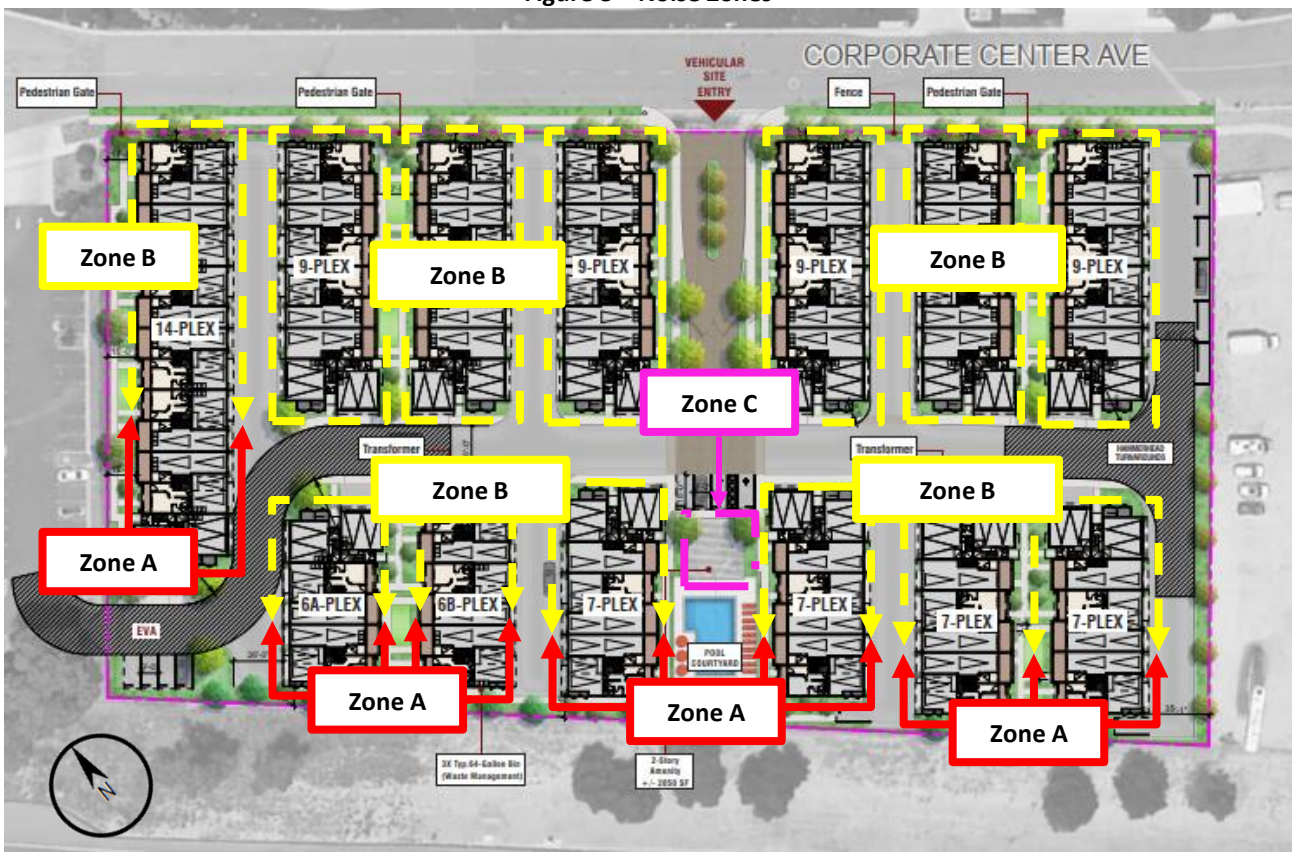
CALGreen is based on the loudest hourly noise level. Veneklasen utilized a statistical methodology to determine this level from the measurements[2].

Table 2 – Exterior Noise Levels

Location	Exterior CNEL (dB)	Ground Event Level (dB)	Plane Event Level (dB)	Exterior Loudest Daytime Hour (dB)
Zone A	70-76	80	80	---
Zone B	60-70	<80		---
Zone C	---	---		72

[2] LoVerde, John; Dong, Wayland; Rawlings, Samantha. *Noise Prediction of Traffic on Freeways and Arterials from Measured Data*, (Fort Lauderdale, Florida: Noise-Con 2014).

Figure 3 – Noise Zones



5.0 INTERIOR NOISE CALCULATION

5.1 Exterior Façade Construction

Calculations were based on the plans dated June 26, 2024. The exterior wall assembly will consist of 3-coat stucco over sheathing on wood studs with a single layer of gypsum board on the interior and batt insulation in the cavity.

Veneklasen's analysis included the roof path, but this was insignificant in the interior noise level calculated.

Veneklasen utilized the glazing ratings (glass, frame, and seals) shown in Appendix I. Appendix I shall be the specification for the exterior windows and doors.

5.2 Interior Average Noise Level (CNEL) – Residential

Veneklasen calculated the interior level within the residential units given the measured noise environment and the exterior façade construction described above. Table 3 shows the predicted interior CNEL based on the windows and doors with STC ratings as shown and glazing construction as described in Appendix I. Note that the STC ratings indicated in the table do not completely specify the building element performance, as the building element must also meet the octave band transmission loss across the frequency spectrum as specified in Appendix I.

Table 3 – Calculated Interior CNEL

Location	Floor	Exterior CNEL (dB)	Window/ Door Rating[3]	Interior CNEL (dB)
Zone A	2-3	74-76	STC 37	≤45
	1	68-73	STC 33	≤45
Zone B	All	60-73	STC 30	≤45

Where the noise level does not exceed 60, sound-rated assemblies are not required. However, Veneklasen recommends specifying a window with a minimum rating of STC 30 to maintain a consistent level of acoustical quality.

5.3 Interior Short-duration Noise Event – Veneklasen Recommended Glazing (Optional)

In a similar manner Veneklasen calculated the interior noise levels from the single-event noise sources such as busses and heavy truck pass-bys. As described in Section 3.1, Veneklasen's recommended interior nighttime noise level criterion is 55 dB. The glazing required to meet code were found to be sufficient to mitigate 95% of automobile noise.

Table 4 shows Veneklasen's recommended mitigation to reduce the interior noise levels due to Aircraft noise events.

Table 4 – Calculated Interior Short-Duration Event Noise Levels

Location	Exterior Plane Event Level (dB)	Glazing Rating	Interior Event Level (dB)
Zone A	80	STC 37	≤55
Zone B	80	STC 37	≤55

5.4 Mechanical Ventilation – Residential

Because the windows and doors must be kept closed to meet the noise requirements, mechanical or other means of ventilation may be required for units in all zones. The ventilation system shall not compromise the sound insulation capability of the exterior façade assembly.

5.5 CALGreen – Non-Residential

In a similar manner, Veneklasen calculated the noise level within non-residential spaces. CALGreen is based on the loudest hourly Leq. Veneklasen utilized a statistical methodology to determine this level from the measurements[4]. The results are shown in Table 5 below. Hourly noise level summaries and sample calculations are included in the appendices.

Table 5 – Calculated Interior Average Noise Levels at Non-Residential Areas

Location	Exterior Loudest Daytime Hour (dB)	Minimum Glazing	Interior Loudest Daytime Hour (dB)
Zone C	72	STC 30	< 50

[3] STC rating does not fully specify the building element performance. Refer to Appendix I.

[4] LoVerde, John; Dong, Wayland; Rawlings, Samantha. *Noise Prediction of Traffic on Freeways and Arterials from Measured Data*. (Fort Lauderdale, Florida: Noise-Con 2014).

6.0 EXTERIOR NOISE CALCULATION

6.1 Exterior Average Noise Level (CNEL) – Residential

Based on exterior noise levels reported above, balconies and patios in Zone A and portions of Zone B will exceed 65 dB CNEL. As stated in Section 3.2 above, The City of Chino Noise Element requires these areas be below 65 dB CNEL. Mitigation is required to comply.

It is understood that raising the existing freeway wall height is infeasible. Therefore, the sole mitigation measure is to construct individual 54-inch barriers at each Level 2 balcony to block direct line of sight to the freeway. Exact design will depend on individual unit layout and exposure to freeway noise.

7.0 SUMMARY

The following summarizes the acoustical items required to satisfy the noise criteria as described in this report.

Residential

- Exterior wall assembly is acceptable as described in Section 5.1.
- The roof assembly was included in the analysis and is not a significant path of sound and can remain as designed.
- Windows and glass doors as shown in Table 3 with Transmission Loss values and STC ratings defined in Appendix I are required. Appendix I shall be the acoustical specification for all exterior windows and doors.
- Optional: In order to meet Veneklasen's criterion for short-duration noise events, windows and glass doors with minimum STC ratings as shown in Table 4 are recommended. This is not required by code but will increase occupant comfort.
- Residential mechanical ventilation, or other means of natural ventilation, may be required for units in all zones.
- Exterior balcony and patio areas in Zone A and portions of Zone B exceed The City of Chino's allowable noise limits. 54-inch balcony barriers shall be strategically constructed to remove freeway line of sight to Level 2 balconies in these noise zones.

Non-Residential

- At retail, amenity, and other non-residential spaces, windows and glass doors as shown in Table 5 with Transmission Loss values and STC ratings defined in Appendix I are required to meet the CALGreen interior noise criterion.

Various noise mitigation methods may be utilized to satisfy the noise criteria described in this report. Alteration of mitigation methods that deviate from requirements should be reviewed by the acoustical consultant.

If you have any questions or comments regarding this report, please do not hesitate to contact the undersigned.

Sincerely,
Veneklasen Associates, Inc.

Liz Haggar
Associate

Kevin Patterson
Senior Associate

APPENDIX I – GLAZING REQUIREMENTS

In order to meet the predicted interior noise levels described in Section 5.0, the glazing shall meet the following requirements:

Table 6 – Acoustical Glazing Requirements: Minimum Octave Band Transmission Loss and STC Rating

Nominal Thickness	Minimum Transmission Loss Octave Band Center Frequency (Hz)						Min. STC Rating
	125	250	500	1000	2000	4000	
1" dual	21	18	27	34	37	32	**30**
1" dual	22	21	30	36	37	36	**33**
1" dual	24	27	35	39	40	42	**37**

The transmission loss values in the table above can likely be met with the following glazing assemblies:

1. Up to STC 35: nominal 1" insulated glazing unit
2. STC 37: nominal 1" laminated insulated glazing unit

An assembly's frame and seals may limit the performance of the overall system. Therefore, the window and door systems selected for the project shall not be selected on the basis of the STC rating of the glass alone, but on the entire assembly including frame and seals. Additionally, the assemblies given above are provided as a basis of design, but regardless of construction, the octave band Transmission Loss (TL) and STC value of the system selected must meet the minimum values in Table 6 above.

Independent laboratory acoustical test reports should be submitted for review by the design team to ensure compliance with glazing acoustical performance requirements. Laboratories shall be accredited by the Department of Commerce National Voluntary Laboratory Accreditation Program (NVLAP). Labs shall be pre-approved by Veneklasen Associates. Tests shall be required to be performed in North America. Lab tests and lab reports shall be in compliance with ASTM standard E90 and be no more than 10 years old from the date of submission for this project.

If test reports are not available for a proposed assembly, the assembly, including frame, seals and hardware, shall be tested at an independent pre-approved NVLAP-accredited laboratory to demonstrate compliance with the requirements of this report. Veneklasen shall be invited to witness acoustical testing completed and reserves the right to exclude test reports from laboratories that are not pre-approved by Veneklasen.

APPENDIX II – MEASURED HOURLY NOISE LEVELS

Location	Start Time	Duration	LAeq	LAFmax
L1	8:00 am	1:00:00	71	81
	9:00 am	1:00:00	70	80
	10:00 am	1:00:00	69	85
	11:00 am	1:00:00	69	81
L2	8:00 am	1:00:00	69	90
	9:00 am	1:00:00	68	79
	10:00 am	1:00:00	68	86
	11:00 am	1:00:00	67	77
S1	8:24 am	0:15:00	71	77
	9:24 am	0:15:00	70	78
S2	8:43 am	0:15:00	67	74
	9:43 am	0:15:00	65	75
S3	9:00 am	0:15:00	63	74
	10:00 am	0:15:00	62	73

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Appendix I. Traffic Impact Analysis

TRAFFIC IMPACT ANALYSIS

CHINO CORPORATE CENTER RESIDENTIAL PROJECT

CITY OF CHINO

SAN BERNARDINO COUNTY, CALIFORNIA

This Transportation Impact Analysis has been prepared under the supervision of Ambarish Mukherjee, P.E.



LSA

March 2025

TRAFFIC IMPACT ANALYSIS

CHINO CORPORATE CENTER RESIDENTIAL PROJECT

CITY OF CHINO

SAN BERNARDINO COUNTY, CALIFORNIA

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Project No. 20242048

March 2025

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LIST OF ABBREVIATIONS AND ACRONYMS

AASHTO	American Association of State Highway and Transportation Officials
CA-MUTCD	California Supplement of the Manual on Uniform Traffic Control Devices
CEQA	California Environmental Quality Act
City	City of Chino
CMP	Congestion Management Plan
EVA	Emergency Vehicle Access
FAR	floor area ratio
HCM	Highway Capacity Manual
HCM 7	Highway Capacity Manual, 7th Edition
HDM	Caltrans Highway Design Manual
ITE	Institute of Transportation Engineers
LDR	Local Development Review
LOS	level(s) of service
mph	miles per hour
OD	Origin/Destination
PCE	Passenger Car Equivalent
SBCTA	San Bernardino County Transportation Authority
SBTAM	San Bernardino Transportation Analysis Model
SCAQMD	South Coast Air Quality Management District
SHS	State Highway System
SP	Service Population
TAZ	traffic analysis zone
TIA	Traffic Impact Analysis
TIA Guidelines	Traffic Impact Analysis Guidelines
TPA	Transit Priority Area
TWLTL	Two-Way Left Turn Lanes
VMT	Vehicle Miles Traveled

1.0 INTRODUCTION

This Traffic Impact Analysis (TIA) has been prepared to assess the potential circulation impacts associated with the proposed Chino Corporate Center Residential Project (project) within the City of Chino (City) in San Bernardino County (County). Figure 1-1 illustrates the regional and project location (figures are located at the end of each chapter).

This TIA is intended to satisfy the requirements established by the City of Chino's (City) *Traffic Impact Analysis Guidelines* (TIA Guidelines), dated December 2020, *Traffic Impact Study Guidelines for Development Projects in the City of Chino Hills* (dated October 2001) and the City of Chino Hills General Plan Circulation Element (dated January 2025). As per the TIA Guidelines, the TIA should include two components: (1) a Level of Service (LOS) Analysis for General Plan consistency purposes and (2) a Vehicle Miles Traveled (VMT) Analysis. The scope of work for this TIA, including trip generation, trip distribution, study area, and analysis methodologies, has been approved by City staff via the Scoping Agreement process. A copy of the Scoping Agreement is included as Appendix A.

Additionally, according to the San Bernardino County Congestion Management Plan (CMP) guidelines and as mentioned in the City's TIA guidelines, a CMP TIA is required for projects that generate 250 two-way peak hour trips, or projects that add 50 two-way peak hour trips to CMP arterial highways/intersections, or 100 two-way peak hour trips to freeway segment. The proposed project does not meet any of these criteria; therefore, a CMP TIA would not be required based on the CMP guidelines.

This study examines traffic operations in the vicinity of the proposed project under the following four scenarios:

- Existing Conditions
- Existing With Project Traffic Conditions
- Opening Year Without Project Conditions
- Opening Year With Project Conditions
- Horizon Year Without Project Conditions
- Horizon Year With Project Conditions

Traffic conditions at study intersections were examined for weekday a.m. and p.m. peak-hour conditions. The a.m. peak hour is defined as the one (1) hour of highest traffic volumes occurring between 6:00 and 9:00 a.m. The p.m. peak hour is the one (1) hour of highest traffic volumes occurring between 4:00 and 7:00 p.m.

1.1 PROJECT DESCRIPTION

The proposed project includes development of 110 multi-family residential dwelling units and the opening year is anticipated to be 2026. Access to the project site will be provided via one full access driveway along Corporate Center Avenue and an Emergency Vehicle Access (EVA) only driveway that

is accessed through the adjacent Extended Stay America hotel driveway. Figure 1-2 illustrates the conceptual site plan for the proposed project.

1.2 STUDY AREA

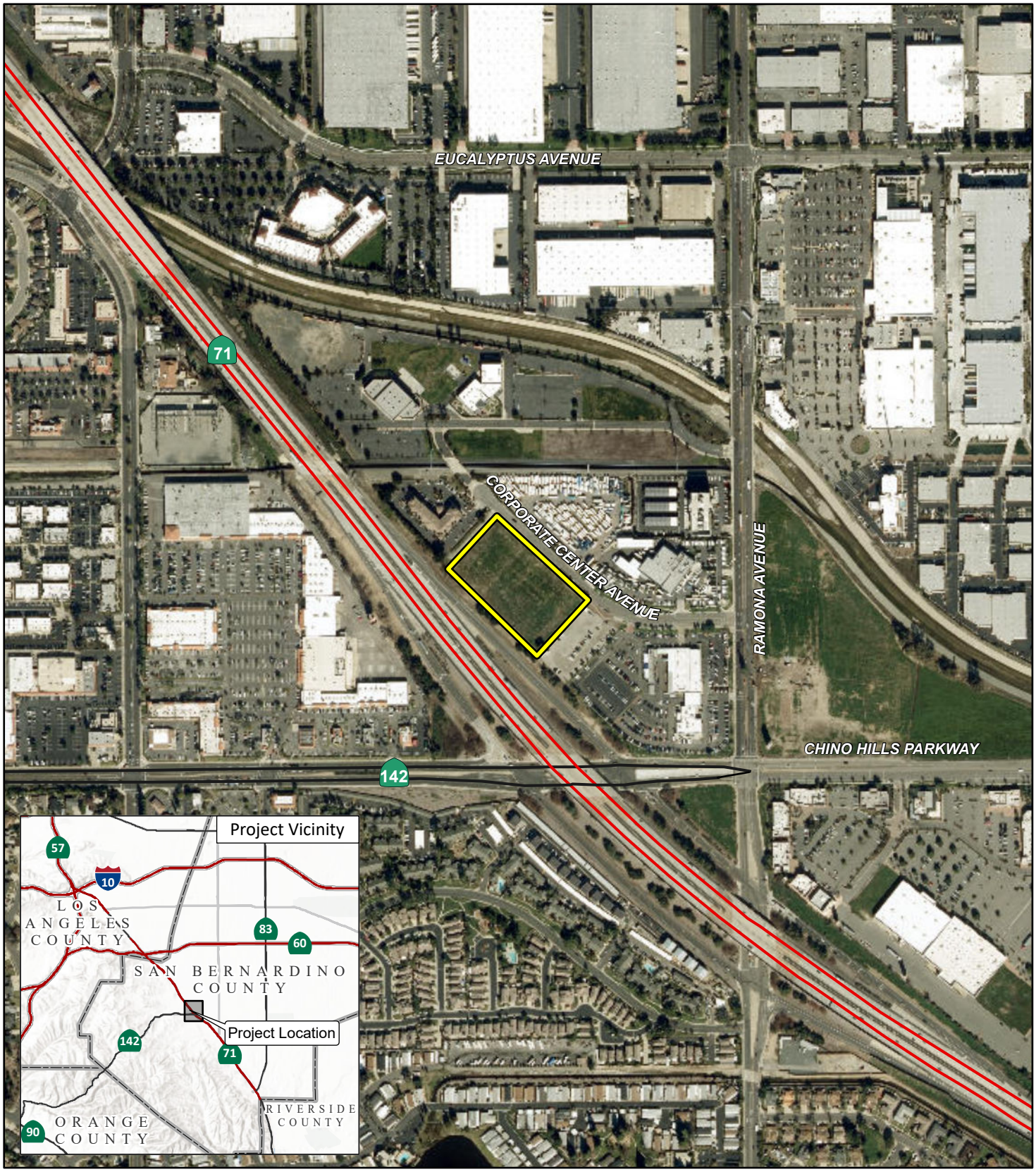
The study area for the project was determined based on the study area determination criteria defined in the City of Chino's Traffic Impact Analysis Guidelines (dated December 2020) and Traffic Impact Study Guidelines for Development Projects in the City of Chino Hills (dated October 2001). Additionally, according to the Caltrans's Local Development Review (LDR) Safety Review Practitioner's Guidance (dated February 2024), a Caltrans Safety Review may be required to the state highway system (SHS) if the project is anticipated to add substantial traffic to the SHS. The proposed project is located in close proximity to the State Route (SR) 71. However, the project is anticipated to add nominal trips (less than 25 peak hour trips) to SR-71. Therefore, a Caltrans Safety Review was not included as part of this analysis. Based on the City's TIA Guidelines and City of Chino Hills Traffic Impact Analysis Guidelines, the LOS analysis study area should include intersections where the proposed project is estimated to add 50 or more peak-hour trips, or where the proposed project may create an operational deficiency. The study area was approved by City staff via the City's Scoping Agreement process (Appendix A). As approved during the scoping agreement process, the study area includes the following intersections:

1. Ramona Avenue/Corporate Center Avenue (City of Chino);
2. Ramona Avenue/Chino Hills Parkway (City of Chino/City of Chino Hills); and
3. Project Driveway/Corporate Center Avenue (City of Chino).

Figure 1-3 illustrates the study area intersections.

1.3 LIST OF CHAPTER 1.0 FIGURES

- Figure 1-1: Regional and Project Location
- Figure 1-2: Conceptual Site Plan
- Figure 1-3: Study Area Intersections



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Project Location

FIGURE 1-1

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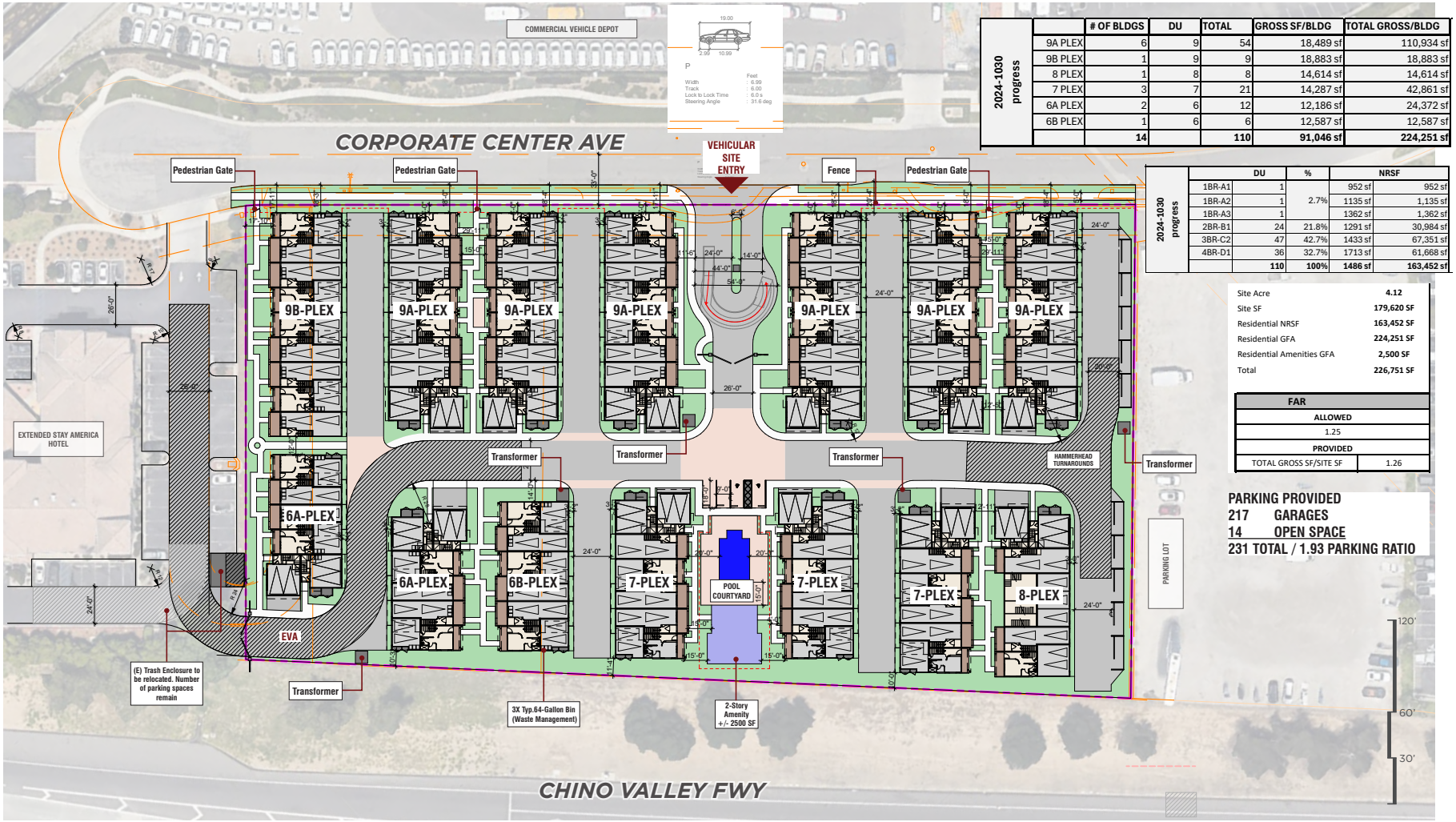
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FEET

Chino Corporate Center Residential Project
Traffic Impact Analysis
Regional and Project Location

SOURCE: ESRI Streets, 2021; Google Earth, 2023.

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2024-1030 progress		# OF BLDGS	DU	TOTAL	GROSS SF/BLDG	TOTAL GROSS/BLDG
	9A PLEX	6	9	54	18,489 sf	110,934 sf
	9B PLEX	1	9	9	18,883 sf	18,883 sf
	8 PLEX	1	8	8	14,614 sf	14,614 sf
	7 PLEX	3	7	21	14,287 sf	42,861 sf
	6A PLEX	2	6	12	12,186 sf	24,372 sf
	6B PLEX	1	6	6	12,587 sf	12,587 sf
		14		**110**	**91,046 sf**	**224,251 sf**

2024-1030 progress		DU	%	NRSF	
	1BR-A1	1	2.7%	952 sf	952 sf
	1BR-A2	1		1135 sf	1,135 sf
	1BR-A3	1		1362 sf	1,362 sf
	2BR-B1	24	21.8%	1291 sf	30,984 sf
	3BR-C2	47	42.7%	1433 sf	67,351 sf
	4BR-D1	36	32.7%	1713 sf	61,668 sf
		110	**100%**	**1486 sf**	**163,452 sf**

Site Acre	**4.12**
Site SF	**179,620 SF**
Residential NRSF	**163,452 SF**
Residential GFA	**224,251 SF**
Residential Amenities GFA	**2,500 SF**
Total	**226,751 SF**

FAR	
ALLOWED	
1.25	
PROVIDED	
TOTAL GROSS SF/SITE SF	1.26

PARKING PROVIDED
217 GARAGES
14 OPEN SPACE
231 TOTAL / 1.93 PARKING RATIO

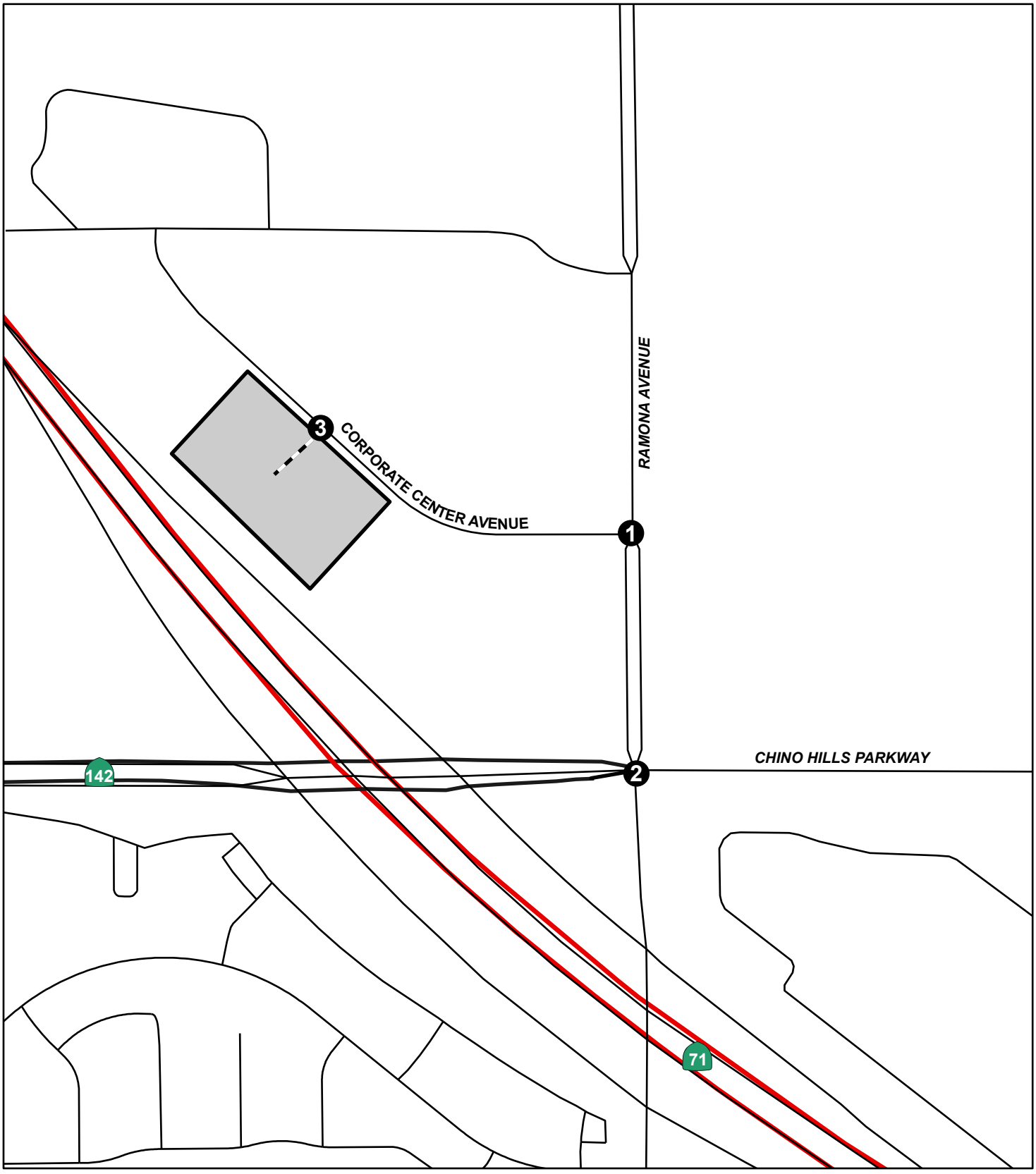
LSA

FIGURE 1-2

Chino Corporate Center Residential Project
Traffic Impact Analysis

Conceptual Site Plan

SOURCE: TCA Architects and BCT Development, October 2024.
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FIGURE 1-3

LEGEND

Project Location

Study Intersections

Project Driveway

N

0 180 360

FEET

SOURCE:ESRI Streets, 2021.

Chino Corporate Center Residential Project
Traffic Impact Analysis
Study Area Intersections

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2.0 ANALYSIS METHODOLOGY

2.1 LEVEL OF SERVICE DEFINITIONS

Level of service (LOS) can be characterized for the whole intersection, for each intersection approach, and by each lane group. Control delay alone is used to characterize LOS for the entire intersection. Control delay quantifies the increase in travel time due to the traffic signal control and is a surrogate measure of driver discomfort and fuel consumption.

A complete description of the meaning of LOS can be found in the Transportation Research Board Special Report 209, *Highway Capacity Manual* (HCM). The HCM establishes LOS A through F for intersections. A description of LOS for signalized and unsignalized intersections is summarized in Table 2.A (tables are provided at the end of each chapter). Table 2.B shows the LOS criteria for unsignalized and signalized intersections using the HCM methodologies.

Consistent with the TIA Guidelines, the *Highway Capacity Manual 7* (HCM 7) analysis methodologies were used to determine intersection LOS for all study area intersections. Intersection LOS were calculated using Synchro 12 software, which uses the HCM 7 methodologies.

2.2 LEVEL OF SERVICE THRESHOLDS

Study intersections analyzed in this report are under the jurisdiction of the City of Chino and City of Chino Hills. Both City of Chino and City of Chino Hills uses LOS D as its minimum LOS criterion for all intersections. As such, operational improvements will be required for an intersection that is currently operating or forecast to operate at a deficient LOS.

2.3 PROJECT-RELATED OPERATIONAL DEFICIENCY CRITERIA

The determination of the project-related operational deficiency is based on the criteria contained in the TIA Guidelines. The TIA Guidelines state that, operational improvements are required if at the intersections where the LOS falls below or is expected to fall below an acceptable threshold with or without the addition of the project, feasible measures shall be identified to mitigate the project's impacts for all project scenario conditions.

2.4 LIST OF CHAPTER 2.0 TABLES

- Table 2.A: Level of Service Definitions for Intersections
- Table 2.B: Level of Service Criteria for Unsignalized and Signalized Intersections

Table 2.A: Level of Service Definitions for Intersections

LOS	Description
A	Traffic operations with a control delay of 10 seconds per vehicle or less and a v/c ratio no greater than 1.0. This level is typically assigned when the v/c ratio is low and either progression is exceptionally favorable or the cycle length is very short. If LOS A is the result of favorable progression, most vehicles arrive during the green indication and travel through the intersection without stopping.
B	Traffic operations with control delay between 10 seconds per vehicle and 20 seconds per vehicle and a v/c ratio no greater than 1.0. This level is typically assigned when the v/c ratio is low and either progression is highly favorable or the cycle length is short. More vehicles stop than with LOS A.
C	Traffic operations with control delay between 20 and 35 seconds per vehicle and a v/c ratio no greater than 1.0. This level is typically assigned when progression is favorable or the cycle length is moderate. Individual cycle failures (i.e., one or more queued vehicles are not able to depart as a result of the insufficient capacity during the cycle) may begin to appear at this level. The number of vehicles stopping is significant, although many vehicles still pass through the intersection without stopping.
D	Traffic operations with control delay between 35 and 55 seconds per vehicle and a v/c ratio no greater than 1.0. This level is typically assigned when the v/c ratio is high and either progression is ineffective or the cycle length is long. Many vehicles stop and individual cycle failures are noticeable.
E	Traffic operations with control delay between 55 and 80 seconds per vehicle and a v/c ratio no greater than 1.0. This level is typically assigned when v/c ratio is high, progression is unfavorable, and the cycle length is long. Individual cycle failures are frequent.
F	Traffic operations with control delay exceeding 80 seconds per vehicle or a v/c ratio greater than 1.0. This level is typically assigned when the v/c ratio is very high, progression is very poor, and the cycle length is long. Most cycles fail to clear the queue.

Source: Highway Capacity Manual (7th Edition).
LOS = level of service
v/c = volume to capacity

Table 2.B: Level of Service Criteria for Unsignalized and Signalized Intersections

Level of Service	Unsignalized Intersection Average Delay per Vehicle (sec)	Signalized Intersection Average Delay per Vehicle (sec)
A	< 10	< 10
B	> 10 and < 15	> 10 and < 20
C	> 15 and < 25	> 20 and < 35
D	> 25 and < 35	> 35 and < 55
E	> 35 and < 50	> 55 and < 80
F	> 50	> 80

Source: *Highway Capacity Manual* (7th Edition).
sec = seconds

3.0 EXISTING CONDITIONS

3.1 EXISTING ROADWAY NETWORK

This section provides a description of the intersection geometry and circulation network within the study area. Within the City, all major roadways are classified based on the Transportation and Multi-Modal Mobility Element of the *City's General Plan Update Technical Background Report*, dated September 2023. Figure 3-1 and 3-2 shows the City of Chino and City of Chino Hills roadway classification, respectively. Following is a brief description of major roadways within the TIA study area:

- **Ramona Avenue:** Based on the City's roadway classification, Ramona Avenue is designated as a Major Arterial. Within the study area, Ramona Avenue is currently a four-lane divided roadway south of Corporate Center Avenue and a divided Arterial with intermittent two-way left turn lanes (TWLTL) north of Corporate Center Avenue with a posted speed limit of 40 miles per hour (mph). There are no bike facilities or provision for on-street parking along either direction of the entire segment within the study area.

- **Chino Hills Parkway:** Based on the City's roadway classification, Chino Hills Parkway is designated as a Primary Arterial. Within the study area, Chino Hills Parkway is currently a five-lane undivided roadway with a posted speed limit of 40 mph. There are Class II bikeways along westbound direction west of Ramona Avenue and eastbound direction east of Ramona Avenue within this segment. There is no provision for on-street parking along either direction of the entire segment within the study area.

- **Corporate Center Avenue:** This east-west local roadway provides access to the hotel and commercial facilities, including the proposed project. This roadway is a two-lane local roadway facility. As such, there is no designation for this roadway segment in the City's General Plan Update Technical Background Report Transportation and Multi-Modal Mobility Element. There are no bike facilities or provision for on-street parking along either direction of the entire segment within the study area.

Figure 3-3 illustrates existing with project study intersection geometrics and traffic control.

3.2 BICYCLE, PEDESTRIAN, TRANSIT, AND TRUCK FACILITIES

3.2.1 Bicycle Facilities

To facilitate and encourage bikeability and among other non-motorized modes of travel, the City of Chino has adopted a Bicycle and Pedestrian Master Plan in 2016. Chino's Bicycle and Pedestrian Master Plan aims to enhance walkability and bikeability in Chino by creating a network of connected pedestrian and bicycle facilities. It seeks to improve local access to transit, jobs, and services while promoting safety for pedestrians, cyclists, and public transportation users. Additionally, the Master Plan prioritizes strategies to improve public health and reduce environmental impacts, along with providing funding strategies to support its recommendations.

According to the Bicycle and Pedestrian Master Plan, the bikeway network within Chino is classified into four categories: Class I, Class II, Class III, and Class IV. Class I bikeways are multi-use facilities that provide travel on a paved right-of-way completely separated from a street or highway. Class II bikeways provide striped and stenciled lanes for one-way travel on a street or highway and is intended to delineate the right-of-way, creating more predictable movements from both bicyclists and motorists. Class III bikeways are shared use facilities that serve to either provide continuity to other bicycle facilities or designate preferred routes through high-demand corridors. Class IV bikeways are intended for the exclusive use of bicycles and features a separation between the bikeway and the through vehicular traffic.

Currently, Class II bike lanes exist along Chino Hills Parkway in the westbound direction west of Ramona Avenue and eastbound direction east of Ramona Avenue within this segment. There are no proposed bikeways within the study area. However, it should be noted that north of the project site, along Chino Creek, a multi-purpose trail is being proposed, which includes a Class I bikeway. Figure 3-4 illustrates the existing and proposed bicycle network within City of Chino and Figure 3-5 illustrates the Bicycle Master Plan for City of Chino Hills.

3.2.2 Pedestrian Facilities

The safety and convenience of pedestrians are important quality-of-life factors. Improved pedestrian access promotes safety, continuity, connectivity, and accessibility. Citywide, sidewalks should generally be provided on both sides of the streets to link commercial, residential, open space, and other land uses.

Paved sidewalks exist on both sides of Ramona Avenue, Chino Hills Parkway, and Corporate Center Avenue within the study area, thereby allowing pedestrians to access the project from the surrounding neighborhood. Additionally, the proposed project will be constructing paved sidewalks along the project site frontage along Corporate Center Avenue. Figure 3-6 illustrates the existing pedestrian network within Chino.

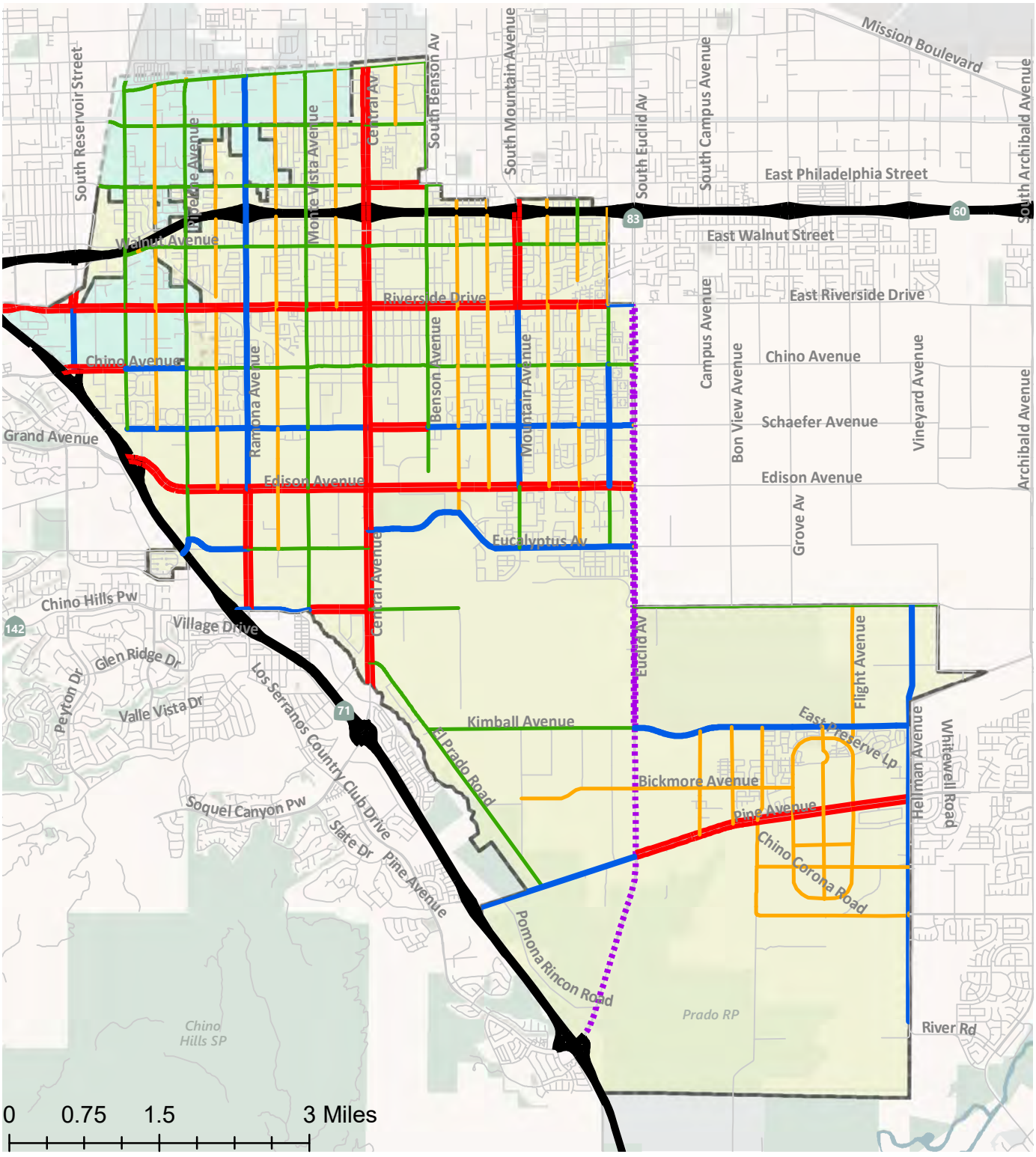
3.2.3 Transit Network

According to the Bicycle and Pedestrian Master Plan, transit expands mobility options to citizens who may not be able to afford or physically operate other means of travel, while some choose not to drive. The Master Plan encourages investments in and improvements of local transit service, which is important in any community, since the most frequent users include some of the most vulnerable residents and workers, such as older adults, persons with disabilities, and students. OmniTrans provides fixed route services within Chino. Figure 3-7 illustrates the bus routes within Chino.

The closest bus stop is approximately 1.5 miles from the project site, at the intersection of Pipeline Avenue/Edison Avenue. This bus stop is served by Omnitrans Route 88, which connects key locations such as the Chino Civic Center, Chino Transit Center and Montclair Transit Center. Route 88 operates every 60 minutes, Monday through Sunday. Figure 3-5 illustrates the bus routes within Chino.

3.3 LIST OF CHAPTER 3.0 FIGURES

- Figure 3-1: City of Chino Roadway Classification
- Figure 3-2: City of Chino Hills Roadway Classification
- Figure 3-3: Existing With Project Study Intersection Geometrics and Traffic Control
- Figure 3-4: City of Chino Proposed Bicycle Facilities
- Figure 3-5: City of Chino Hills Bicycle Master Plan
- Figure 3-6: City of Chino Existing and Proposed Trails
- Figure 3-7: City of Chino Existing Transit Facilities



LSA

FIGURE 3-1

LEGEND

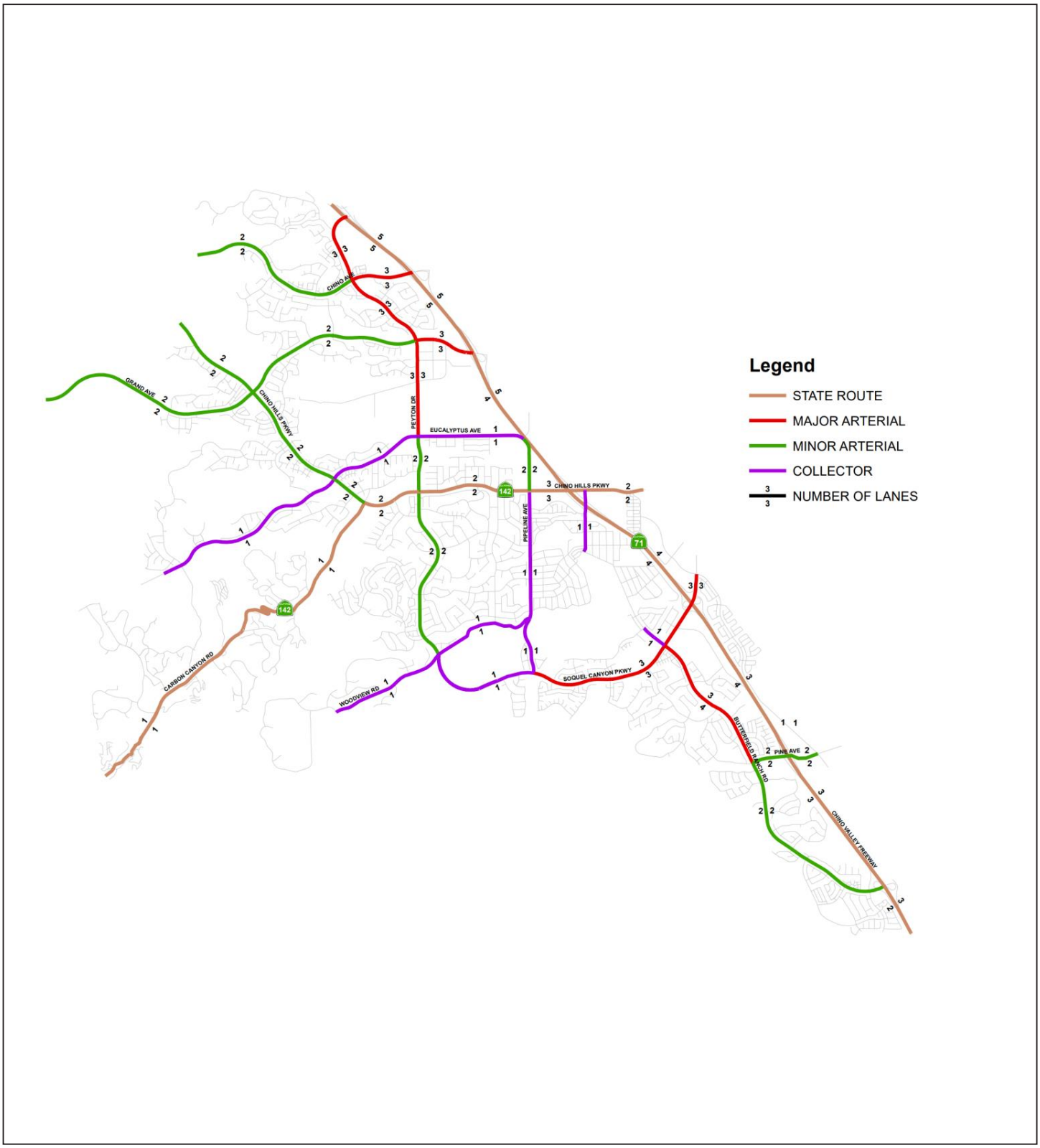
- Major Arterial
- Primary Arterial
- Secondary Arterial
- Collector
- Freeways
- Highway
- City Boundary
- SOI

Chino Corporate Center Residential Project
Traffic Impact Analysis

City of Chino Roadway Classification

SOURCE:City of Chino General Plan Update Technical Background Report, September 2023.

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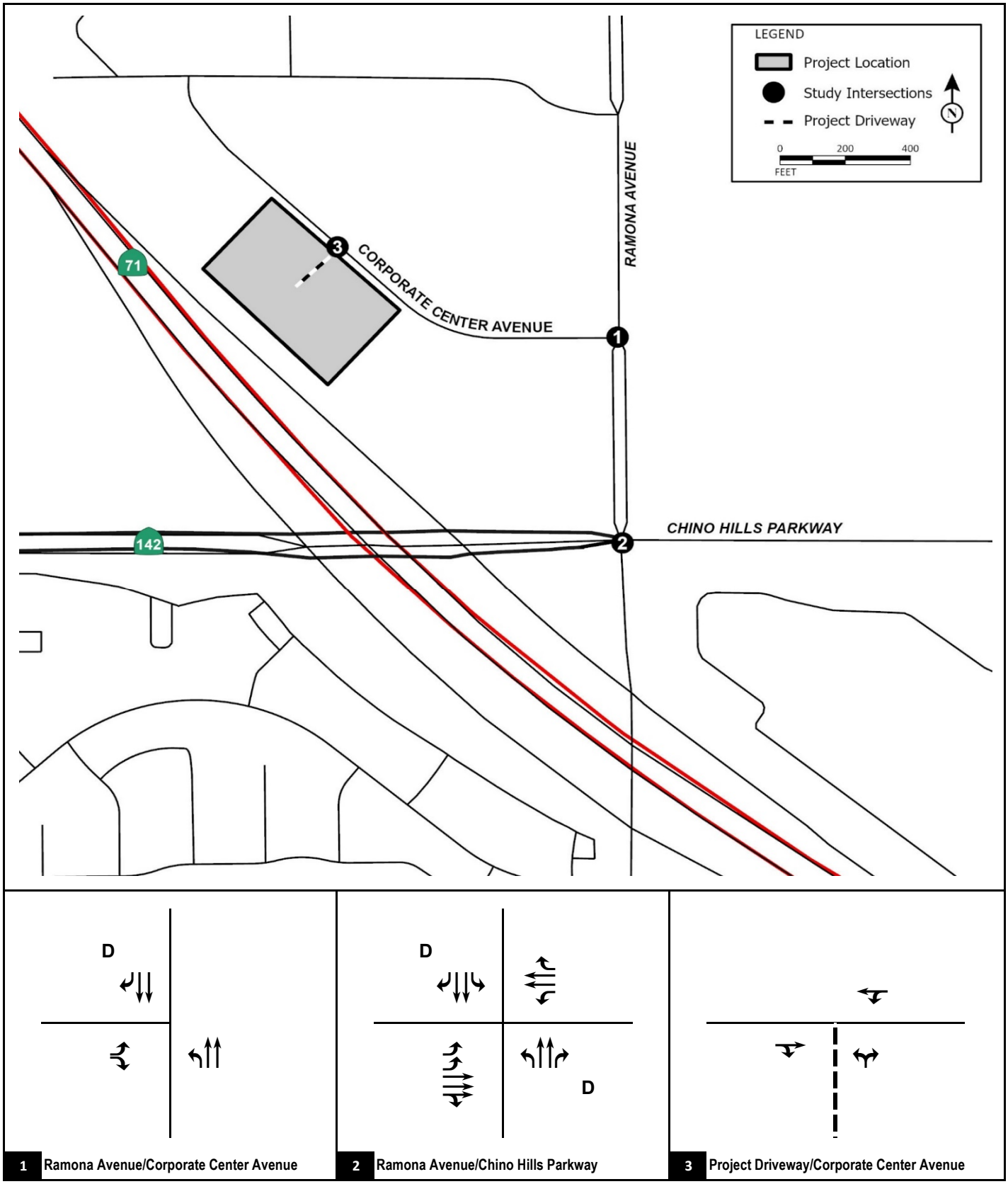
FIGURE 3-2

Chino Corporate Center Residential Project
Traffic Impact Analysis

City of Chino Hills Roadway Classification

SOURCE:City of Chino Hills Draft General Plan Circulation Element, January, 2025.

P:\2024\20242048 Chino Corporate Center Residential\Traffic\graphics\Existing Conditions\Roadways Chino Hills.ai (03/11/2025)



1 Ramona Avenue/Corporate Center Avenue

2 Ramona Avenue/Chino Hills Parkway

3 Project Driveway/Corporate Center Avenue

FIGURE 3-3

LSA

Legend

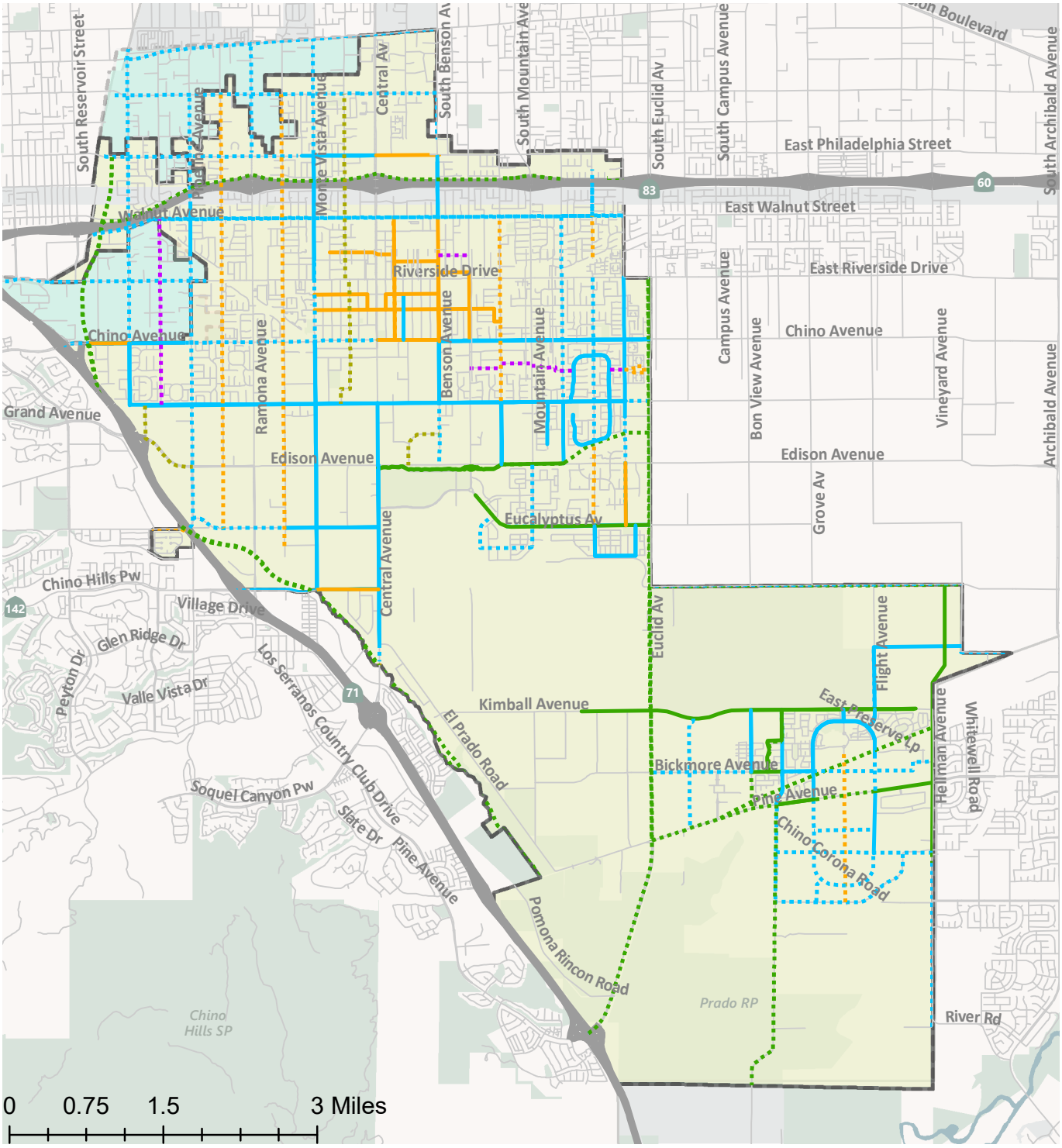
Stop Sign

Project Driveway

D De-facto Right Turn

Chino Corporate Center Residential Project
Traffic Impact Analysis

Existing Plus Project Study Intersection Geometrics and Traffic Control



LSA

LEGEND

Existing Bikeways
- Class I
- Class II
- Class III

Proposed Bikeways

Type
- Class I
- Class II
- Class III
- Cycle Track
- Bicycle Boulevard

- Freeways
- City Boundary
- SOI

N

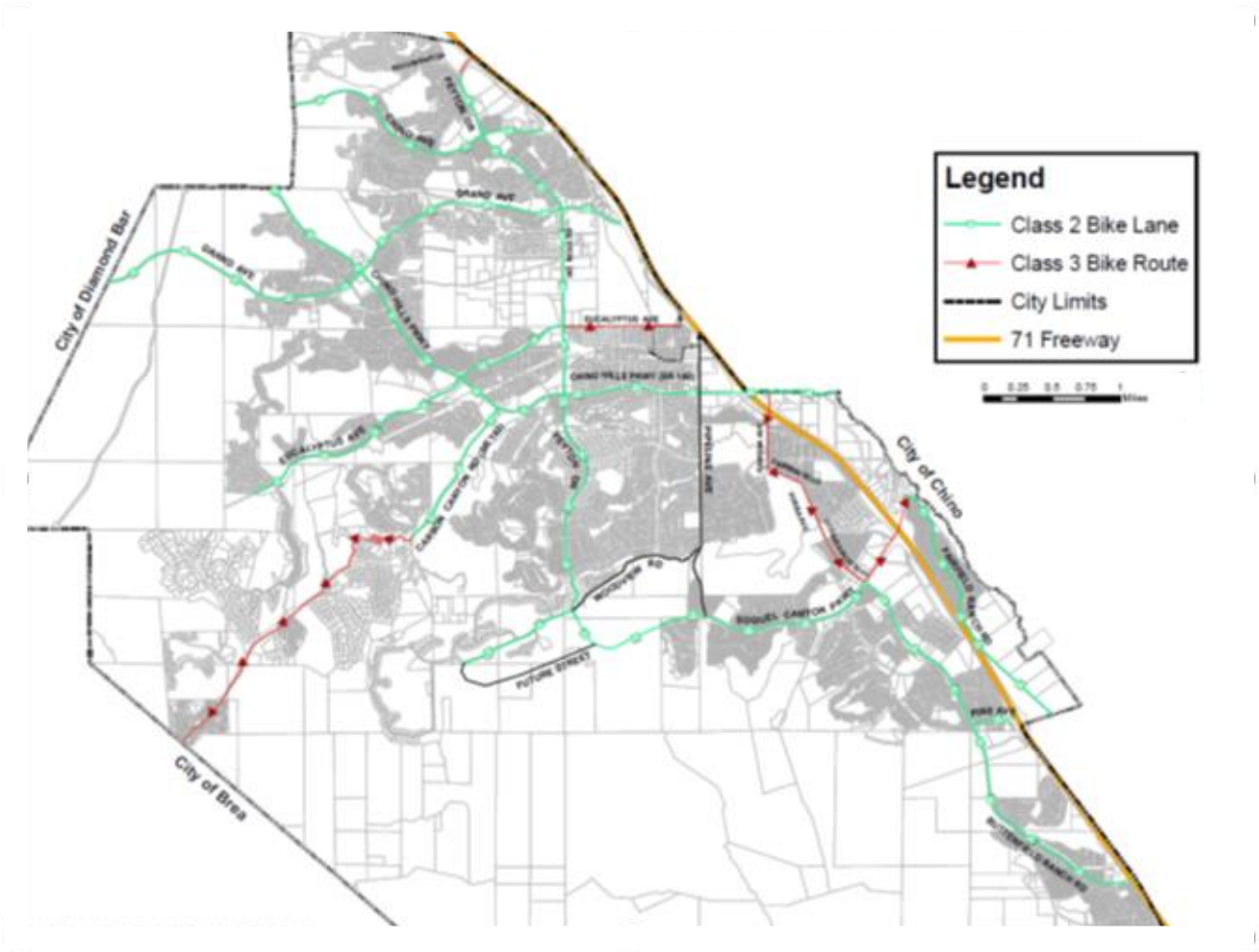
FIGURE 3-4

Chino Corporate Center Residential Project
Traffic Impact Analysis

City of Chino Proposed Bicycle Facilities

SOURCE:City of Chino General Plan Update Technical Background Report, September 2023.

P:\2024\20242048 Chino Corporate Center Residential\Traffic\graphics\Existing Conditions\Bikeways.ai (01/15/2025)



LSA

FIGURE 3-5

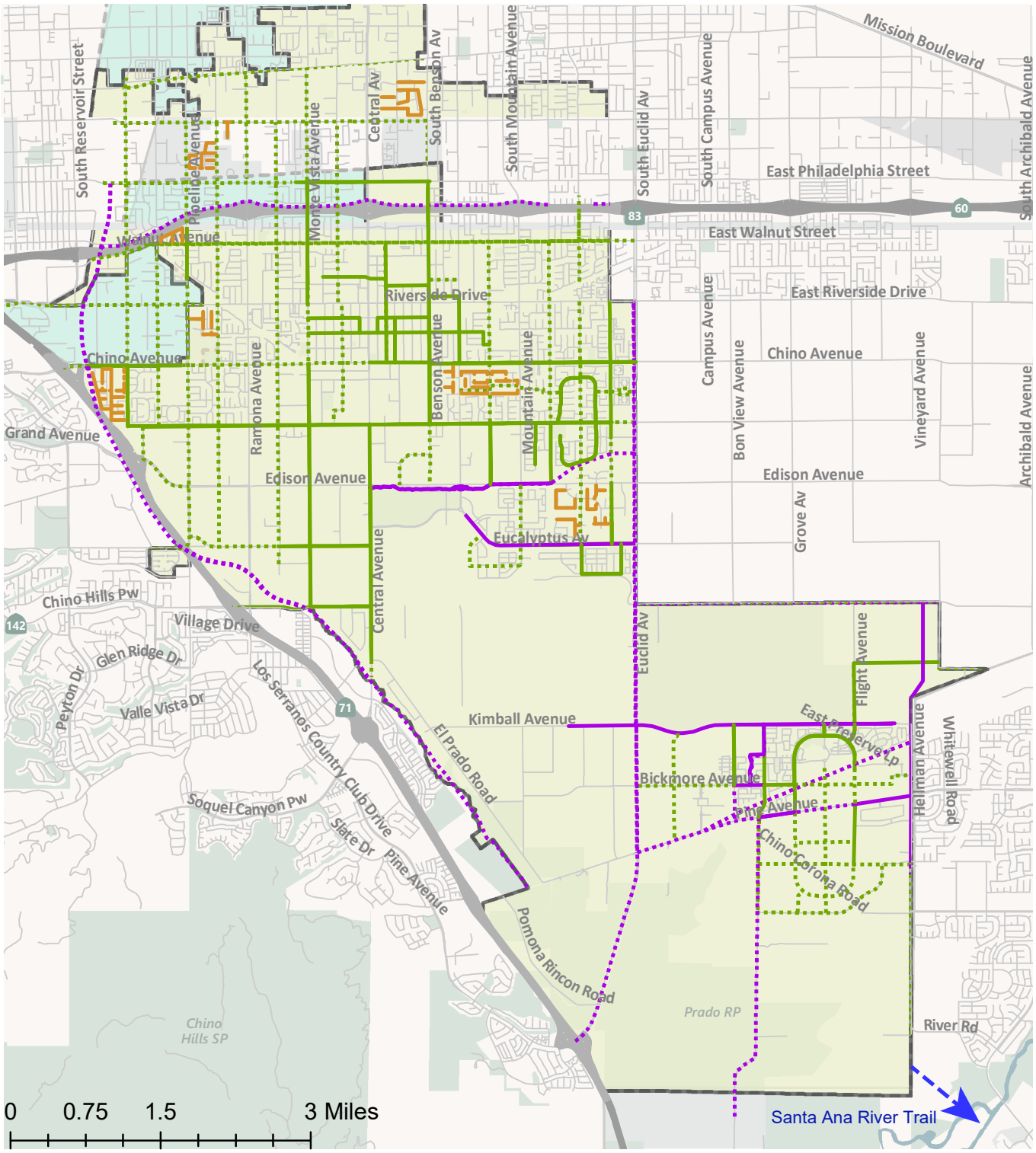
N

Chino Corporate Center Residential Project
Traffic Impact Analysis

City of Chino Hills Bicycle Master Plan

SOURCE:City of Chino Hills Draft General Plan Circulation Element, January, 2025.

P:\2024\20242048 Chino Corporate Center Residential\Traffic\graphics\Existing Conditions\Bikeways Chino Hills.ai (03/11/2025)



LSA

FIGURE 3-6

LEGEND

Existing Trails
- Multi-use Trails (Class I Bike Facilities)
- Bike Trails (Other Bike Facilities)
- Equestrain Trails

Proposed Trails
- Multi-use Trails (Class I Bike Facilities)
- Bike Trails (Other Bike Facilities)
- Regional Trails

- Freeways
- City Boundary
- SOI

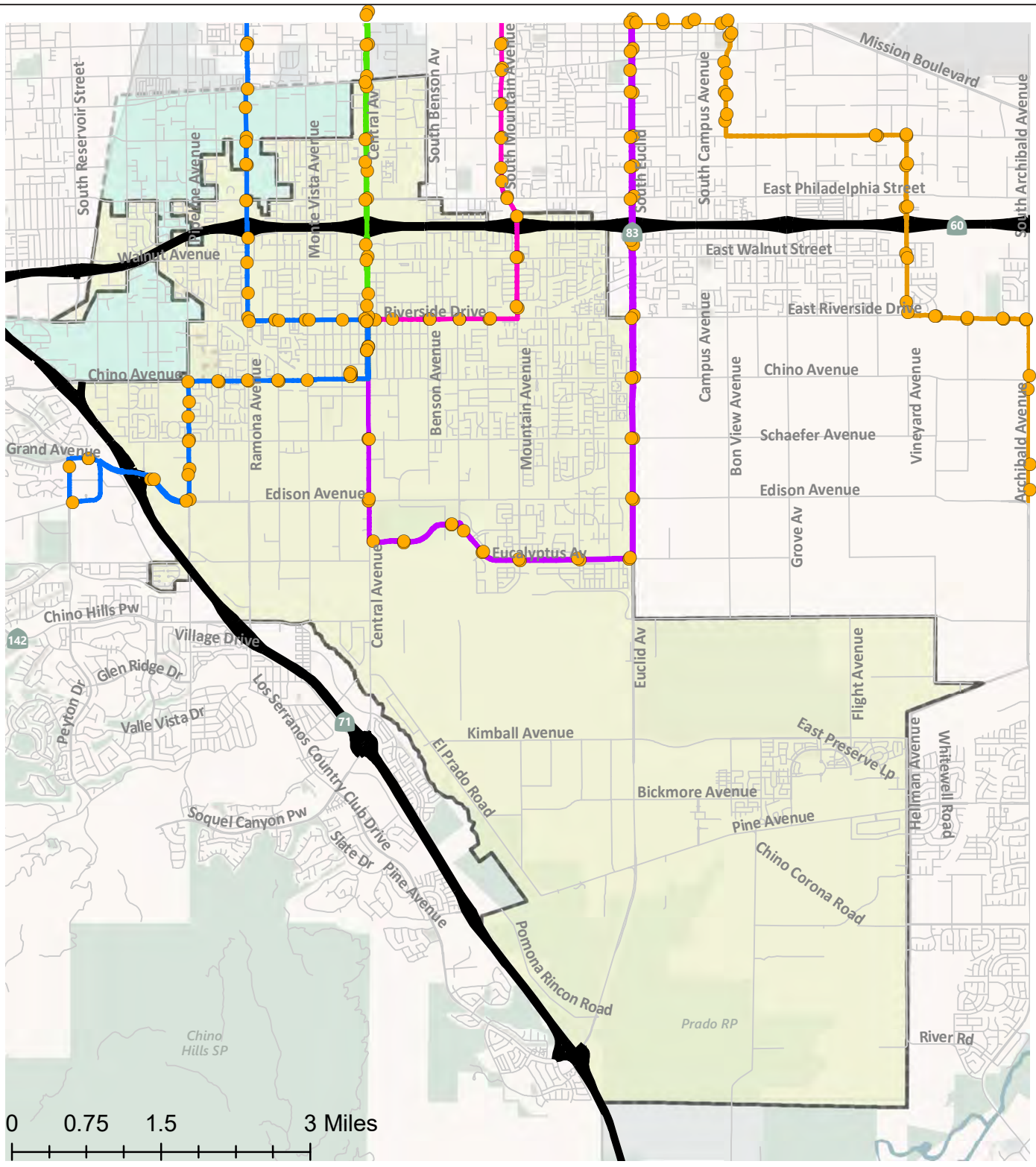
N

Chino Corporate Center Residential Project
Traffic Impact Analysis

City of Chino Existing and Proposed Trails

SOURCE:City of Chino General Plan Update Technical Background Report, September 2023.

P:\2024\20242048 Chino Corporate Center Residential\Traffic\graphics\Existing Conditions\Trails.ai (01/15/2025)



LSA

LEGEND

Omnitrans_Lines
Route 83
Route 84
Route 85
Route 87
Route 88
Omnitrans_Stops
Freeways
City Boundary
SOI

N

FIGURE 3-7

Chino Corporate Center Residential Project
Traffic Impact Analysis

City of Chino Existing Transit Facilities

SOURCE:City of Chino General Plan Update Technical Background Report, September 2023.

P:\2024\20242048 Chino Corporate Center Residential\Traffic\graphics\Existing Conditions\Transit.ai (01/15/2025)

4.0 TRAFFIC VOLUMES WITHOUT PROJECT SCENARIOS

4.1 EXISTING TRAFFIC VOLUMES

Traffic volumes for existing conditions are based on existing traffic count data collected by Counts Unlimited at the study intersections in October 2024. Traffic counts were collected for the a.m. and p.m. peak hours at study intersections. Vehicle classification counts were collected at all study area intersections. Truck percentages for every approach at these intersections were obtained from the classification counts. Detailed count sheets and signal timing sheets are included in Appendix B.

Figure 4-1 illustrates the existing peak-hour traffic volumes at study intersections. Detailed volume development worksheets are included in Appendix C.

4.2 OPENING YEAR WITHOUT PROJECT TRAFFIC VOLUMES

The project opening year has been considered as 2026. Traffic volumes for Opening Year Without Project conditions were developed by applying a 2.0 percent per annum to existing traffic volumes based on the approved scoping letter and adding trips from cumulative projects in the area. It should be noted that the observed growth rate within the study area based on San Bernardino Transportation Analysis Model (SBTAM) is less than the 2 percent per annum background growth. As such, applying a 2% per annum background growth per the approved scoping letter is conservative estimate.

Information concerning cumulative projects in the vicinity of the proposed project was obtained from City staff and adjacent jurisdiction of City of Chino Hills. The cumulative projects included in the study are based on the proximity and their potential influence on the study area intersections. This ensures that all relevant developments that may impact the traffic conditions within the study area are considered in the analysis. Figure 4-2 illustrates the cumulative project's locations. Trip generations for cumulative projects were either obtained from the respective traffic studies prepared for the projects or developed using trip generation rates from the Institute of Transportation Engineers (ITE) *Trip Generation Manual* (11th Edition). Table 4.A lists the cumulative projects, and their corresponding trip generation considered for this analysis. As shown in Table 4.A, the cumulative projects are expected to generate 1,174 net a.m. peak-hour trips, 1,021 net p.m. peak-hour trips, and 9,671 net daily trips. Cumulative project trips were assigned to the roadway network based on either the distributions provided in the respective traffic studies for these projects or their locations in relation to surrounding land uses and regional arterials. Figure 4-3 illustrates the peak-hour cumulative project trip assignment at study area intersections. Opening Year without Project peak-hour traffic volumes at study intersections are illustrated on Figure 4-4.

Detailed volume development worksheets are included in Appendix C.

4.3 HORIZON YEAR WITHOUT PROJECT TRAFFIC VOLUMES

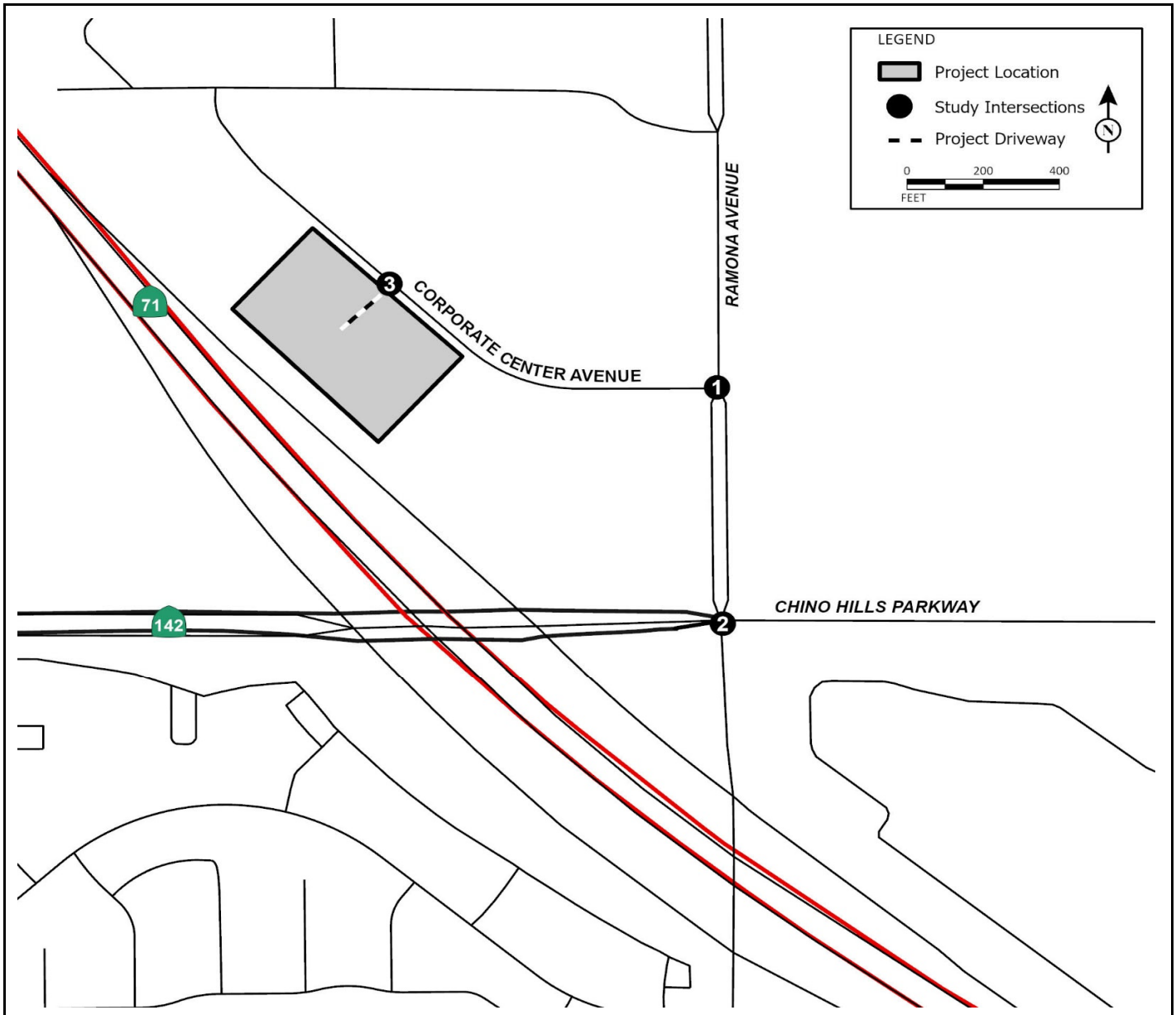
Traffic volumes for horizon year without project conditions were developed by using forecast traffic volumes obtained from the SBTAM. The methodology to develop horizon year without project volumes at study area intersections is consistent with the San Bernardino County Transportation

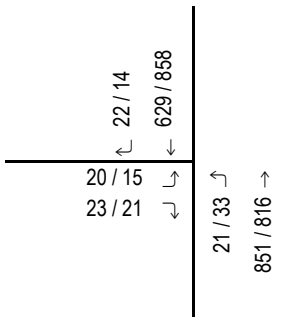
Authority (SBCTA) procedures for post-processing of modeled traffic volumes. Horizon Year without Project peak-hour traffic volumes at study intersections are illustrated on Figure 4-5.

Detailed volume development worksheets are included in Appendix C.

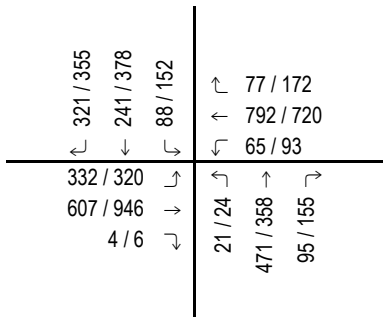
4.4 LIST OF CHAPTER 4.0 FIGURES AND TABLES

- Figure 4-1: Existing Peak Hour Traffic Volumes
- Figure 4-2: Cumulative Projects Locations
- Figure 4-3: Cumulative Projects Trip Assignment
- Figure 4-4: Opening Year without Project Peak Hour Traffic Volumes
- Figure 4-5: Horizon Year without Project Peak Hour Traffic Volumes
- Table 4.A: Cumulative Projects Trip Generation

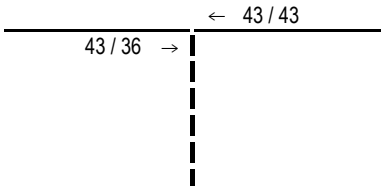




1 **Ramona Avenue/Corporate Center Avenue**



2 **Ramona Avenue/Chino Hills Parkway**



3 **Project Driveway/Corporate Center Avenue**

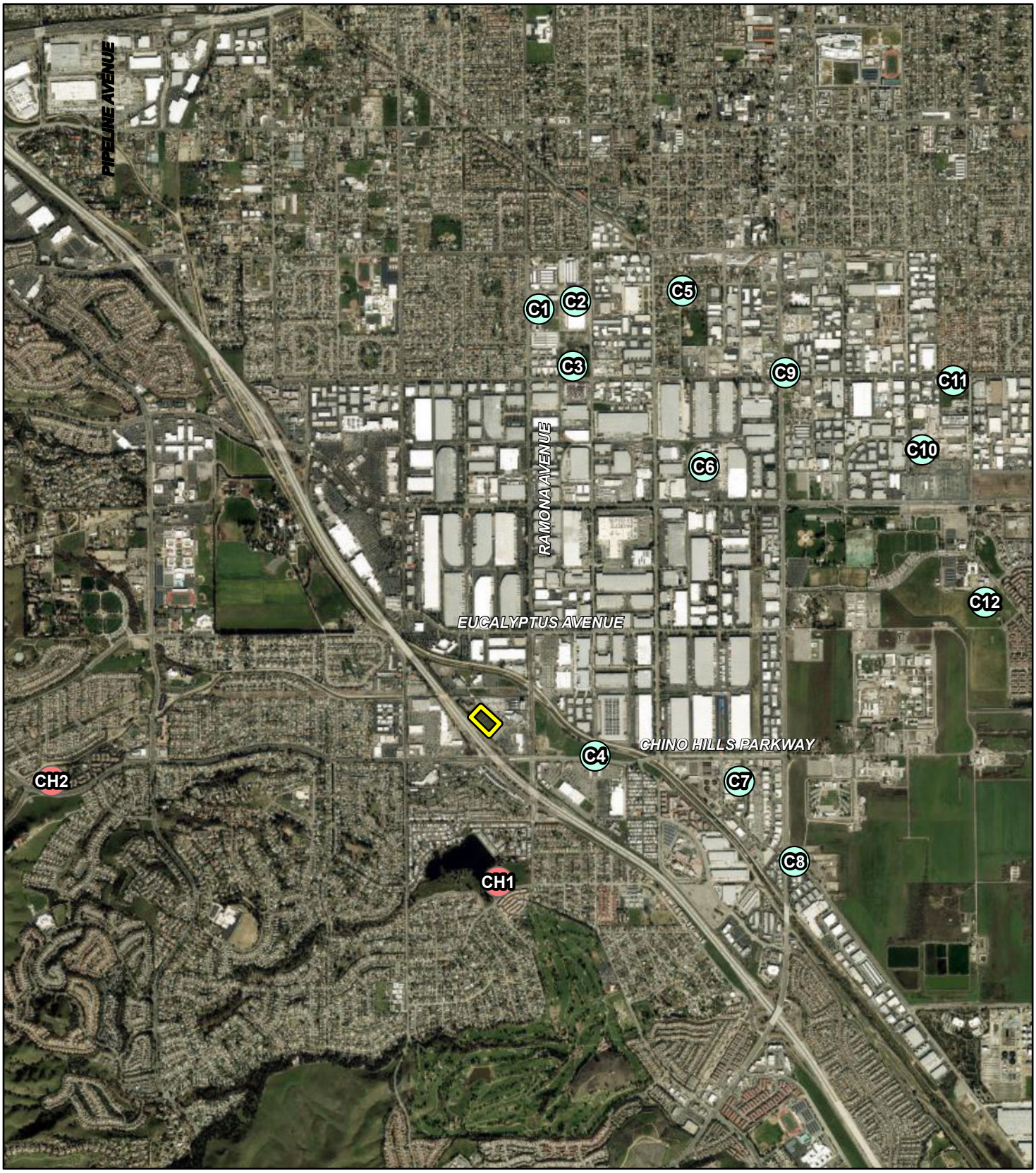
FIGURE 4-1

LSA

XXX / YYY
AM / PM Peak Hour Trips

Chino Corporate Center Residential Project
Traffic Impact Analysis

Existing Peak Hour Traffic Volumes



LSA

LEGEND

Project Location

Cumulative Projects

City of Chino

City of Chino Hills

0 1416 2832

FEET

SOURCE: Google Earth, 2023.

FIGURE 4-2

Chino Corporate Center Residential Project
Traffic Impact Analysis
Cumulative Project Locations

P:\2024\20242048 Chino Corporate Center Residential\Traffic\graphics\GIS\Chino Corp Residential.aprx (12/2/2024)

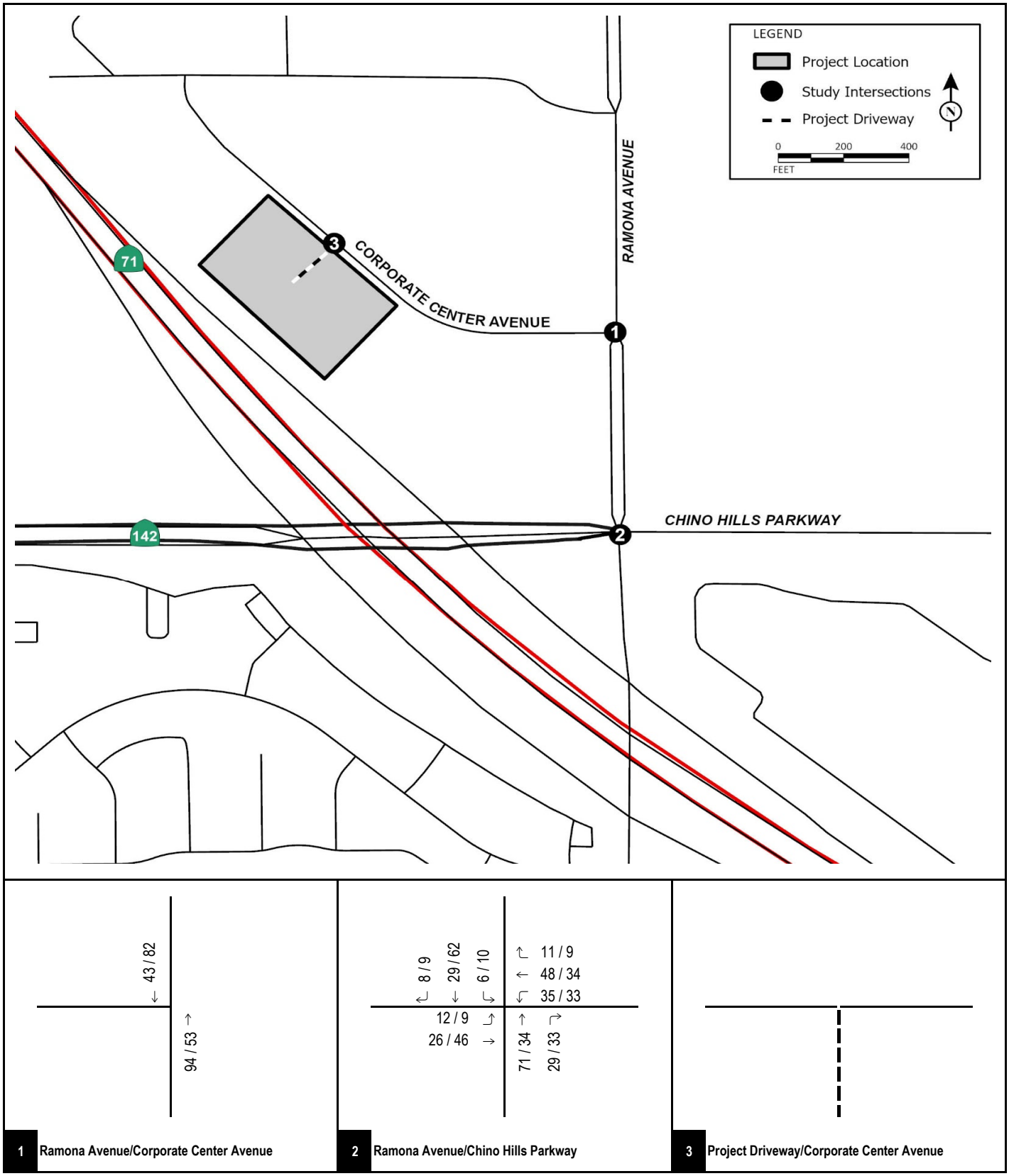


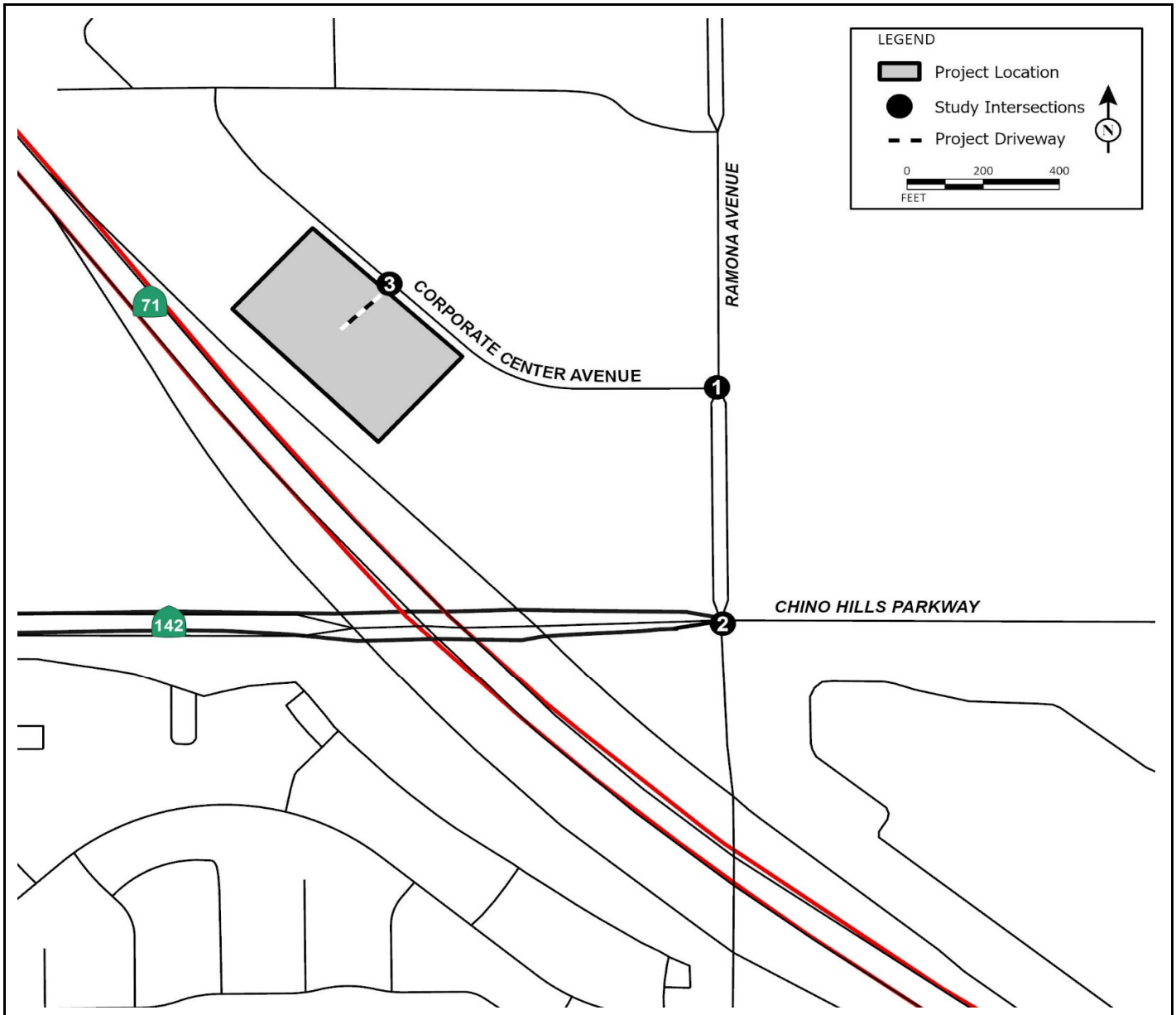
FIGURE 4-3

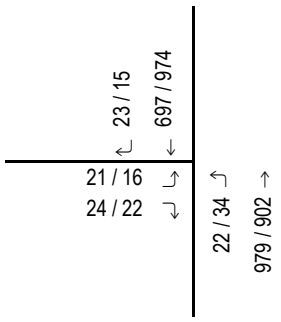
LSA

XX / YY
AM / PM Peak Hour Trips

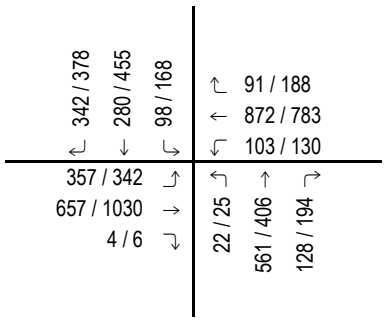
Chino Corporate Center Residential Project
Traffic Impact Analysis

Cumulative Projects Trip Assignment

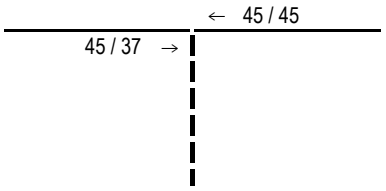




1 Ramona Avenue/Corporate Center Avenue



2 Ramona Avenue/Chino Hills Parkway



3 Project Driveway/Corporate Center Avenue

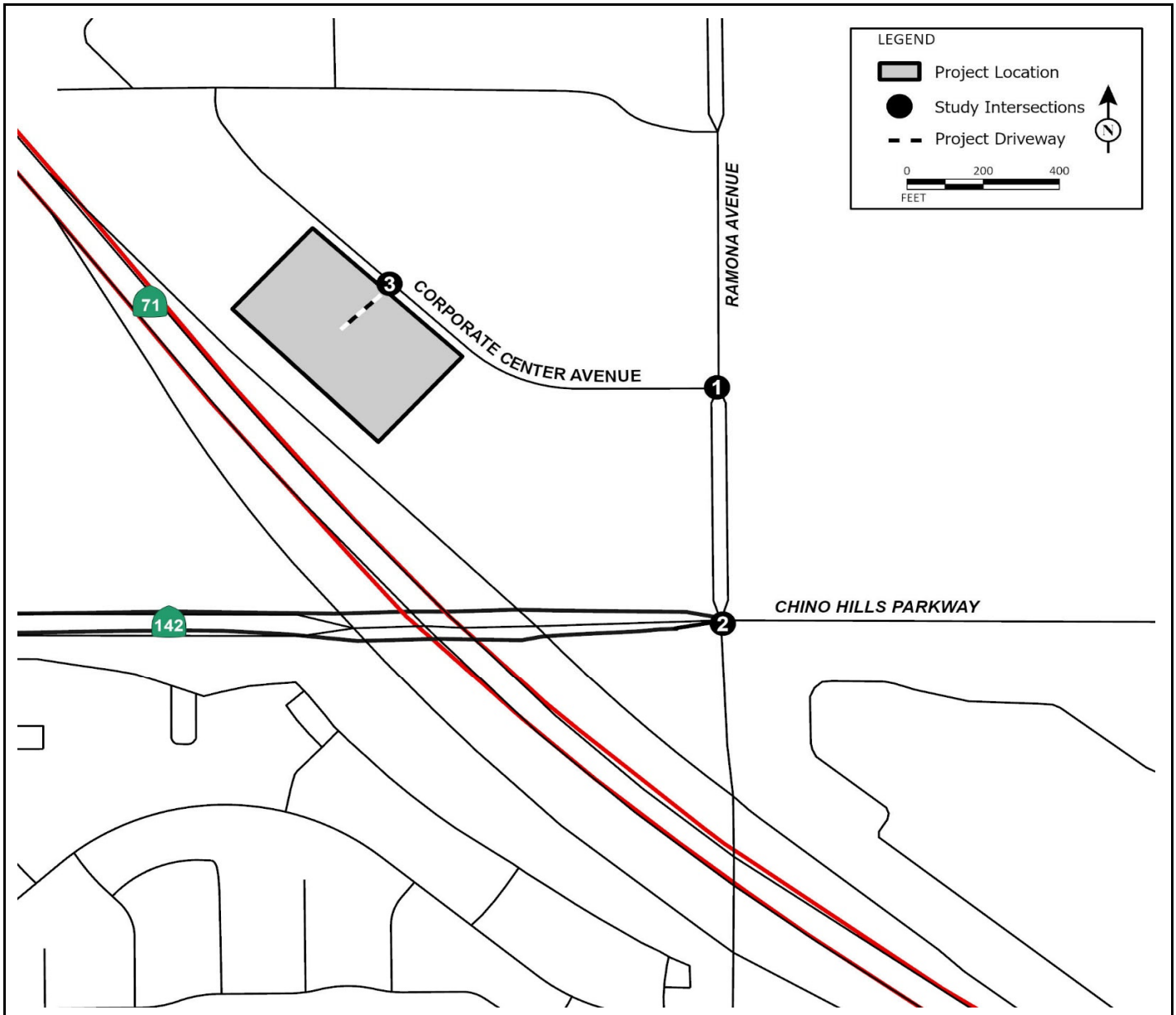
FIGURE 4-4

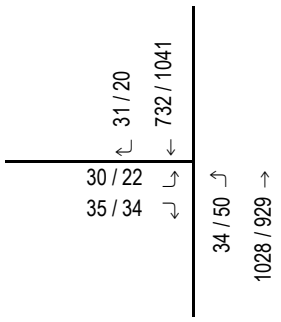
LSA

XXXX / YYYY
AM / PM Peak Hour Trips

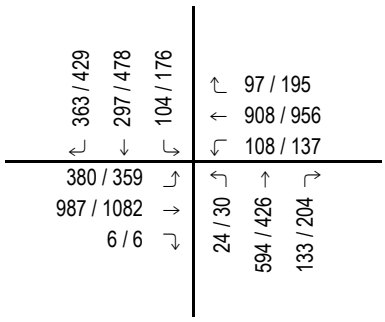
Chino Corporate Center Residential Project
Traffic Impact Analysis

Opening Year without Project Peak Hour Traffic Volumes

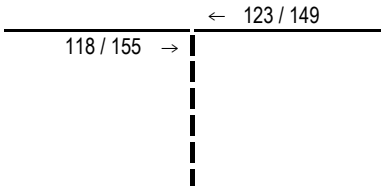




1 Ramona Avenue/Corporate Center Avenue



2 Ramona Avenue/Chino Hills Parkway



3 Project Driveway/Corporate Center Avenue

FIGURE 4-5

LSA

XXXX / YYYY
AM / PM Peak Hour Trips

Chino Corporate Center Residential Project
Traffic Impact Analysis

Horizon Year without Project Peak Hour Traffic Volumes

LSA

Table 4.A: Cumulative Projects Trip Generation

Project No.	Land Use/Builder/Applicant/Project Name	Units		A.M. Peak Hour In	A.M. Peak Hour Out	A.M. Peak Hour Total	P.M. Peak Hour In	P.M. Peak Hour Out	P.M. Peak Hour Total	Daily
C1 .	**PL20-0027**									
	Southeast corner of Ramona Avenue/Danito Court									
	School District Office	59.755	TSF							
	Trips/Unit[1]			1.79	0.57	2.36	0.35	1.69	2.04	14.37
	Trip Generation			107	34	141	21	101	122	859
C2 .	**PL20-0029**									
	13404 Yorba Avenue									
	General Light Industrial	325.300	TSF							
	Trips/Unit (Cars)			0.512	0.070	0.582	0.072	0.439	0.511	3.828
	Trips/Unit (2-Axle Trucks)			0.031	0.021	0.052	0.023	0.023	0.045	0.390
	Trips/Unit (3-Axle Trucks)			0.017	0.011	0.028	0.012	0.012	0.025	0.190
	Trips/Unit (4+ Axle Trucks)			0.047	0.031	0.078	0.034	0.034	0.069	0.463
	Trips/Unit (Total)[2,3]			0.65	0.089	0.740	0.091	0.559	0.650	4.870
	Trip Generation (Cars)			167	22	189	23	143	166	1,245
	Trip Generation (2-Axle Trucks)			10	7	17	7	8	15	127
	Trip Generation (3-Axle Trucks)			6	3	9	4	4	8	62
	Trip Generation (4+ Axle Trucks)			15	10	25	11	11	22	151
	Truck Trip Generation			31	20	51	22	23	45	340
	Trip Generation (Total)			198	42	240	45	166	211	1,585
	Trip Generation (Cars)			167	22	189	23	143	166	1,245
	PCE Trip Generation (2-Axle Trucks)			15	11	26	11	12	23	191
	PCE Trip Generation (3-Axle Trucks)			12	6	18	8	8	16	124
	PCE Trip Generation (4+ Axle Trucks)			45	30	75	33	33	66	453
	Total Truck Trip Generation			31	20	51	22	23	45	340
	Auto Trips			167	22	189	23	143	166	1,245
	Truck PCE Trips			72	47	119	52	53	105	768
	Total PCE Trip Generation			239	69	308	75	196	271	2,013
C3 .	**Chino Lovett Industrial[4]**									
	13610 Yorba Avenue									
	General Light Industrial	44.826	TSF							
	Trip Generation (Cars)			29	4	33	4	25	29	208
	PCE Trip Generation (2-Axle Trucks)			0	0	0	0	0	0	4
	PCE Trip Generation (3-Axle Trucks)			0	0	0	0	0	0	6
	PCE Trip Generation (4+ Axle Trucks)			1	0	1	0	0	0	22
	Warehousing	254.013	TSF							
	Trip Generation (Cars)			30	8	38	9	29	38	282
	PCE Trip Generation (2-Axle Trucks)			1	1	2	1	1	2	38
	PCE Trip Generation (3-Axle Trucks)			1	1	2	2	2	4	64
	PCE Trip Generation (4+ Axle Trucks)			5	4	9	8	7	15	286
	Total Auto Trips			59	12	71	13	54	67	490
	Total Truck PCE Trips			8	6	14	11	10	21	420
	Net Total PCE Trip Generation			67	18	85	24	64	88	910
C4 .	**Chino Creek Apartments[5]**									
	4700 Chino Hills Parkway									
	Multifamily Housing (Mid-Rise) Not Close to Rail Transit	298	DU							
	Trip Generation			25	85	110	71	45	116	1,353
C5 .	**PL24-0087**									
	4991 G Street									
	Single-Family Detached Housing	3.000	DU							
	Trips/Unit[6]			0.18	0.52	0.70	0.59	0.35	0.94	9.43
	Trip Generation			1	2	3	2	1	3	28

LSA

Table 4.A: Cumulative Projects Trip Generation

Project No.	Land Use/Builder/Applicant/Project Name	Units	A.M. Peak Hour In	A.M. Peak Hour Out	A.M. Peak Hour Total	P.M. Peak Hour In	P.M. Peak Hour Out	P.M. Peak Hour Total	Daily
C6 .	**PL24-0008**								
	5088 Edison Avenue								
	High-Cube Fullfillment Center Warehouse - Non-Sort	394.230 TSF							
	Trips/Unit (Cars)		0.084	0.020	0.104	0.043	0.067	0.110	1.249
	Trips/Unit (2-Axle Trucks)		0.005	0.005	0.010	0.005	0.006	0.011	0.123
	Trips/Unit (3-Axle Trucks)		0.004	0.004	0.008	0.004	0.005	0.009	0.100
	Trips/Unit (4+ Axle Trucks)		0.014	0.014	0.028	0.014	0.016	0.030	0.338
	Trips/Unit (Total)[7,8]		0.12	0.028	0.150	0.062	0.098	0.160	1.810
	Trip Generation (Cars)		33	8	41	17	27	44	492
	Trip Generation (2-Axle Trucks)		2	2	4	2	2	4	49
	Trip Generation (3-Axle Trucks)		2	1	3	2	1	3	39
	Trip Generation (4+ Axle Trucks)		6	5	11	5	7	12	133
	Truck Trip Generation		10	8	18	9	10	19	221
	Trip Generation (Total)		43	16	59	26	37	63	713
	Trip Generation (Cars)		33	8	41	17	27	44	492
	PCE Trip Generation (2-Axle Trucks)		3	3	6	3	3	6	74
	PCE Trip Generation (3-Axle Trucks)		4	2	6	4	2	6	78
	PCE Trip Generation (4+ Axle Trucks)		18	15	33	15	21	36	399
	Total Truck Trip Generation		10	8	18	9	10	19	221
	Auto Trips		33	8	41	17	27	44	492
	Truck PCE Trips		25	20	45	22	26	48	551
	Total PCE Trip Generation		58	28	86	39	53	92	1,043
C7 .	**PL19-0003**								
	15022 La Palma								
	General Light Industrial	15.460 TSF							
	Trips/Unit (Cars)		0.512	0.070	0.582	0.072	0.439	0.511	3.828
	Trips/Unit (2-Axle Trucks)		0.031	0.021	0.052	0.023	0.023	0.045	0.390
	Trips/Unit (3-Axle Trucks)		0.017	0.011	0.028	0.012	0.012	0.025	0.190
	Trips/Unit (4+ Axle Trucks)		0.047	0.031	0.078	0.034	0.034	0.069	0.463
	Trips/Unit (Total)[2,3]		0.65	0.089	0.740	0.091	0.559	0.650	4.870
	Trip Generation (Cars)		8	1	9	1	7	8	59
	Trip Generation (2-Axle Trucks)		0	1	1	0	1	1	6
	Trip Generation (3-Axle Trucks)		0	0	0	0	0	0	3
	Trip Generation (4+ Axle Trucks)		1	0	1	1	0	1	7
	Truck Trip Generation		1	1	2	1	1	2	16
	Trip Generation (Total)		9	2	11	2	8	10	75
	Trip Generation (Cars)		8	1	9	1	7	8	59
	PCE Trip Generation (2-Axle Trucks)		0	2	2	0	2	2	9
	PCE Trip Generation (3-Axle Trucks)		0	0	0	0	0	0	6
	PCE Trip Generation (4+ Axle Trucks)		3	0	3	3	0	3	21
	Total Truck Trip Generation		1	1	2	1	1	2	16
	Auto Trips		8	1	9	1	7	8	59
	Truck PCE Trips		3	2	5	3	2	5	36
	Total PCE Trip Generation		11	3	14	4	9	13	95

LSA

Table 4.A: Cumulative Projects Trip Generation

Project No.	Land Use/Builder/Applicant/Project Name	Units		A.M. Peak Hour In	A.M. Peak Hour Out	A.M. Peak Hour Total	P.M. Peak Hour In	P.M. Peak Hour Out	P.M. Peak Hour Total	Daily
C8 .	**PL18-0047, PL18-0048**									
	Northeast Corner of Central Avenue and El Prado Road									
	Convenience Store/Gas Station - VFP (2-8)	4.120	TSF							
	Trips/Unit[9]			20.30	20.29	40.59	24.24	24.24	48.48	624.20
	Trip Generation			84	84	168	100	100	200	2,572
	Pass-by Trips[10]			(50)	(50)	(101)	(56)	(56)	(112)	(1,492)
	Net New Trips			34	34	68	44	44	88	1,080
	Automated Car Wash	2	TSF							
	Trips/Unit[11]			5.66	3.32	8.98	7.10	7.10	14.20	163.09
	Trip Generation			9	5	14	11	11	22	251
	Fast Casual Restaurant	1.800	TSF							
	Trips/Unit[12]			0.72	0.71	1.43	6.90	5.65	12.55	97.14
	Trip Generation			1	1	2	12	10	22	175
	Pass-by Trips[13]			0	0	0	(5)	(4)	(9)	(75)
	Net New Trips			1	1	2	7	6	13	100
	Total Trip Generation			44	40	84	62	61	123	1,431
C9 .	**PL24-0112**									
	13691 Central Avenue									
	Coffee/Donut Shop with Drive-Through Window	2.262	TSF							
	Trips/Unit[14]			43.80	42.08	85.88	19.50	19.49	38.99	533.57
	Trip Generation			99	95	194	44	44	88	1,207
	Pass-by Trips[15]			(50)	(48)	(97)	(24)	(24)	(48)	(634)
	Net New Trips			49	47	96	20	20	40	573
C10 .	**PL23-0091**									
	13925 Benson Avenue									
	Warehousing	139.500	TSF							
	Trips/Unit (Cars)			0.090	0.027	0.117	0.035	0.089	0.124	1.180
	Trips/Unit (2-Axle Trucks)			0.006	0.006	0.012	0.006	0.006	0.012	0.116
	Trips/Unit (3-Axle Trucks)			0.005	0.004	0.009	0.005	0.005	0.010	0.094
	Trips/Unit (4+ Axle Trucks)			0.017	0.015	0.032	0.018	0.016	0.034	0.320
	Trips/Unit (Total)[16,8]			0.13	0.039	0.170	0.050	0.130	0.180	1.710
	Trip Generation (Cars)			13	3	16	5	12	17	165
	Trip Generation (2-Axle Trucks)			1	1	2	1	1	2	16
	Trip Generation (3-Axle Trucks)			1	0	1	1	0	1	13
	Trip Generation (4+ Axle Trucks)			2	2	4	2	3	5	45
	Truck Trip Generation			4	3	7	4	4	8	74
	Trip Generation (Total)			17	6	23	9	16	25	239
	Trip Generation (Cars)			13	3	16	5	12	17	165
	PCE Trip Generation (2-Axle Trucks)			2	2	4	2	2	4	24
	PCE Trip Generation (3-Axle Trucks)			2	0	2	2	0	2	26
	PCE Trip Generation (4+ Axle Trucks)			6	6	12	6	9	15	135
	Total Truck Trip Generation			4	3	7	4	4	8	74
	Auto Trips			13	3	16	5	12	17	165
	Truck PCE Trips			10	8	18	10	11	21	185
	Total PCE Trip Generation			23	11	34	15	23	38	350

LSA

Table 4.A: Cumulative Projects Trip Generation

Project No.	Land Use/Builder/Applicant/Project Name	Units	A.M. Peak Hour In	A.M. Peak Hour Out	A.M. Peak Hour Total	P.M. Peak Hour In	P.M. Peak Hour Out	P.M. Peak Hour Total	Daily
C11 .	**Chino Gateway Terminal Project[17]**								
	5835-5885 Schaefer Avenue								
	Project Parcel 1 -								
	Warehousing	156.445 TSF							
	Trip Generation (Cars)		14	4	18	5	14	19	185
	PCE Trip Generation (2-Axle Trucks)		2	2	4	2	2	4	27
	PCE Trip Generation (3-Axle Trucks)		2	0	2	2	2	4	30
	PCE Trip Generation (4+ Axle Trucks)		9	6	15	9	6	15	150
	Fast Casual Restaurant	1.753 TSF							
	Net New Trips		1	1	2	7	6	13	97
	Project Parcel 2 -								
	Fast Casual Restaurant	6.253 TSF							
	Net New Trips		5	4	9	25	20	44	346
	Small Office Building	2.464 TSF							
	Trip Generation		3	1	4	2	4	6	35
	Total Auto Trips		23	10	33	39	44	82	663
	Truck PCE Trips		13	8	21	13	10	23	207
	Total PCE Trip Generation		36	18	54	52	54	106	870
C12 .	**The Campus at College Park**								
	5985 Eucalyptus Avenue								
	Church	27 TSF							
	Trips/Unit[18]		0.20	0.12	0.32	0.22	0.27	0.49	7.60
	Trip Generation		5	3	8	6	7	13	205
	General Office Building	16.969 TSF							
	Trips/Unit[19]		1.34	0.18	1.52	0.24	1.20	1.44	10.84
	Trip Generation		23	3	26	4	20	24	184
	Strip Retail Plaza (<40k)	17.785 TSF							
	Trips/Unit[20]		1.42	0.94	2.36	3.30	3.29	6.59	54.45
	Trip Generation		25	17	42	59	59	118	968
	Pass-by Trips[21]		0	0	0	(24)	(24)	(48)	(387)
	Net New Trips		25	17	42	35	35	70	581
	High-Turnover (Sit-Down) Restaurant	15.876 TSF							
	Trips/Unit[22]		5.26	4.31	9.57	5.52	3.53	9.05	107.20
	Trip Generation		84	68	152	88	56	144	1,702
	Pass-by Trips[23]		0	0	0	(38)	(24)	(62)	(732)
	Net New Trips		84	68	152	50	32	82	970
	Total Trip Generation		137	91	228	157	142	299	3,059
	Total Pass-By Trips		0	0	0	(62)	(48)	(110)	(1,119)
	Net Total Trip Generation		137	91	228	95	94	189	1,940
CH1 .	**Rancho Cielito[24]**								
	Northwest corner of Ramona Avenue and Bird Farm Road								
	Multifamily Housing (Low-Rise) Not Close to Rail Transit	166 DU							
	Net New Trips		17	59	76	59	34	93	1,215
	Multifamily Housing (Mid-Rise) Not Close to Rail Transit	188 DU							
	Net New Trips		20	66	86	66	39	105	1,376
	Total Trip Generation		37	125	162	125	73	198	2,591
CH2 .	**Buddhist Temple[25]**								
	Northeast corner of Chino Hills Parkway and Rustic Drive								
	Church	21.936 TSF							
	Trip Generation		7	5	12	6	6	12	200

LSA

Table 4.A: Cumulative Projects Trip Generation

Project No.	Land Use/Builder/Applicant/Project Name	Units	A.M. Peak Hour In	A.M. Peak Hour Out	A.M. Peak Hour Total	P.M. Peak Hour In	P.M. Peak Hour Out	P.M. Peak Hour Total	Daily
	Gross Trip Generation (PCE)		**840**	**532**	**1,372**	**611**	**799**	**1,410**	**14,110**
	Pass-By Trips		**(100)**	**(98)**	**(198)**	**(209)**	**(180)**	**(389)**	**(4,439)**
	Total Net Trip Generation (PCE)		**740**	**434**	**1,174**	**402**	**619**	**1,021**	**9,671**

Notes:

DU = Dwelling Units; RM = Rooms; TSF = Thousand Square Feet; VFP = Vehicle Fueling Positions

[1] Rates from Institute of Transportation Engineers (ITE) *Trip Generation Manual* , (11th Edition) Land Use 528 - "School District Office" , Setting/Location - 'General Urban/Suburban'.

[2] Rates from ITE *Trip Generation Manual* , (11th Edition), Land Use 110 - "General Light Industrial " , Setting/Location - 'General Urban/Suburban'.

[3] The resulting trips were converted to passenger vehicles and trucks based on the City of Fontana Truck Trip Generation Study, dated August 2003. As such, 21.4 percent of the traffic will be trucks.

[4] Trip generation taken from "Chino Lovett Industrial (PL23-0034)" traffic study by Urban Crossroads (May 2024).

[5] Trip generation taken from "Draft EIR Addendum to Eucalyptus Business Park Specific Plan" by Harris & Associates (December 2023).

[6] Rates from ITE *Trip Generation Manual* , (11th Edition), Land Use 210 - "Single-Family Detached Housing" , Setting/Location - 'General Urban/Suburban'.

[7] Rates from ITE *Trip Generation Manual* , (11th Edition), Land Use 155 - "High-Cube Fullfillment Center Warehouse - Non-Sort" , Setting/Location - 'General Urban/Suburban'.

[8] The truck mix percentages were obtained from South Coast Air Quality Management District (SCAQMD) recommendations for warehousing projects. As such, The truck mix was considered as 6.8%

[9] Rates from ITE *Trip Generation Manual* (11th Edition), Land Use 945 - "Convenience Store/Gas Station - VFP (2-8)" , Setting/Location - 'General Urban/Suburban'.

[10] Pass-by rates from the ITE *Trip Generation Manual* (11th Edition) for Land Use 945 - 'Convenience Store/Gas Station - VFP (2-8).' A pass-by rate of 60% was used for the a.m. peak hour and a pass-by

[11] Rates from ITE *Trip Generation Manual* (11th Edition), Land Use 948 - "Automated Car Wash" , Setting/Location - 'General Urban/Suburban'.

[12] Rates from ITE *Trip Generation Manual* (11th Edition), Land Use 930 - "Fast Casual Restaurant" , Setting/Location - 'General Urban/Suburban'.

[13] Pass-by rates from the ITE *Trip Generation Manual* (11th Edition) for Land Use 930 - 'Fast Casual Restaurant.' A pass-by rate of 43% was used for the p.m. peak hour. Since daily pass-by rates are not ava

[14] Rates from *ITE Trip Generation Manua* l (11th Edition), Land Use 937 - "Coffee/Donut Shop with Drive-Through Window" , Setting/Location - 'General Urban/Suburban'.

[15] Pass-by rates from the ITE *Trip Generation Manual* (11th Edition) for Land Use 937 - 'Coffee/Donut Shop with Drive-Through Window.' A pass-by rate of 50% was used for the a.m. peak hour and a

[16] Rates from ITE *Trip Generation Manual* (11th Edition), Land Use 150 - "Warehousing" , Setting/Location - 'General Urban/Suburban'.

[17] Trip generation taken from "Chino Gateway Terminal Project" traffic study by LSA Associates (January 2025).

[18] Rates from ITE *Trip Generation Manual* (11th Edition), Land Use 560 - "Church" , Setting/Location - 'General Urban/Suburban'.

[19] Rates from ITE *Trip Generation Manual* (11th Edition), Land Use 710 - "General Office Building" , Setting/Location - 'General Urban/Suburban'.

[20] Rates from ITE *Trip Generation Manual* (11th Edition), Land Use 822 - "Strip Retail Plaza (<40k)" , Setting/Location - 'General Urban/Suburban'.

[21] Pass-by rates from the ITE *Trip Generation Manual* (11th Edition) for Land Use 822 - 'Strip Retail Plaza (<40k).' A pass-by rate of 40% was used for the p.m. peak hour. Since daily pass-by rates are not

[22] Rates from ITE *Trip Generation Manual* (11th Edition), Land Use 932 - "High-Turnover (Sit-Down) Restaurant" , Setting/Location - 'General Urban/Suburban'.

[23] Pass-by rates from the ITE *Trip Generation Manual* (11th Edition) for Land Use 932 - 'High-Turnover (Sit-Down) Restaurant.' A pass-by rate of 43% was used for the p.m. peak hour. Since daily pass-by

[24] Trip generation taken from "Rancho Cielito Project" traffic study by Linscott, Law& Greenspan, engineers (May 2021).

[25] Trip generation taken from "Buddhist Temple" traffic study by Linscott, Law& Greenspan, engineers (May 2021).

5.0 PROJECT TRAFFIC

5.1 TRIP GENERATION

The trip generation for the proposed project was developed using the rates from the Institute of Transportation Engineers (ITE) *Trip Generation* Manual, 11th Edition (2021), for Land Uses 220 – "Multifamily Housing (Low-Rise) Not Close to Rail Transit" in urban/suburban settings.

Table 5.A summarizes the daily, a.m. peak-hour, and p.m. peak-hour project trip generation. As shown in Table 5.A, the project is estimated to generate 741 daily trips, with 44 trips occurring during the a.m. peak hour and 56 trips occurring during the p.m. peak hour.

5.2 PROJECT TRIP DISTRIBUTION AND ASSIGNMENT

The distribution of project trips is based on the regional roadway network, local access patterns, and the location of employment, institutional, and commercial centers in relation to the proposed project. Figure 5-1 illustrates the project trip distribution. The project trip generation was applied to the trip distribution patterns to develop the project trip assignment. Figure 5-2 illustrates the project trip assignment.

5.3 LIST OF CHAPTER 5.0 FIGURES AND TABLES

- Figure 5-1: Project Trip Distribution
- Figure 5-2: Project Trip Assignment
- Table 5.A: Project Trip Generation

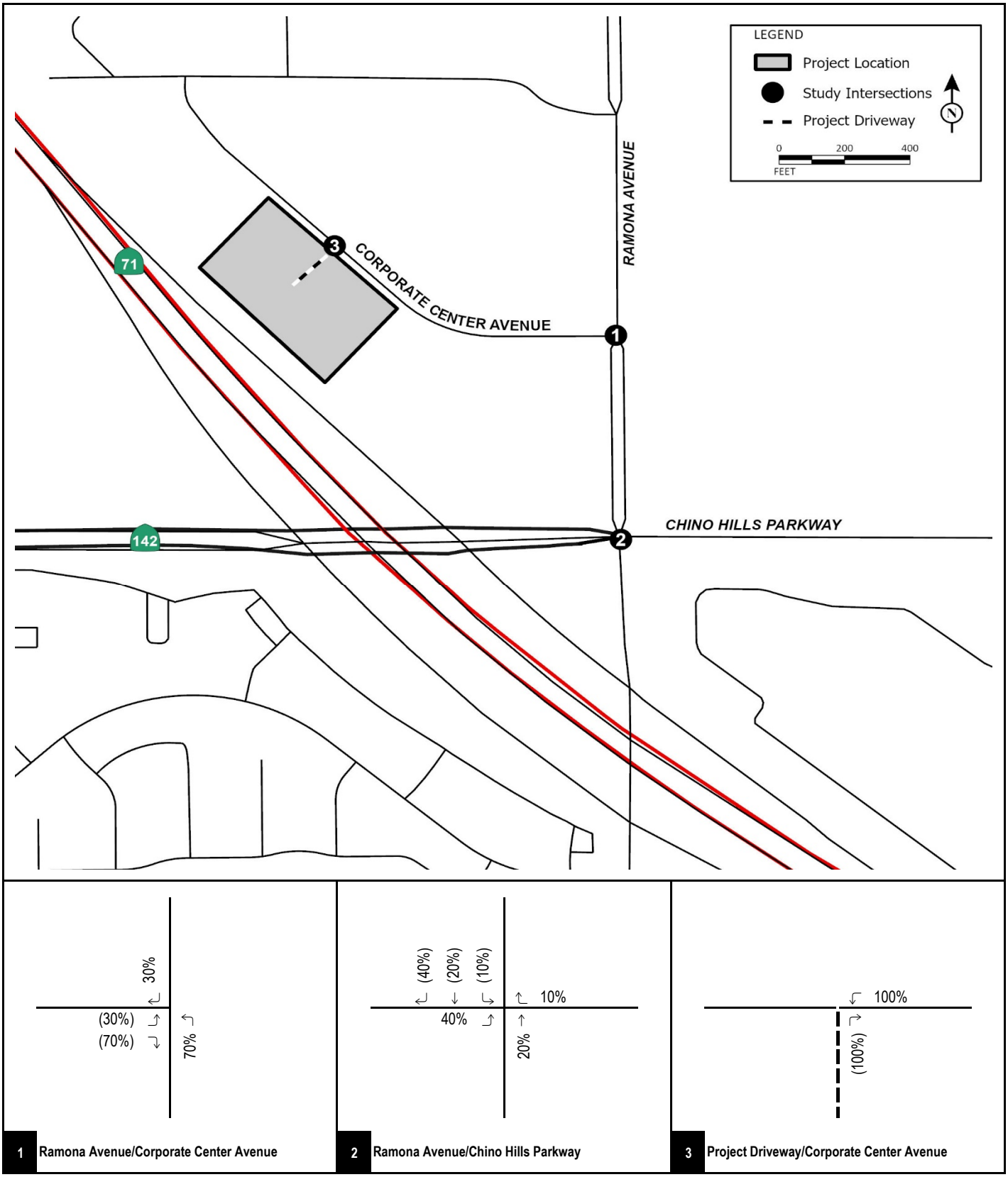


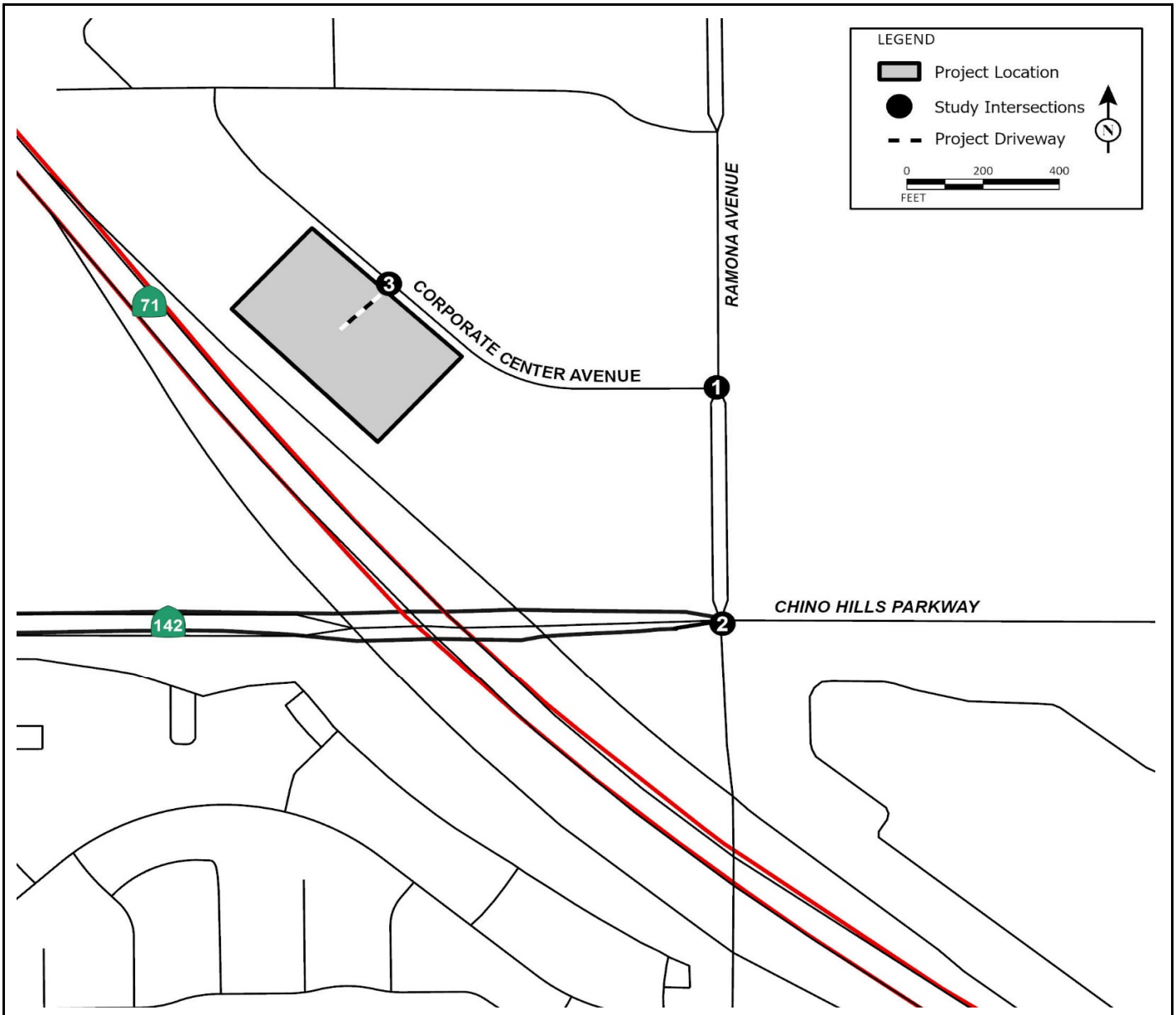
FIGURE 5-1

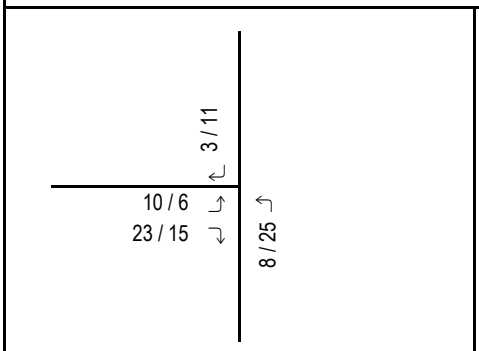
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XXX% (YYY%)
Inbound (Outbound) Distribution

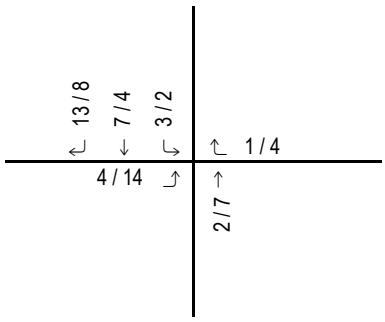
Chino Corporate Center Residential Project
Traffic Impact Analysis

Project Trip Distribution

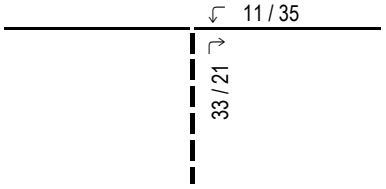




1 Ramona Avenue/Corporate Center Avenue



2 Ramona Avenue/Chino Hills Parkway



3 Project Driveway/Corporate Center Avenue

FIGURE 5-2

LSA

XX / YY
AM / PM Peak Hour Trips

Chino Corporate Center Residential Project
Traffic Impact Analysis

Project Trip Assignment

LSA

Table 5.A - Project Trip Generation

Land Use	Units	A.M. Peak Hour In	A.M. Peak Hour Out	A.M. Peak Hour Total	P.M. Peak Hour In	P.M. Peak Hour Out	P.M. Peak Hour Total	Daily
Multifamily Housing (Low-Rise)	110 DU							
Trips/Unit[1]		0.10	0.30	0.40	0.32	0.19	0.51	6.74
Trip Generation		**11**	**33**	**44**	**35**	**21**	**56**	**741**

Notes:

DU = Dwelling Units

[1] Rates from Institute of Transportation Engineers (ITE) *Trip Generation Manual* , (11th Edition) Land Use 220 - "Multifamily Housing (Low-Rise) Not Close to Rail Transit" , Setting/Location - 'General Urban/Suburban'.

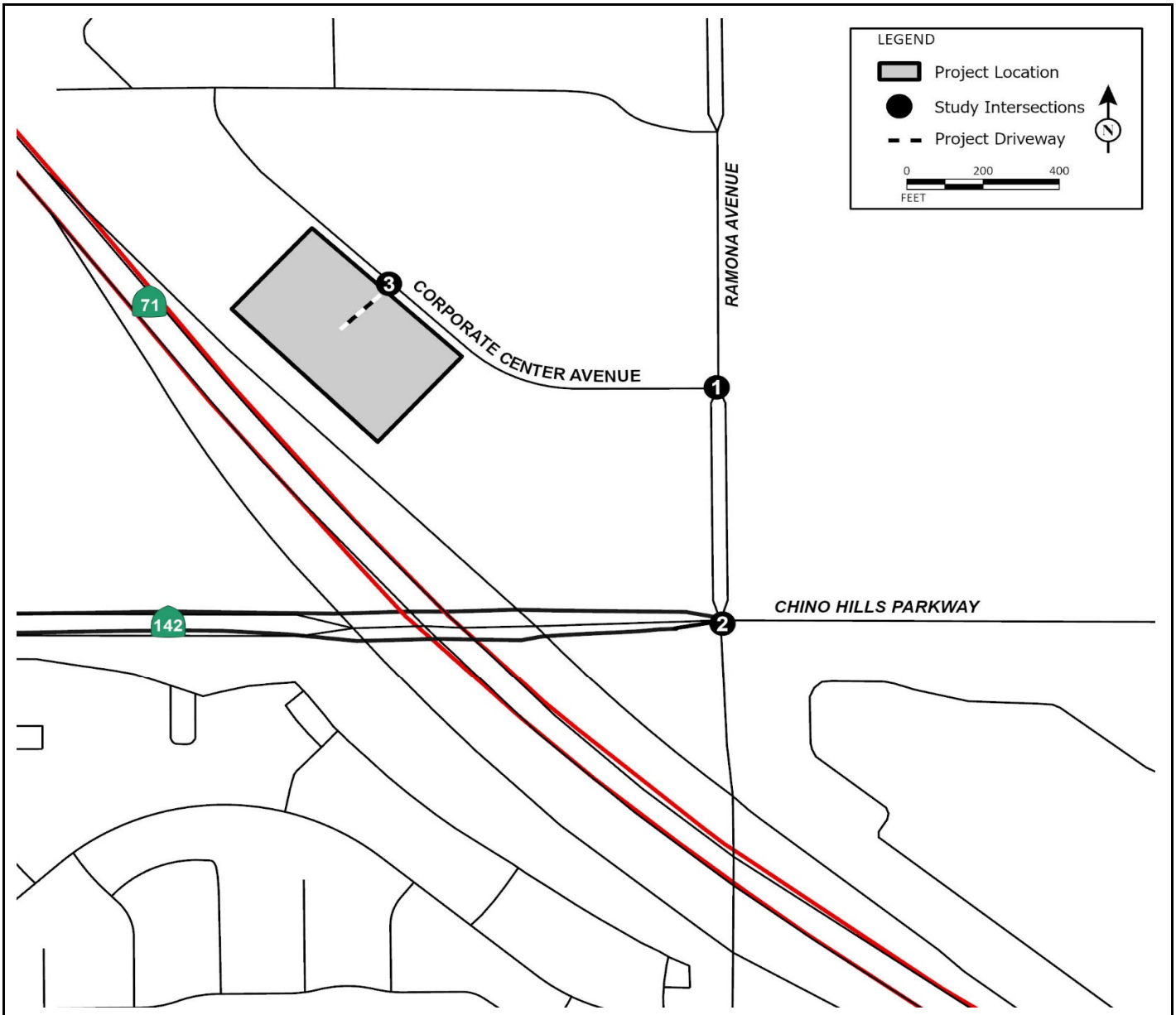
6.0 TRAFFIC VOLUMES FOR WITH PROJECT SCENARIOS

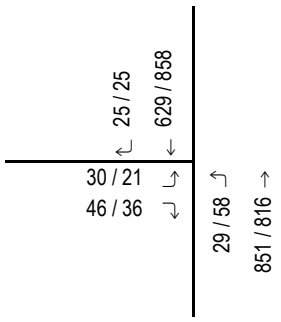
Existing, Opening Year, and Horizon Year with Project traffic volumes were developed by adding project traffic to the corresponding without Project scenarios. Figures 6-1, 6-2 and 6-3 illustrate "With Project" peak-hour traffic volumes at study intersections under existing, opening year, and horizon year conditions, respectively.

Detailed volume development worksheets are included in Appendix C.

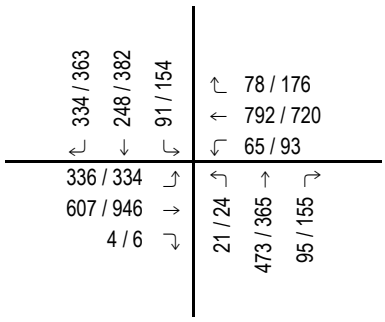
6.1 LIST OF CHAPTER 6.0 FIGURES

- Figure 6-1: Existing with Project Peak Hour Traffic Volumes
- Figure 6-2: Opening Year with Project Peak Hour Traffic Volumes
- Figure 6-3: Horizon Year with Project Peak Hour Traffic Volumes

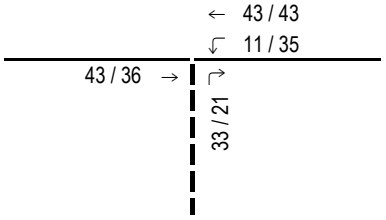




1 Ramona Avenue/Corporate Center Avenue



2 Ramona Avenue/Chino Hills Parkway



3 Project Driveway/Corporate Center Avenue

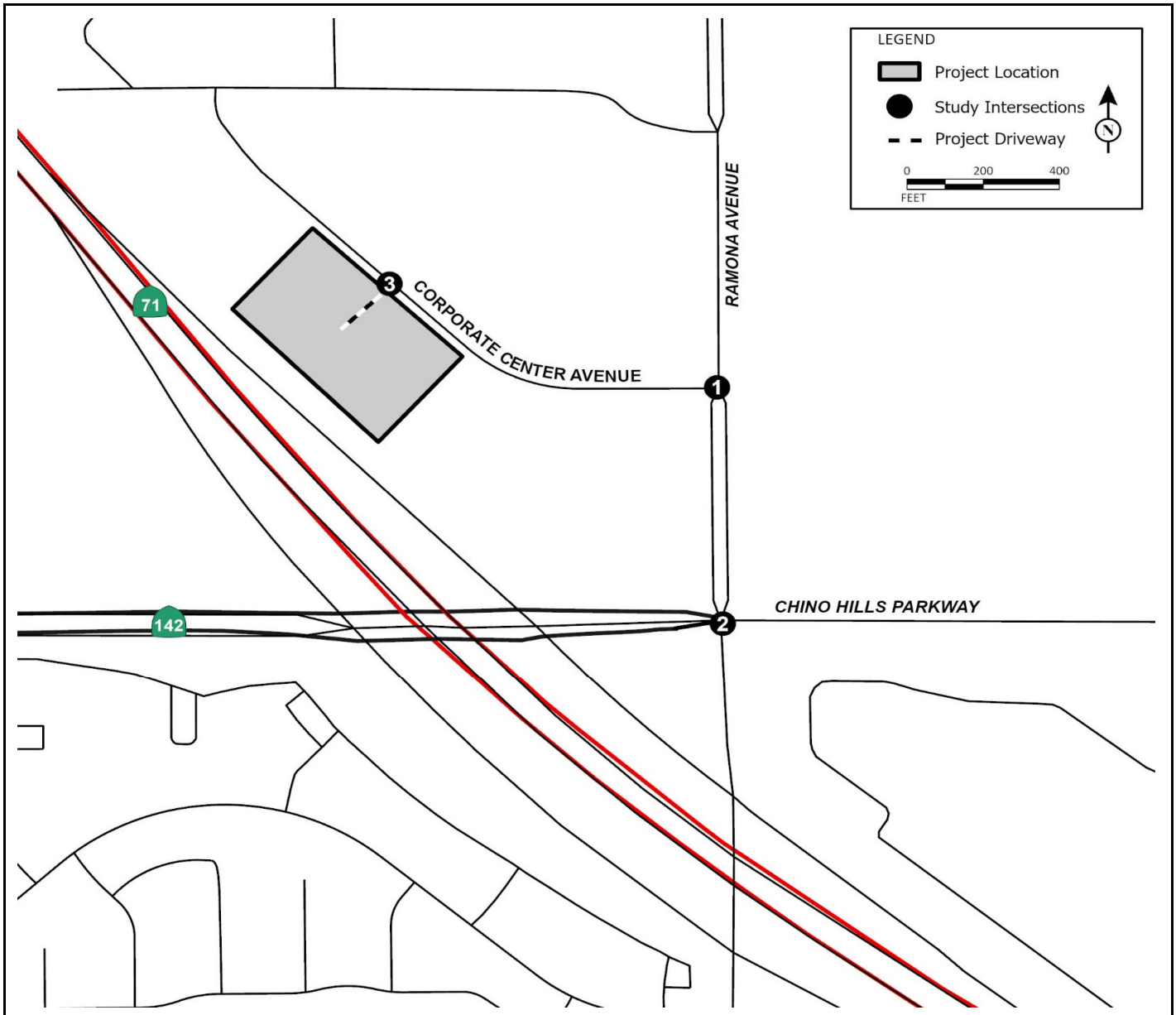
FIGURE 6-1

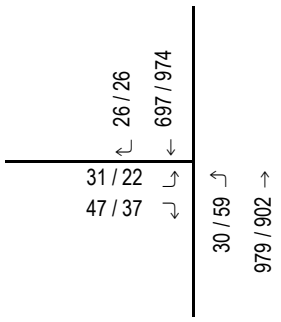
LSA

XXX / YYY
AM / PM Peak Hour Trips

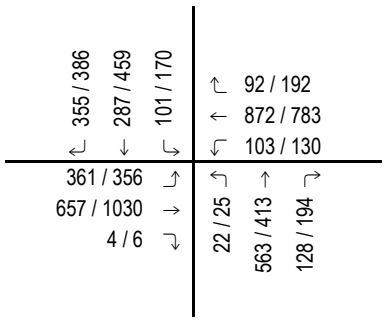
Chino Corporate Center Residential Project
Traffic Impact Analysis

Existing with Project Peak Hour Traffic Volumes

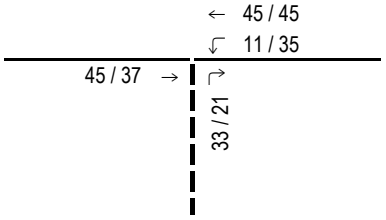




1 Ramona Avenue/Corporate Center Avenue



2 Ramona Avenue/Chino Hills Parkway



3 Project Driveway/Corporate Center Avenue

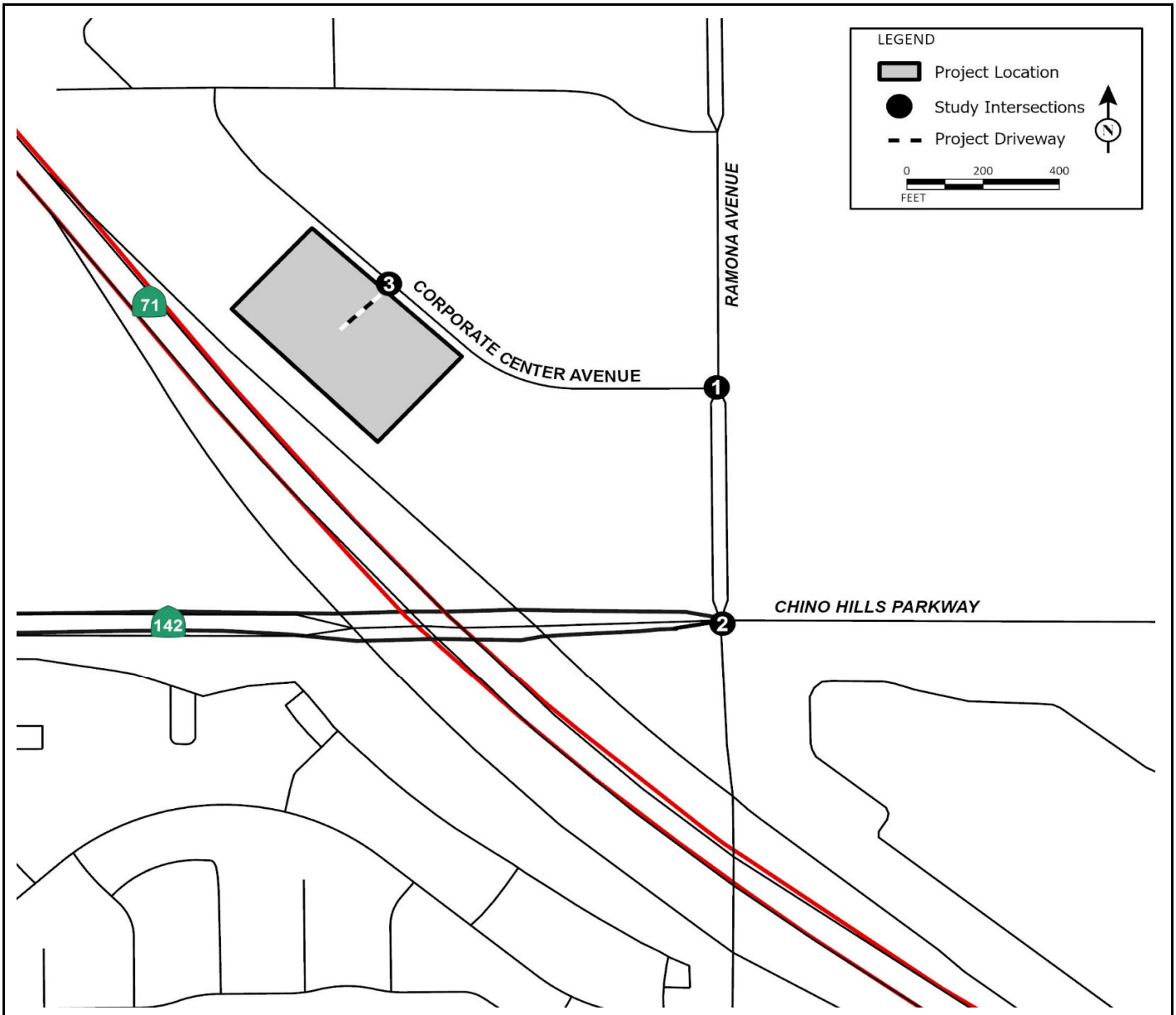
FIGURE 6-2

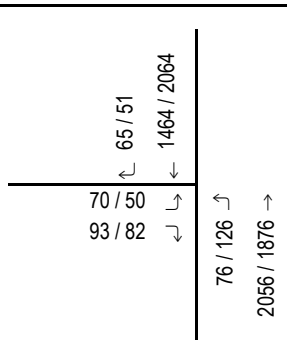
LSA

XXXX / YYYY
AM / PM Peak Hour Trips

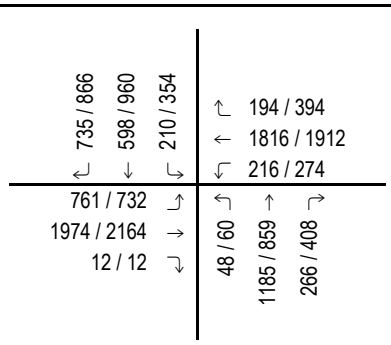
Chino Corporate Center Residential Project
Traffic Impact Analysis

Opening Year with Project Peak Hour Traffic Volumes

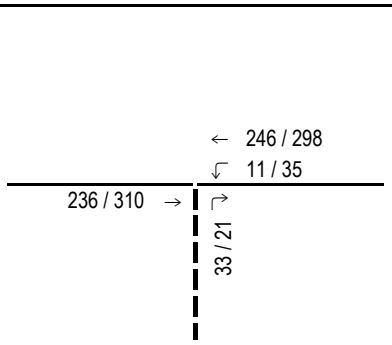




1 **Ramona Avenue/Corporate Center Avenue**



2 **Ramona Avenue/Chino Hills Parkway**



3 **Project Driveway/Corporate Center Avenue**

FIGURE 6-3

LSA

XXXX / YYYY
AM / PM Peak Hour Trips

Chino Corporate Center Residential Project
Traffic Impact Analysis

Horizon Year with Project Peak Hour Traffic Volumes

7.0 INTERSECTION LEVELS OF SERVICE

7.1 EXISTING LEVELS OF SERVICE

Previously referenced Figure 3-2 illustrates the existing with project study intersection geometrics and traffic control. An intersection LOS analysis was conducted for existing conditions using the methodologies previously discussed. Table 7.A summarizes the results of this analysis and shows that all study intersections are currently operating at satisfactory LOS.

Detailed intersection LOS worksheets are included in Appendix D.

7.2 EXISTING WITH PROJECT LEVELS OF SERVICE

An intersection LOS analysis was conducted for Existing With Project conditions using the previously discussed methodologies. Table 7.A summarizes the results of this analysis and shows that all the study intersections are forecast to operate at satisfactory LOS under Existing With Project conditions.

Detailed LOS worksheets are included in Appendix D.

7.3 OPENING YEAR WITHOUT PROJECT LEVELS OF SERVICE

An intersection LOS analysis was conducted for Opening Year Without Project conditions using the previously discussed methodologies. Table 7.B summarizes the results of this analysis and shows that all the study intersections are forecast to operate at satisfactory LOS under Opening Year Without Project.

Detailed LOS worksheets are included in Appendix D.

7.4 OPENING YEAR WITH PROJECT LEVELS OF SERVICE

An intersection LOS analysis was conducted for Opening Year With Project conditions using the previously discussed methodologies. Table 7.B summarizes the results of this analysis and shows that all the study intersections are forecast to operate at satisfactory LOS under Opening Year With Project.

Detailed LOS worksheets are included in Appendix D.

7.5 HORIZON YEAR WITHOUT PROJECT LEVELS OF SERVICE

An intersection LOS analysis was conducted for Horizon Year Without Project conditions using the previously discussed methodologies. Table 7.C summarizes the results of this analysis and shows that all the study intersections are forecast to operate at satisfactory LOS under Horizon Year Without Project.

Detailed LOS worksheets are included in Appendix D.

7.6 HORIZON YEAR WITH PROJECT LEVELS OF SERVICE

An intersection LOS analysis was conducted for Horizon Year With Project conditions using the previously discussed methodologies. Table 7.C summarizes the results of this analysis and shows that all the study intersections are forecast to operate at satisfactory LOS under Horizon Year With Project.

Detailed LOS worksheets are included in Appendix D.

7.7 LIST OF CHAPTER 7.0 TABLES

- Table 7.A: Existing Intersection Levels of Service
- Table 7.B: Opening Year Intersection Levels of Service
- Table 7.C: Horizon Year Intersection Levels of Service

LSA

Table 7.A: Existing Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Without Project					Plus Project				
			Control	A.M. Peak Hour		P.M. Peak Hour		Control	A.M. Peak Hour		P.M. Peak Hour	
				Delay (sec.)	LOS	Delay (sec.)	LOS		Delay (sec.)	LOS	Delay (sec.)	LOS
1 . Ramona Avenue/Corporate Center Avenue	City of Chino	D	OWSC	16.8	C	20.5	C	OWSC	17.5	C	22.0	C
2 . Ramona Avenue/Chino Hills Parkway	City of Chino/City of Chino Hills	D	Signal	39.8	D	38.7	D	Signal	39.9	D	38.8	D
3 . Project Driveway/Corporate Center Avenue	City of Chino	D	OWSC	*Intersection does not exist*		*Intersection does not exist*		OWSC	0.0	A	0.0	A

Notes:

OWSC = One-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

LSA

Table 7.B: Opening Year Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Without Project					Plus Project				
			Control	A.M. Peak Hour		P.M. Peak Hour		Control	A.M. Peak Hour		P.M. Peak Hour	
				Delay (sec.)	LOS	Delay (sec.)	LOS		Delay (sec.)	LOS	Delay (sec.)	LOS
1 . Ramona Avenue/Corporate Center Avenue	City of Chino	D	OWSC	18.4	C	23.7	C	OWSC	19.3	C	25.8	D
2 . Ramona Avenue/Chino Hills Parkway	City of Chino/City of Chino Hills	D	Signal	45.2	D	41.0	D	Signal	45.4	D	41.2	D
3 . Project Driveway/Corporate Center Avenue	City of Chino	D	OWSC	*Intersection does not exist*		*Intersection does not exist*		OWSC	0.0	A	0.0	A

Notes:

OWSC = One-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

LSA

Table 7.C: Horizon Year Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Without Project					Plus Project				
			Control	A.M. Peak Hour		P.M. Peak Hour		Control	A.M. Peak Hour		P.M. Peak Hour	
				Delay (sec.)	LOS	Delay (sec.)	LOS		Delay (sec.)	LOS	Delay (sec.)	LOS
1 . Ramona Avenue/Corporate Center Avenue	City of Chino	D	OWSC	17.0	C	22.6	C	OWSC	17.7	C	24.3	C
2 . Ramona Avenue/Chino Hills Parkway	City of Chino/City of Chino Hills	D	Signal	41.6	D	44.3	D	Signal	41.7	D	44.5	D
3 . Project Driveway/Corporate Center Avenue	City of Chino	D	OWSC	*Intersection does not exist*		*Intersection does not exist*		OWSC	0.0	A	0.0	A

Notes:

OWSC = One-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

8.0 SIGNAL WARRANT ANALYSIS

Based on discussion with City staff, signal warrant analysis was conducted at the intersection of Ramona Avenue/Corporate Center Avenue. A Peak-Hour Warrant (Warrant 3) was conducted at this intersection. Intersection peak-hour approach volumes for the study intersection was examined to determine whether signalization is warranted per the criteria defined in the California supplement of the Manual on Uniform Traffic Control Devices (CA-MUTCD). The following is a brief description of the signal warrant analysis.

8.1 EXISTING CONDITIONS

Figure 8-1 illustrates the Warrant 3 (a.m. and p.m. peak hour) for the Ramona Avenue/Corporate Center Avenue intersection under Existing conditions. As shown on Figure 8-1, this intersection does not meet the signal warrant criteria for either the a.m. or p.m. peak hour under existing conditions. As such, a signal is not warranted at this location under existing conditions.

8.2 OPENING YEAR CONDITIONS

Figure 8-2 illustrates the Warrant 3 (a.m. and p.m. peak hour) for the Ramona Avenue/Corporate Center Avenue intersection under Opening Year conditions. As shown on Figure 8-2, this intersection does meet the peak-hour signal warrant criteria under the Opening Year With Project p.m. peak hour conditions. However, as previously discussed in chapter 7, the intersection of Ramona Avenue/Corporate Center Avenue is forecast to operate at a satisfactory LOS, indicating that vehicular delays and queue lengths remain within acceptable thresholds. As such, improvements are not recommended at this intersection even though it does meet the signal warrant under Opening Year With Project conditions.

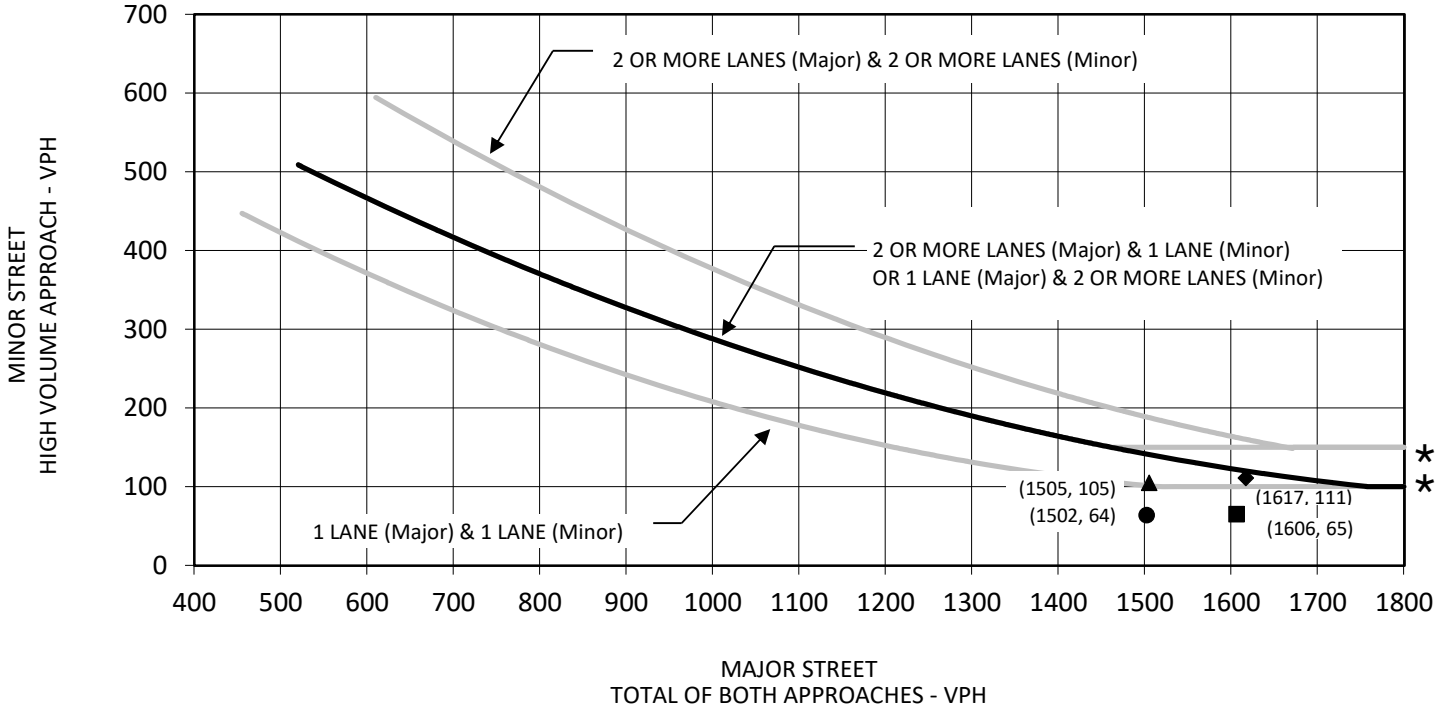
8.3 HORIZON YEAR CONDITIONS

Figure 8-3 illustrates the Warrant 3 (a.m. and p.m. peak hour) for the Ramona Avenue/Corporate Center Avenue intersection under Horizon Year conditions. As shown on Figure 8-3, this intersection does meet the peak-hour signal warrant criteria under the Horizon Year conditions. However, as previously discussed in chapter 7, the intersection of Ramona Avenue/Corporate Center Avenue is forecast to operate at a satisfactory LOS, indicating that vehicular delays and queue lengths remain within acceptable thresholds. As such, improvements are not recommended at this intersection even though it does meet the signal warrant under Opening Year With Project conditions.

8.4 LIST OF CHAPTER 8.0 FIGURES

- Figure 8-1: Warrant 3: Ramona Avenue/Corporate Center Avenue – Existing Conditions
- Figure 8-2: Warrant 3: Ramona Avenue/Corporate Center Avenue – Opening Year Conditions
- Figure 8-3: Warrant 3: Ramona Avenue/Corporate Center Avenue – Horizon Year Conditions

WARRANT 3, PEAK HOUR



* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

FIGURE 8-1

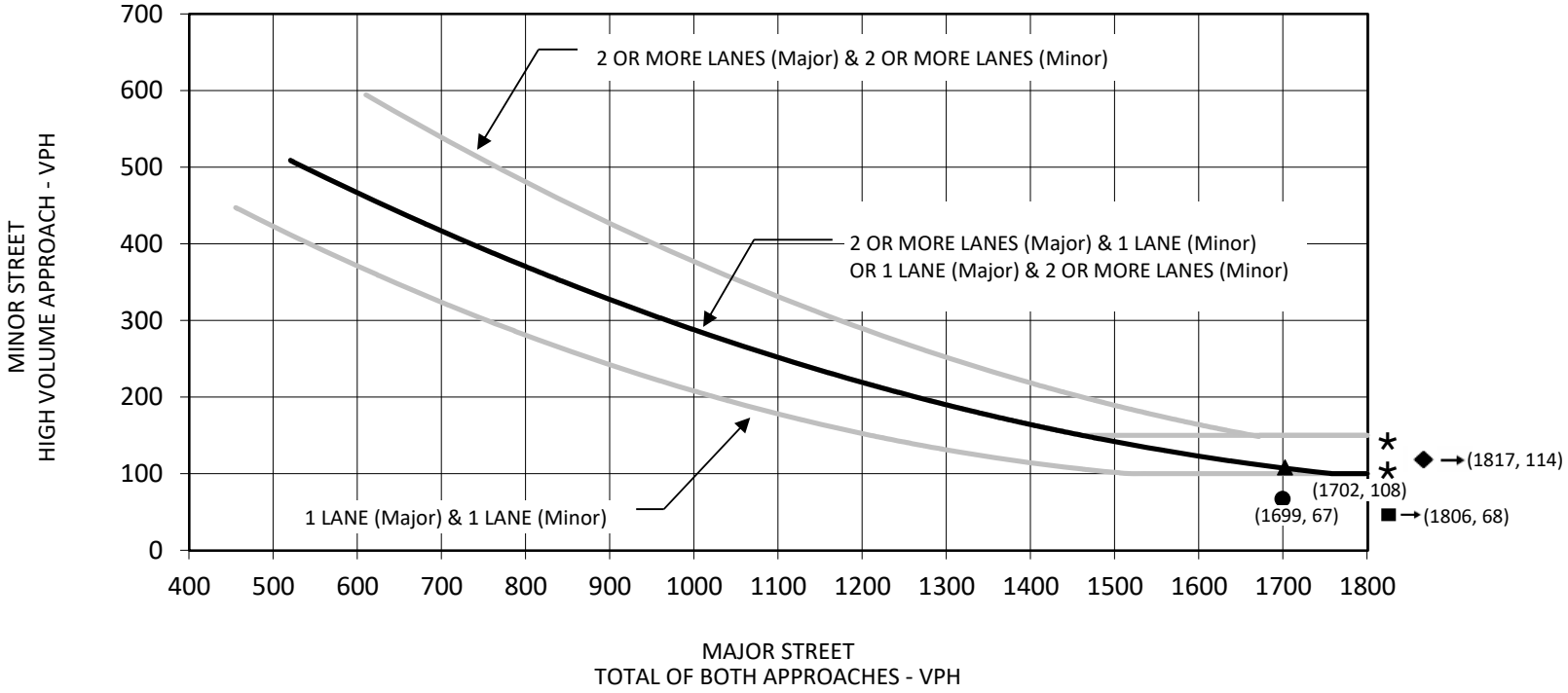
LSA

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

Chino Corporate Center Residential Project
Warrant 3: Ramona Avenue/Corporate Center Avenue – Existing Conditions

WARRANT 3, PEAK HOUR



* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

FIGURE 8-2

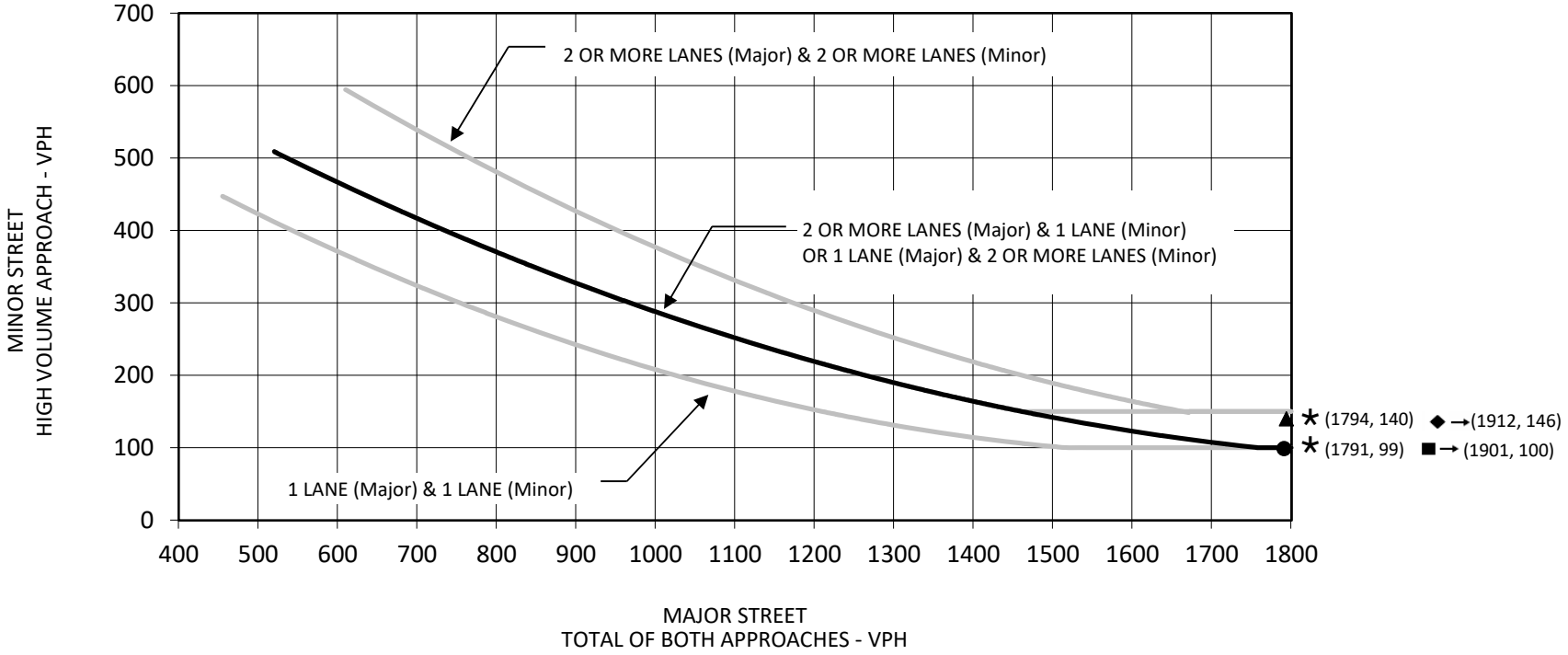
LSA

● No Project AM Peak Hour ▲ With Project AM Peak Hour

■ No Project PM Peak Hour ◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

WARRANT 3, PEAK HOUR



* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

FIGURE 8-3

LSA

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

9.0 INTERSECTION QUEUEING ANALYSIS

9.1 INTERSECTION QUEUEING ANALYSIS

An intersection queueing analysis was performed for all study intersections to determine the existing and future adequacy of turn-pocket storage bays. The queues for the signalized intersections have been reported from Synchro, while for unsignalized intersections, the SimTraffic queues have been reported since Synchro does not appropriately report queues at unsignalized intersections.

Tables 9.A, 9.B, and 9.C list the available turn-pocket storage lengths and summarize the 95th percentile back-of-queue lengths at the study area intersections under Existing, Opening Year, and Horizon Year conditions. As shown in Tables 9.A, 9.B, and 9.C, the expected queue length for the southbound left-turning movement at the intersections of Ramona Avenue/Chino Hills Parkway may exceed the available turn-pocket storage lengths under Existing, Opening Year, and Horizon Year conditions. However, due to the proximity of existing driveway relative to the intersection turn pocket, extending the storage lengths may not be feasible. Additionally, the project trips are expected to contribute only nominal queues (less than 5 feet) at the study intersection turning movement. Furthermore, the southbound left-turning movement has a TWLTL, which allows queueing capacity to extend beyond the striped turn pocket. By re-measuring the available storage up to the point of conflict, the TWLTL effectively provides additional queue storage, reducing any minor queue spill over. Therefore, no extensions to any study area intersection turn pockets are recommended.

Detailed queuing worksheets are included in Appendix E.

9.2 LIST OF CHAPTER 9.0 TABLES

- Table 9.A: Existing Intersection Queuing Analysis
- Table 9.B: Opening Year Intersection Queuing Analysis
- Table 9.C: Horizon Year Intersection Queuing Analysis

LSA

Table 9.A: Existing Intersection Queuing Analysis

Intersection	Movement	Existing Storage Length[1] (ft/ln)	Existing			
			Without Project[2]		Plus Project[2]	
			AM	PM	AM	PM
1. Ramona Avenue/Corporate Center Avenue	**NBL**	145	35	55	40	70
OWSC	**EBL**	175	45	35	55	50
2. Ramona Avenue/Chino Hills Parkway	**NBL**	245	45	45	45	45
Signal	**SBL**	150	120	**195**	120	**200**
	2xEBL	255	195	170	200	190
	WBL	250	95	120	95	120
	WBR	415	25	55	25	55

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; T = Through; R = Right

Bold = Queue exceeds available storage.

1 Storage length for all movements obtained from Google Earth measurements.

2 All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

LSA

Table 9.B: Opening Year Intersection Queuing Analysis

Intersection	Movement	Existing Storage Length[1] (ft/ln)	Opening Year			
			Without Project[2]		Plus Project[2]	
			AM	PM	AM	PM
1. Ramona Avenue/Corporate Center Avenue	**NBL**	145	25	45	45	55
OWSC	**EBL**	175	30	30	45	40
2. Ramona Avenue/Chino Hills Parkway	**NBL**	245	45	45	45	45
Signal	**SBL**	150	130	**225**	130	**230**
	2xEBL	255	220	195	225	210
	WBL	250	135	160	135	160
	WBR	415	35	55	35	55

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; T = Through; R = Right

Bold = Queue exceeds available storage.

1 Storage length for all movements obtained from Google Earth measurements.

2 All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

LSA

Table 9.C: Horizon Year Intersection Queuing Analysis

Intersection	Movement	Existing Storage Length[1] (ft/ln)	Cumulative			
			Without Project[2]		Plus Project[2]	
			AM	PM	AM	PM
1. Ramona Avenue/Corporate Center Avenue	**NBL**	145	45	55	45	65
OWSC	**EBL**	175	45	40	65	40
2. Ramona Avenue/Chino Hills Parkway	**NBL**	245	45	50	45	50
Signal	**SBL**	150	125	**220**	130	**225**
	2xEBL	255	210	190	215	205
	WBL	250	130	160	130	160
	WBR	415	35	55	35	55

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; T = Through; R = Right

Bold = Queue exceeds available storage.

1 Storage length for all movements obtained from Google Earth measurements.

2 All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

10.0 SITE ACCESS ANALYSIS

As shown on Figure 1-2, access to the project site will be provided via one full access driveway along Corporate Center Avenue.

10.1 SIGHT DISTANCE ANALYSIS

A sight distance analysis was conducted at the project driveway along Corporate Center Avenue. Sight distance is the length of the visible roadway for which a driver can see approaching vehicles before their line of sight is blocked by any object. For purposes of this analysis, only the stopping sight distance and corner sight distance have been evaluated. That is because those are the only two sight distance issues that would affect safe maneuver of ingress/egress traffic from the project driveway.

According to the *Caltrans Highway Design Manual* (HDM) (dated July 2020), the stopping sight distance is the minimum sight distance along a roadway required to allow a driver to decrease their speed from the design speed to a complete stop. The corner sight distance is the minimum sight distance in which a driver at a stop-controlled approach can see oncoming traffic on the major street to safely maneuver onto the roadway.

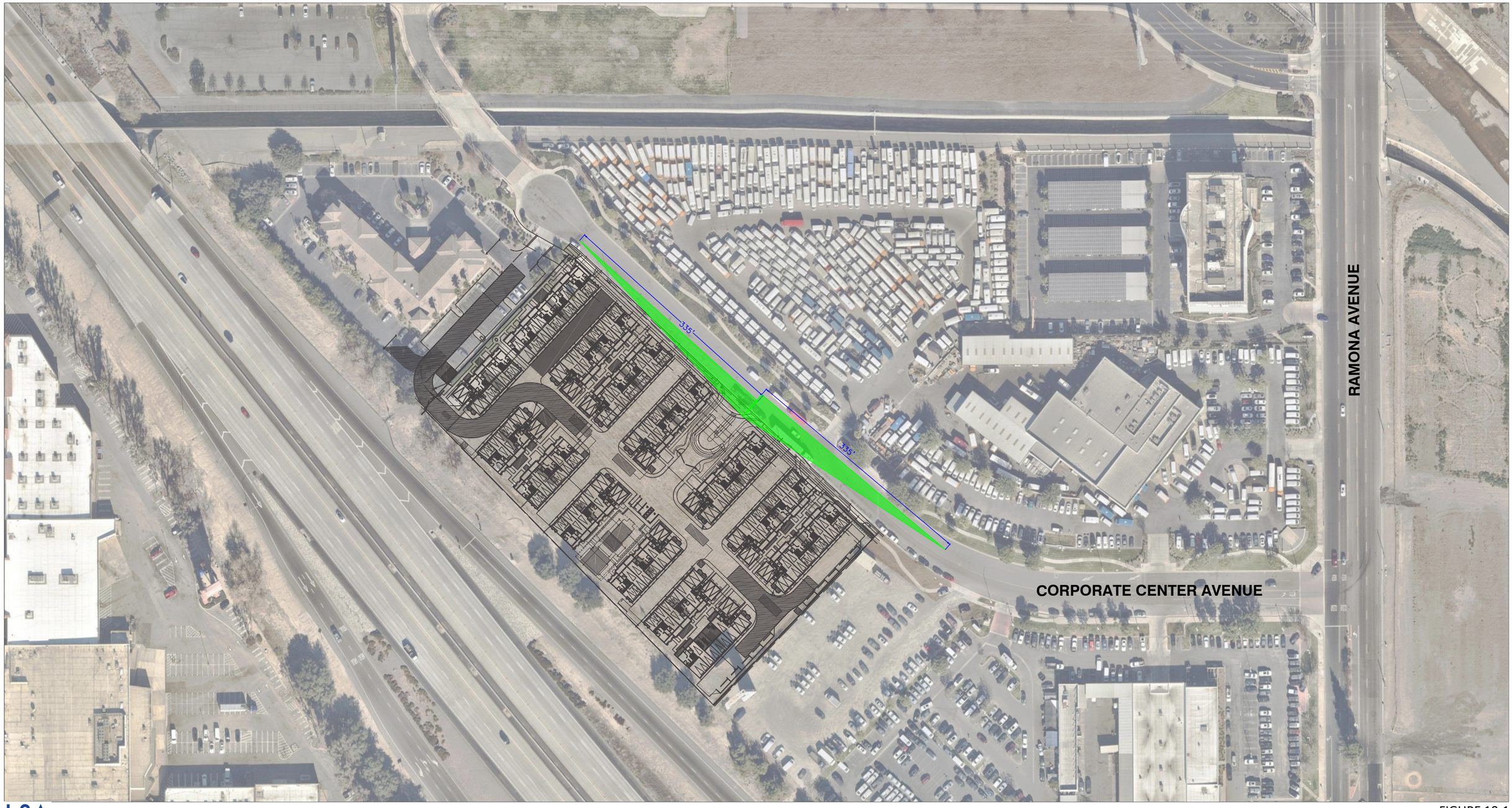
The stopping sight distance was evaluated on the roadway abutting the project (i.e., Corporate Center Avenue). The speed limit of 30 mph is assumed along Corporate Center Avenue. As stated in Table 201.1 of the HDM, the minimum stopping sight distance is 200 feet for a design speed of 30 mph. Therefore, the minimum stopping sight distance has been considered as 200 feet for Project Driveway along Corporate Center Avenue.

As for corner sight distance, Section 405.1 of the HDM states that corner sight distance requirements are not applicable for urban driveways unless they are signalized. However, as a conservative approach, corner sight distances were also evaluated for the project driveway. The minimum corner sight distance was based on design speed, time gap, and type of vehicles from the minor roads (project driveway) to enter the major roads (Corporate Center Avenue). Based on the requirements established in the HDM, it was determined that a minimum corner sight distance of 335 feet would be required for left-turn maneuvers coming out of the Project Driveway. Furthermore, a minimum corner sight distance of 290 feet would be required for right-turn maneuvers coming out of the Project Driveway.

Since the corner sight distance required at the project driveway would be greater than the stopping sight distance, sight triangle figures were created using the corner sight distance. As a conservative measure, left-turn corner sight distance was used for both right- and left-turn sight triangles for the project driveways. As illustrated on Figures 10-1, the Project Driveway will have adequate sight distance for left- and right-turn maneuvers onto Corporate Center Avenue.

10.2 LIST OF CHAPTER 10.0 FIGURES

- Figure 10-1: Corner Sight Distance at Project Driveway



LSA

FIGURE 10-1

0 80' 160'
FEET

SOURCE: TCA Architects and BCT Development, October 2024.
P:\2024\20242048 Chino Corporate Center Residential\Traffic\site access\Sight Distance.dwg (2/14/2025)

Chino Corporate Center Residential Project
Traffic Impact Analysis

Corner Sight Distance at Project Driveway

11.0 VEHICLE MILES TRAVELED ANALYSIS

On December 28, 2018, the California Office of Administrative Law cleared the revised California Environmental Quality Act (CEQA) Guidelines for use. Among the changes to the guidelines was removal of vehicle delay and LOS as the sole basis of determining CEQA impacts. With the adopted CEQA Guidelines, transportation impacts are to be evaluated based on a project's effect on vehicle miles traveled (VMT). The City has adopted its TIA Guidelines – "*City of Chino Traffic Impact Analysis Guidelines* – December 2020" that include VMT screening criteria, analysis methodology, impact thresholds, and mitigation measures. Therefore, the TIA Guidelines were used in the evaluation of the project's VMT analysis.

Pursuant to the TIA Guidelines and as indicated in the SBCTA VMT Screening Tool, the proposed project is neither in a Transit Priority Area (TPA) nor in a low VMT area (an area with VMT 15 percent below the County's baseline VMT per service population [SP]). As such, a detailed VMT analysis was conducted for Baseline and Cumulative conditions (without and with the proposed project) using the SBTAM. Specifically, the VMT analysis will include the evaluation of the following scenarios:

- Baseline conditions;
- Baseline plus project;
- Cumulative no project conditions; and
- Cumulative plus project conditions.

11.1 PROJECT VMT ANALYSIS METHODOLOGY

The most recent version of the San Bernardino County Transportation Analysis Model (SBTAM) – SBTAM Plus (SBTAM 3.2) was used to estimate the project VMT. Per the TIA Guidelines, the project VMT analysis should include both project-generated VMT and the project's effect on VMT. Project-generated VMT is evaluated using VMT per service population (population plus employment) whereas the project's effect on VMT is evaluated using roadway VMT per service population within the City.

VMT per service population for both the project VMT and the VMT threshold were estimated using vehicle trips in Origin/Destination (OD) format. Roadway VMT per service population is estimated using volumes on roadway segments within the City.

As established in the guidelines, the OD VMT per service population was used as the VMT metric to evaluate the project. Origins are all vehicle trips that start/originate in a specific traffic analysis zone (TAZ) and destinations are all vehicle trips that end in a specific TAZ. Therefore, OD VMT method aggregates VMT for all trips that have at least one end of the trip (either origin or destination) in a specific TAZ. The OD VMT method accounts VMT for all vehicles (autos and trucks) and all trip purposes thus providing a comprehensive estimate of VMT generated by a specific TAZ. Pursuant to the City's guidelines, a significant VMT impact would occur according to the following criteria:

- Project Threshold: If the project VMT/SP exceeds the Citywide average under City's General Plan Horizon Year Conditions.
- Cumulative Threshold: If the project causes total daily VMT within the City to be higher than the no project alternative under cumulative conditions. This analysis would be performed using the 'project effect' or 'boundary' method.

As such, project VMT metrics were calculated from the model runs as described below:

11.2 PROJECT TRAFFIC ANALYSIS ZONE UPDATE

Typically, project VMT is calculated by isolating the project in a new TAZ or multiple TAZs depending on the diversity of project land uses and project size. SBTAM Plus does not have the capability to conduct split TAZs or create new TAZs. Therefore, one TAZ (project location TAZ) was borrowed to model the project land use. Socioeconomic data from the borrowed TAZ (project location TAZ) were moved to an adjacent TAZ.

As mentioned above, the VMT was calculated based on a project description of 110 multifamily residential units. SBTAM socioeconomic database for the baseline (2019) and horizon year (2050) scenarios were updated with project socioeconomic data within the project location TAZ.

No project-specific network modifications were made for the model run. A full SBTAM Plus run with 5 feedback loops was conducted for the project. The outputs from both model runs were used to develop project VMT metrics which were compared to the established thresholds to determine project VMT impacts.

11.3 PROJECT VMT ESTIMATION

Outputs from the above-mentioned model runs (with project related land use changes) were used to develop project generated VMT and project's effect on VMT for both baseline and cumulative scenarios.

The City's VMT metrics and thresholds are presented in "Exhibit D – VMT Analysis Thresholds and Methodology: Land Use Projects (page 16 of document)" of the guidelines. The guidelines, however, do not present a numerical value of the threshold for evaluation purposes. Numerical values for the City's thresholds were developed using LSA's "no project" model runs.

11.4 PROJECT IMPACT DETERMINATION

As previously indicated, the project VMT analysis should include two types of VMT: project-generated VMT and the project's effect on VMT. The OD VMT constitutes the project-generated VMT whereas the comparison of roadway VMT within the City for both "Without Project" and "With Project" reflects the project's effect on VMT. The project would have a significant VMT impact if following conditions are met:

- If the baseline project-generated VMT per service population is greater than Citywide average VMT per service population under cumulative conditions, or

- If the project's effect on VMT is greater under the "With Project" condition compared to the "Without Project" condition for cumulative conditions.

Project-generated VMT and the project's effect on VMT were estimated for both the baseline and cumulative scenarios. As shown in Table 11.A, the project OD VMT per service population is 37.0 percent and 46.3 percent lower than the threshold for both baseline and cumulative scenarios, respectively. Therefore, the project would not have a significant VMT impact for project-generated VMT.

Similarly, as shown in Table 11.B, the Citywide roadway VMT per service population does not increase under the "With Project" condition compared to "Without Project" condition for both the baseline and cumulative scenarios. Therefore, the project would not have a significant VMT impact for the project's effect on VMT. As such, the project would not have a significant VMT impact.

11.5 LIST OF CHAPTER 11.0 TABLES

- Table 11.A: Comparison of OD VMT per service population – Project and Regional Threshold
- Table 11.B: Roadway VMT per service population Within City of Chino – With and Without Project

Table 11.A: Comparison of OD VMT per Service Population – Project and Regional Threshold

PA VMT per Service Population	Project	City of Chino General Plan Buildout (Threshold)*	Difference	Percent Difference
2019	28.6	45.4	-16.8	-37.0%
2050	24.4	45.4	-21	-46.3%

** estimated using LSA no project model runs*

Table 11.B: Roadway VMT per Service Population Within the City of Chino – With and Without Project

Roadway VMT per Service Population (City of Chino)	With Project	Without Project*	Difference	Percent Difference
2019	16.4	16.5	-0.1	-0.006%
2050	18.6	18.7	-0.1	-0.005%

** estimated using LSA no project model runs*

12.0 ACTIVE TRANSPORTATION AND PUBLIC TRANSIT ANALYSIS

Significant impacts were evaluated based on whether the proposed project conflicts with adopted plans, policies, or programs regarding active transportation or public transit facilities, or otherwise decreases the performance or safety of such facilities.

As previously discussed in Section 3.2, based on the City of Chino Bicycle and Pedestrian Master Plan in 2016, at present, Class II bike lanes exist along Chino Hills Parkway in the westbound direction west of Ramona Avenue and eastbound direction east of Ramona Avenue within this segment. A Class I Bike Lane is planned to be added along Chino Creek north of the project site, the project would not decrease the performance or safety of any existing or proposed bicycle facility.

According to the Transportation and Multi-Modal Mobility Element of the City of Chino's General Plan, sidewalks are generally provided on both sides of the streets. Currently, the study area along Ramona Avenue, Chino Hills Parkway, and Corporate Center Avenue features well-maintained paved sidewalks on both sides. These sidewalks provide pedestrians with designated pathways for safe travel. As previously referenced, the project will construct a paved sidewalk along the project frontage along Corporate Center Avenue. As such, the project will improve the performance and safety of the existing and proposed pedestrian facilities.

OmniTrans local bus Route 88 currently operates at the closest bus stop (approximately 1.5 miles) from the project site, at the intersection of Pipeline Avenue/Edison Avenue. Route 88 has connections to the Chino Civic Center, Chino Transit Center and Montclair Transit Center. Crosswalks for Pipeline Avenue and Edison Avenue are provided at the bus stop locations for safe access to the bus route. As such, the project will not decrease the performance or safety of any existing bus stops/transit routes located within the study area.

The project does not conflict with any existing or proposed bicycle, pedestrian, or public transit facilities. Therefore, the project can be considered to conform to all adopted policies, plans, or programs concerning these facilities and would not have a significant impact.

13.0 CONSTRUCTION MANAGEMENT PLAN

To ensure impacts to the surrounding street system are kept to a minimum during the construction process, it is recommended that a Construction Management Plan for the proposed Project be developed. Construction activities typical to development like the proposed Project would include site demolition/preparation, site grading/excavation and building construction. The Construction Management Plan should be developed in coordination with the City of Chino Transportation Manager/Traffic Engineer and at a minimum, address the following:

- Traffic control shall be prepared for any street closure, detour, or other disruption to traffic circulation.
- Identify the routes that trucks will utilize for the export of soil.
- Specify the hours during which transport activities can occur.
- The haul route will be reviewed by the City Transportation Manager/Traffic Engineer and may include circulation modifications to help reduce impacts.
- Subject to the direction of the City Transportation Manager/Traffic Engineer, haul operations associated with the hauling of materials may be prohibited during the AM and PM peak commuter periods (i.e. between 6:00-9:00 AM and 4:00-7:00 PM).
- Require the Applicant to keep all haul routes clean and free of debris including but not limited to gravel and dirt as a result of its operations. The Applicant shall clean adjacent streets, as directed by the City Transportation Manager/Traffic Engineer (or representative of the City Traffic Engineer), of any material which may have been spilled, tracked, or blown onto adjacent streets or areas.
- Use of local streets shall be prohibited.
- Haul trucks entering or exiting public streets shall at all times yield to public traffic.
- If hauling operations cause any damage to existing pavement, street, curb, and/or gutter along the haul route, the applicant will be fully responsible for repairs. The repairs shall be completed to the satisfaction of the City Transportation Manager/Traffic Engineer.
- This Plan shall meet standards established in the current CA-MUTCD as well as City of Chino requirements.

14.0 SUMMARY AND CONCLUSIONS

The proposed project consists of 110 multi-family residential dwelling units and access to the project site will be provided via one full access driveway along Corporate Center Avenue and an EVA only driveway that is accessed through the adjacent Extended Stay America hotel driveway.

14.1 EXISTING CONDITIONS SUMMARY

All study intersections are currently operating at a satisfactory LOS under Existing conditions.

14.2 EXISTING WITH PROJECT CONDITIONS SUMMARY

All study intersections would operate at a satisfactory LOS under Existing with project conditions.

14.3 OPENING YEAR WITHOUT PROJECT CONDITIONS SUMMARY

All study intersections are forecast to operate at a satisfactory LOS under Opening Year Without Project conditions.

14.4 OPENING YEAR WITH PROJECT CONDITIONS SUMMARY

All study intersections are forecast to operate at a satisfactory LOS under Opening Year With Project conditions.

14.5 HORIZON YEAR WITHOUT PROJECT CONDITIONS SUMMARY

All study intersections are forecast to operate at a satisfactory LOS under Horizon Year Without Project conditions.

14.6 HORIZON YEAR WITH PROJECT CONDITIONS SUMMARY

All study intersections are forecast to operate at a satisfactory LOS under Horizon Year With Project conditions.

14.7 INTERSECTION QUEUING ANALYSIS

Based on the queuing analysis of intersections in the project vicinity, the project would not significantly increase the intersection queues.

14.8 VEHICLE MILES TRAVELED ANALYSIS

A detailed VMT analysis was conducted to assess the project's VMT impact. Based on the TIA Guidelines, the project VMT analysis includes two types of VMT: project-generated VMT and the project's effect on VMT. The project OD VMT per service population is 37 percent and 46.25 percent lower than the threshold for the baseline and cumulative scenarios, respectively. In addition, the Citywide roadway VMT per service population under the "With Project" condition is not greater than the "Without Project" condition for both the baseline and cumulative scenarios. Therefore, the project would not have a significant VMT impact for project-generated VMT and the project's effect on VMT.

14.9 ACTIVE TRANSPORTATION AND PUBLIC TRANSIT ANALYSIS

The proposed project does not conflict with any existing or proposed bicycle, pedestrian, or public transit facilities. Therefore, the project can be considered to conform to all adopted policies, plans, or programs concerning these facilities and would not have a significant impact.

14.10 CONSTRUCTION MANAGEMENT PLAN

To ensure impacts to the surrounding street system are kept to a minimum during the construction process, it is recommended that a Construction Management Plan for the proposed Project be developed. Construction activities typical to development like the proposed Project would include site demolition/preparation, site grading/excavation and building construction.

APPENDIX A

SCOPING AGREEMENT

CARLSBAD
CLOVIS
IRVINE
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

January 6, 2025

Dennis Ralls, T.E.
Transportation Manager
City of Chino
13220 Central Avenue
Chino, California 91710

Subject: Traffic Impact Analysis Scope of Work for the Chino Corporate Center Residential Project (LSA Project No. 20242048)

Dear Mr. Ralls:

LSA has prepared this Scope of Work for the preparation of a Traffic Impacts Analysis (TIA) for the proposed Chino Corporate Center Residential Project (project) within the City of Chino (City) in San Bernardino County (County). The project site is a vacant parcel located on Corporate Center Avenue north of SR-71, and west of Ramona Avenue. The 4.14-acre parcel for the project site was previously approved Auto Mall (AM) land use by the Eucalyptus Business Park Specific Plan. Figure 1 (all figures, tables, and appendices attached) illustrates the regional and project location.

The proposed project includes development of 110 multi-family residential dwelling units and the opening year is anticipated to be 2026. Access to the project site will be provided via one full access driveway along Corporate Center Avenue and an Emergency Vehicle Access (EVA) only driveway that is accessed through the adjacent Extended Stay America hotel driveway. Figure 2 illustrates the conceptual site plan for the project.

LSA anticipates that the following TIA Scope of Work will be required for the proposed project.

TRAFFIC IMPACT ANALYSIS SCOPE OF WORK

The scope of work has been prepared consistent with the *City of Chino Traffic Impact Analysis Guidelines*, dated December 2020 (TIA Guidelines). As per the TIA Guidelines, the TIA should include two components: (1) a Level of Service (LOS) Analysis for General Plan consistency purposes and (2) a Vehicle Miles Traveled (VMT) Analysis.

LEVEL OF SERVICE ANALYSIS

Study Area Intersection Analysis

An LOS analysis will be prepared in accordance with the methodology of the TIA Guidelines. According to the TIA Guidelines, projects that are anticipated to generate 50 or more peak-hour trips should conduct a detailed LOS analysis. As shown in Table A and discussed later, the proposed project is anticipated to generate more than 50 peak-hour trips. Therefore, a detailed LOS analysis is required for the proposed project. The scoping agreement is included in Attachment A.

As recommended in the TIA Guidelines, the LOS analysis study area should include intersections where the proposed project is estimated to add 50 or more peak-hour trips, or where the proposed project may create an operational deficiency. Given the location of the project, the following intersections are being proposed to be included in the analysis:

1. Ramona Avenue/Corporate Center Avenue
2. Ramona Avenue/Chino Hills Parkway
3. Project Driveway/Corporate Center Avenue

All study area intersections are under the City's jurisdiction. Figure 3 illustrates the study area intersections. All study area intersections will be analyzed during the weekday a.m. and p.m. peak hours as identified in the TIA guidelines. As outlined in the TIA guidelines, the a.m. peak hour is defined as the one hour of highest traffic volume occurring between 6:00 a.m. and 9:00 a.m., while the p.m. peak hour is defined as the one hour of highest traffic volume occurring between 4:00 p.m. and 7:00 p.m. Intersection LOS will be calculated using the Highway Capacity Manual 7 (HCM 7) analysis methodologies and using Synchro 12 software.

Project Trip Generation

The trip generation for the proposed project was developed using the rates from the Institute of Transportation Engineers (ITE) *Trip Generation* Manual, 11th Edition (2021), for Land Uses 220 – "Multifamily Housing (Low-Rise) Not Close to Rail Transit" in urban/suburban settings.

Table A summarizes the daily, a.m. peak-hour, and p.m. peak-hour project trip generation. As shown in Table A, the project is estimated to generate 741 daily trips, with 44 trips occurring during the a.m. peak hour and 56 trips occurring during the p.m. peak hour.

The distribution of project trips is based on the regional roadway network, local access patterns, and the location of employment, institutional, and commercial centers in relation to the proposed project. Figure 4 illustrates the project trip distribution. The project trip generation was applied to the trip distribution patterns to develop the project trip assignment. Figure 5 illustrates the project trip assignment.

Analysis Scenarios

The LOS analysis will satisfy the requirements established in the TIA Guidelines. The TIA will examine the study area intersections under the following scenarios:

- Existing Conditions
- Existing With Project Conditions
- Opening Year Without Project Conditions
- Opening Year With Projects Conditions
- Horizon Year Without Project Conditions
- Horizon Year With Project Conditions

Volume Development and Analysis Methodology

Traffic volumes for existing year traffic conditions will be based on existing weekday a.m. and p.m. peak-hour traffic counts collected for the study area intersections.

Traffic volumes for the opening year without project conditions will be developed by applying a 2 percent per annum growth rate to the existing traffic volumes and by adding trips from cumulative projects within the study area vicinity that are anticipated to be constructed by the opening year. LSA has obtained information regarding cumulative projects from City's Planning Department and the adjacent jurisdiction of City of Chino Hills to be included in the analysis. Cumulative projects to be included in this study are summarized in Table B. Locations of cumulative projects are illustrated in Figure 6.

Horizon year traffic volumes will be developed using the growth forecasts from the San Bernardino Transportation Analysis Model (SBTAM) and by applying appropriate post-processing methodologies, per the National Cooperative Highway Research Program (NCHRP).

Existing, Opening Year, and Horizon Year with project traffic volumes will be developed by adding project traffic to the corresponding without project scenario traffic volumes.

As previously stated, the TIA will analyze traffic operations at study area intersections during the a.m., and p.m. peak hours for Existing, Opening Year, and Horizon Year conditions. Intersection LOS will be calculated using the previously mentioned methodologies.

Analysis of Traffic Operations and Recommended Circulation Improvements

Intersection LOS for without project conditions will be compared to the intersection LOS with the proposed project to determine potential operational deficiencies based on the LOS standards as applicable for the City. Necessary improvement measures will be recommended to improve intersection performance to conform with the City's General Plan LOS related goals and policies. Improvements may include intersection turn lanes, signalization, and segment lane additions. The LOS with recommended improvements will be calculated and summarized along with a comparison of the LOS without improvements.

All-Way Stop and Signal Warrant Analysis

An all-way stop and signal warrant analysis will be conducted at unsignalized intersections if a signal is recommended as an improvement. The all-way stop and peak-hour approach volumes for the study area intersections will be examined to determine whether signalization may be warranted per the criteria defined in the most recent edition of California supplement of the *Manual on Uniform Traffic Control Devices* (CA-MUTCD).

Site Access Analysis

LSA will evaluate the intersection sight distance, adequacy of driveway lengths, corner clearance issues, and other operational issues as determined by the City.

Fair Share Contribution

LSA will evaluate whether the mitigation measures identified in the TIA are included in the San Bernardino County Transportation Authority (SBCTA) Nexus Study or the City's Development Impact Fees (DIF) Nexus.

The fair-share percentage for the proposed project will be calculated at each location using the total trips generated by the proposed project divided by the total new traffic, which is the net increase in traffic volumes from existing to horizon year with project conditions.

VEHICLE MILES TRAVELED ASSESSMENT

Senate Bill 743 (SB 743) required changes be made to CEQA regulations and introduced VMT as the new metric for determining project impacts. Pursuant to the TIA Guidelines and as indicated in the SBCTA VMT Screening Tool, the proposed project is neither in a Transit Priority Area (TPA) nor in a low VMT area (an area with VMT 15 percent below the County's baseline VMT per service population [SP]). As such, a VMT analysis is required for Baseline and Cumulative conditions (without and with the proposed project) using the SBTAM. LSA will prepare a detailed VMT analysis using the SBTAM and determine whether the proposed project would result in a VMT impact. Specifically, the VMT analysis will include the evaluation of the following scenarios:

- Baseline conditions;
- Baseline plus project;
- Cumulative no project conditions; and
- Cumulative plus project conditions.

Project's VMT significant impact will be determined based on the following criteria per the City's Guidelines:

- Project Threshold: If the project VMT/SP exceeds the Citywide average under General Plan Horizon Year Conditions.
- Cumulative Threshold: If the project causes total daily VMT within the City to be higher than the no project alternative under cumulative conditions. This analysis would be performed using the 'project effect' or 'boundary' method.

Following are the tasks to be completed as part of the VMT analysis.

Project Traffic Analysis Zone Update

The first step in preparation of this analysis will be to update the traffic analysis zones (TAZs) in the model that includes the project area. The project should be isolated to estimate its VMT and impact. SBTAM doesn't include capability to conduct TAZ splits/add new TAZs, therefore, LSA will borrow a TAZ from the project area to model the project. LSA will convert the project land use into model socioeconomic categories and the socioeconomic data for the project TAZs in the base year model scenario will be updated.

Project VMT Analysis

Upon completion of the socioeconomic data update, LSA will conduct model run for the base scenario with the updated inputs. LSA will utilize the outputs from the model runs to estimate project VMT per service population. VMT per service population can be calculated using either the Production-Attraction (PA) method or the Origin-Destination (OD) method. The city's guidelines currently don't specify which method needs to be applied to calculate the VMT per service population. LSA would request confirmation from the city regarding use of the acceptable methodology. Further, the outputs will be compared with the previously mentioned thresholds to determine if the project will create a significant VMT impact.

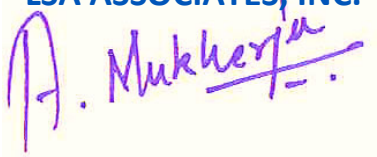
Project VMT Mitigations

If the VMT analysis results in a significant VMT impact, the project will be required to provide mitigation measures to offset the impacts. LSA will review the available mitigation measures by implementing Transportation Demand Management (TDM) strategies and identifying appropriate and feasible mitigations as applicable for this project. Additionally, LSA will discuss the feasibility of the identified mitigation measures with the project applicant and City staff prior to including them as part of the VMT analysis.

Should you have any questions, please do not hesitate to contact me at (951) 781-9310 or email me at Ambarish.Mukherjee@lsa.net

Sincerely,

LSA ASSOCIATES, INC.



Ambarish Mukherjee, PE, AICP
Principal

Attachments: A: Scoping Agreement
B: Figures
C: Tables

ATTACHMENT A

SCOPING AGREEMENT

EXHIBIT A – SCOPING AGREEMENT

SCOPING AGREEMENT FOR CHINO'S TRAFFIC IMPACT ANALYSIS

Project Name: Chino Corporate Center Residential Project

Address / Location: Located on Corporate Center Avenue north of SR-71 and west of Ramona Avenue

Project Description: 110 multi-family residential dwelling units

Chino Project No.: PL24-0151 Specific Plan: Eucalyptus Business Park Specific Plan.

	Consultant	Developer
Name:	LSA Associates, Inc.	Clarke Campion, BCT Development
Address:	1500 Iowa Ave., Suite 200, Riverside, CA 92507	130 Newport Center Dr., Suite 210 Newport Beach CA 92660
Telephone:	(951) 781-9310	(949) 610-5203
E-mail:	Ambarish.Mukherjee@lsa.net	ccampion@cherrytreecp.com

A. Trip Generation

Source: ITE 10th Edition Other: ITE Trip Generation Manual 11th Edition

Current Land Use: AM Proposed Land Use: Residential

Current Zoning: AM Proposed Zoning: Residential

One-Way Trip Ends in PCE	IN	OUT	TOTAL
Total Project Trips:	371	370	741
AM Peak Hour (-):	11	33	44
PM Peak Hour (-):	35	21	56
Other (-):			

Internal Capture: Yes / No ✓ Percentage: — %

Pass-By Trips: Yes / No ✓ Percentage: — %

B. Trip Geographic Distribution

Attach exhibit showing detailed distribution

C. Traffic Projections

Existing:	2024	Count Year:	2024
Project Opening Year:	2026	Growth Rate:	2%
General Plan Horizon Year:	2050	Growth Rate:	
Other:		Growth Rate:	

D. Study Intersections

1. Ramona Avenue/Corporate Center Avenue	4.
2. Ramona Avenue/Chino Hills Parkway	5.
3. Project Driveway/Corporate Center Avenue	6.

E. Study Area Roadway Segments

1. N/A
2.

F. Other Jurisdictional Impacts

Is this project within a one-mile radius of the Sphere of Influence of another City or County boundary? Yes / No If so, name of Jurisdiction(s): City of Chino Hills

G. Site Plan

Attach reduced site plan.

H. SB-743: Vehicles per Mile Traveled

VMT analysis based on Chino's draft threshold and methodology.

I. Specific Issues to be addressed

1.
2.
3.

Approved by:

City of Chino, Transportation Manager:

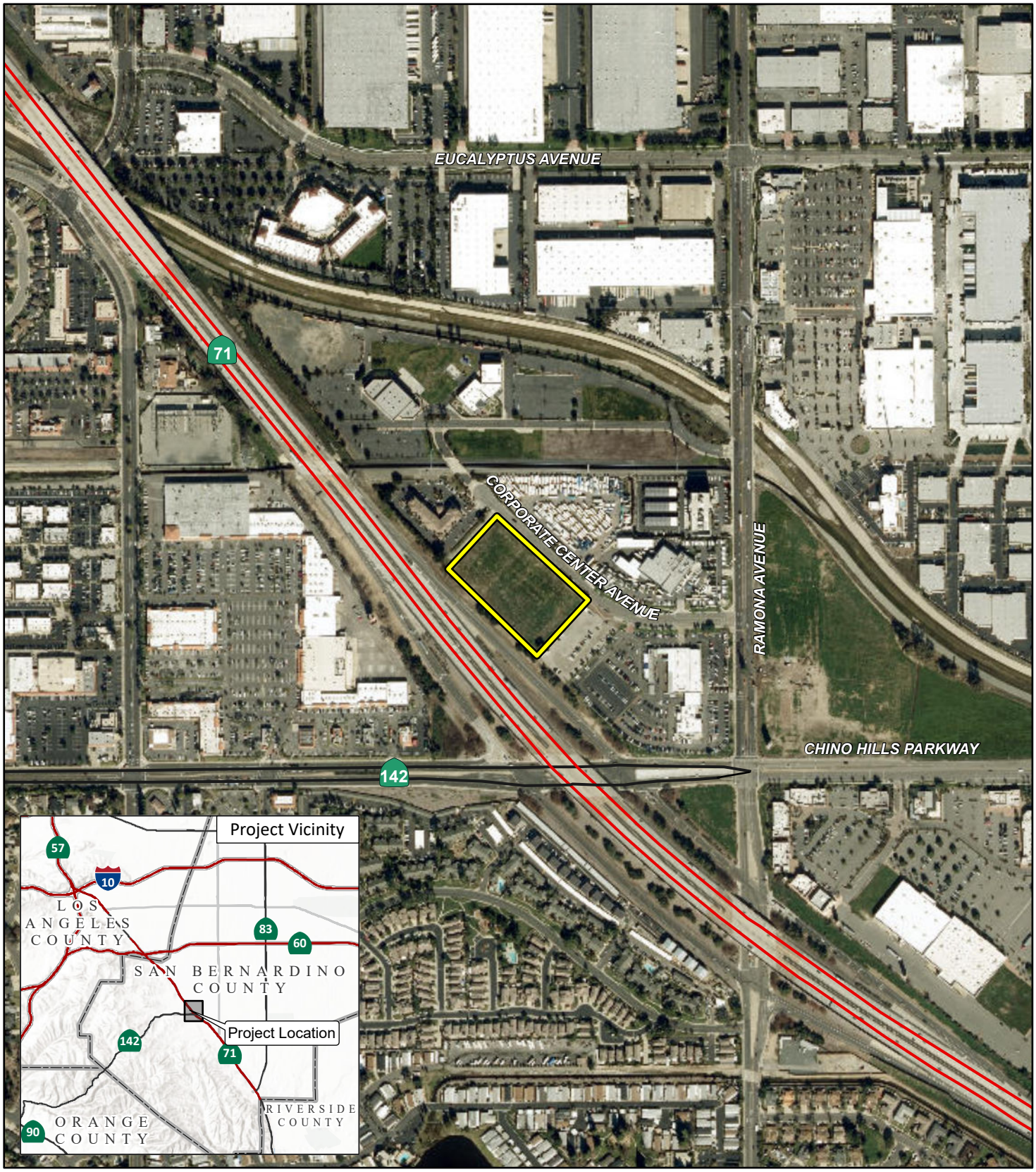
APPROVED
CITY OF CHINO TRANSPORTATION
BY DATE 07/18/2024

Date:

ATTACHMENT B

FIGURES

Figure 1: Regional and Project Location
Figure 2: Conceptual Site Plan
Figure 3: Study Area Intersections
Figure 4: Project Trip Distribution
Figure 5: Project Trip Assignment
Figure 6: Cumulative Project Locations



LSA

LEGEND

Project Location

FIGURE 1

N

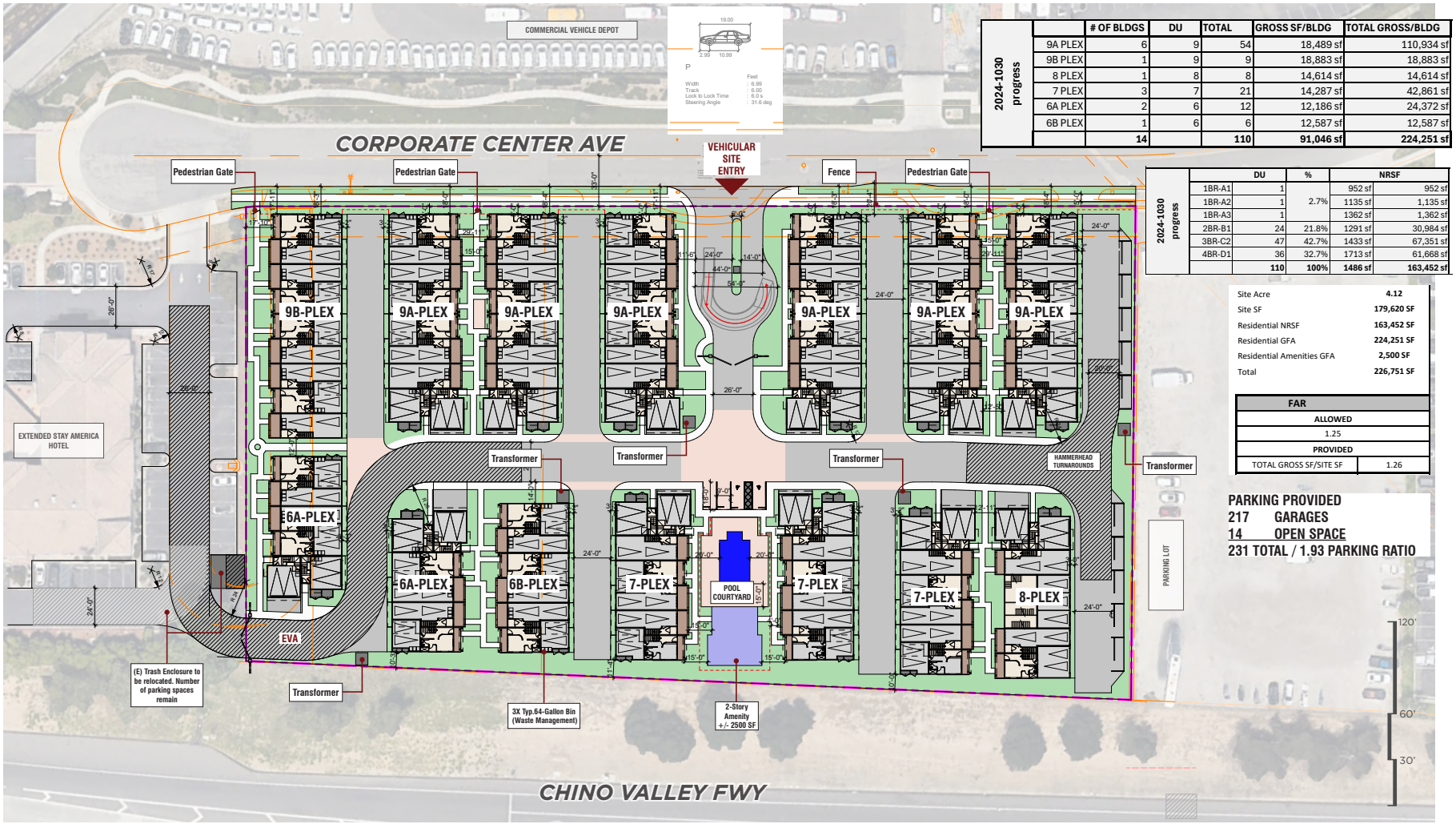
0 290 580

FEET

SOURCE: ESRI Streets, 2021; Google Earth, 2023.

Chino Corporate Center Residential Project
Traffic Impact Analysis
Regional and Project Location

P:\2024\20242048 Chino Corporate Center Residential\Traffic\graphics\GIS\Chino Corp Residential.aprx (11/27/2024)



2024-1030 progress		# OF BLDGS	DU	TOTAL	GROSS SF/BLDG	TOTAL GROSS/BLDG
	9A PLEX	6	9	54	18,489 sf	110,934 sf
	9B PLEX	1	9	9	18,883 sf	18,883 sf
	8 PLEX	1	8	8	14,614 sf	14,614 sf
	7 PLEX	3	7	21	14,287 sf	42,861 sf
	6A PLEX	2	6	12	12,186 sf	24,372 sf
	6B PLEX	1	6	6	12,587 sf	12,587 sf
		14		**110**	**91,046 sf**	**224,251 sf**

2024-1030 progress	DU	%	NRSF	
1BR-A1	1	2.7%	952 sf	952 sf
1BR-A2	1		1135 sf	1,135 sf
1BR-A3	1		1362 sf	1,362 sf
2BR-B1	24	21.8%	1291 sf	30,984 sf
3BR-C2	47	42.7%	1433 sf	67,351 sf
4BR-D1	36	32.7%	1713 sf	61,668 sf
	110	**100%**	**1486 sf**	**163,452 sf**

Site Acre	**4.12**
Site SF	**179,620 SF**
Residential NRSF	**163,452 SF**
Residential GFA	**224,251 SF**
Residential Amenities GFA	**2,500 SF**
Total	**226,751 SF**

FAR	
ALLOWED	
1.25	
PROVIDED	
TOTAL GROSS SF/SITE SF	1.26

PARKING PROVIDED
217 GARAGES
14 OPEN SPACE
231 TOTAL / 1.93 PARKING RATIO

LSA

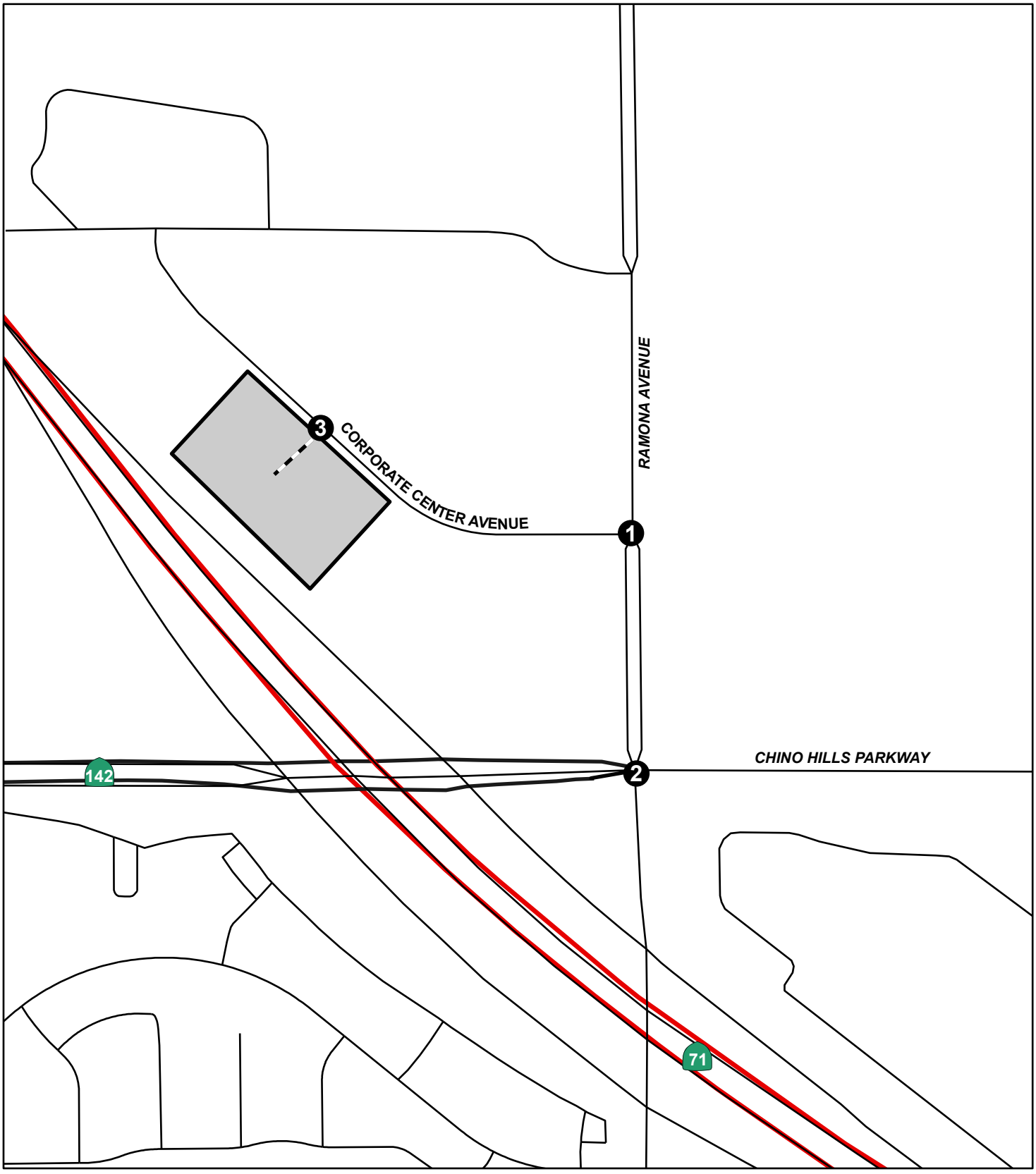
FIGURE 2

Chino Corporate Center Residential Project
Traffic Impact Analysis

Conceptual Site Plan

SOURCE: TCA Architects and BCT Development, October 2024.

P:\2024\20242048 Chino Corporate Center Residential\Traffic\graphics\Site Plan (11/27/2024)



LSA

FIGURE 3

LEGEND

Project Location

Study Intersections

Project Driveway

N

0 180 360

FEET

Chino Corporate Center Residential Project

Traffic Impact Analysis

Study Area Intersections

SOURCE:ESRI Streets, 2021.

P:\2024\20242048 Chino Corporate Center Residential\Traffic\graphics\GIS\Chino Corp Residential.aprx (11/27/2024)

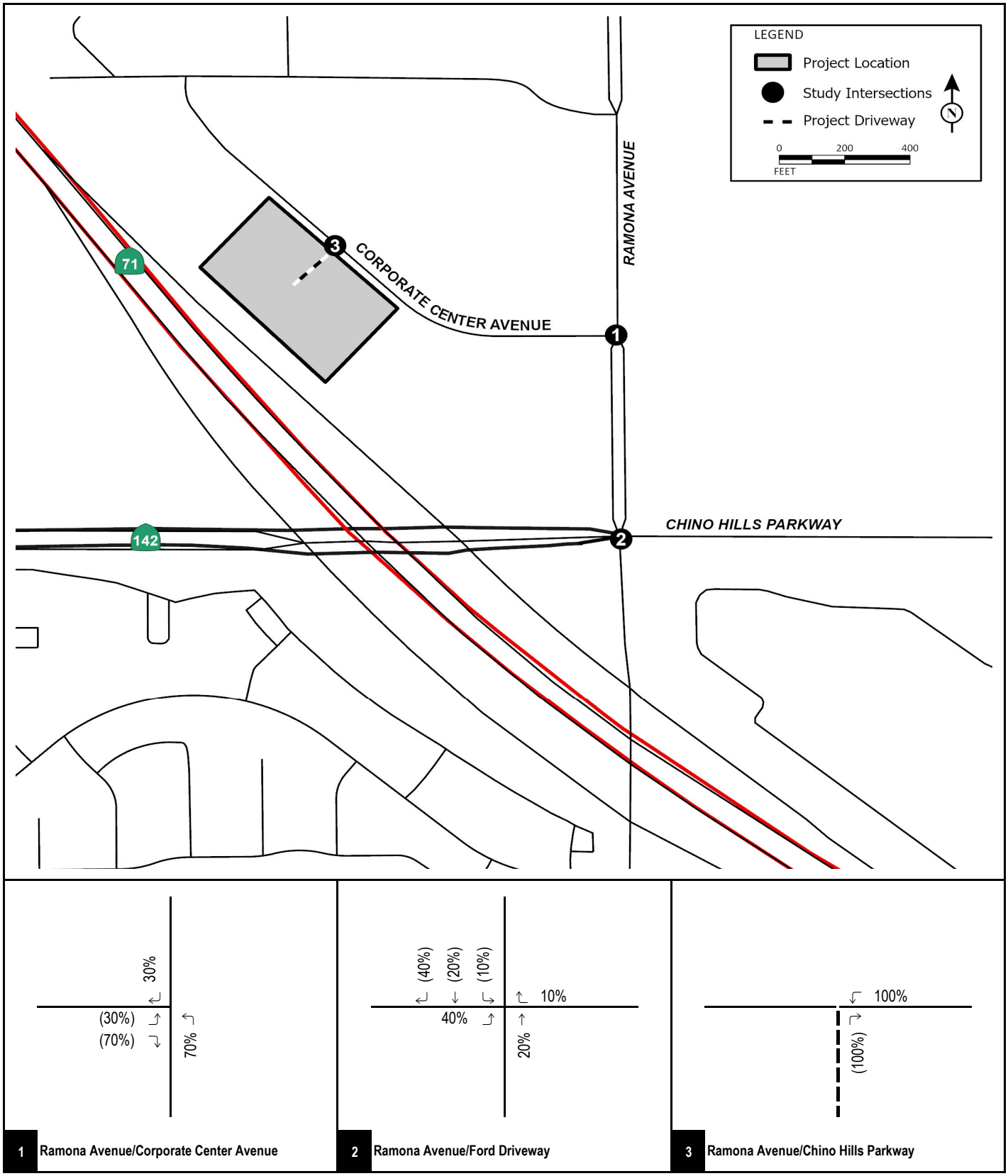


FIGURE 4

LSA

XXX% (YYY%)
Inbound (Outbound) Distribution

Chino Corporate Center Residential Project
Traffic Impact Analysis

Project Trip Distribution

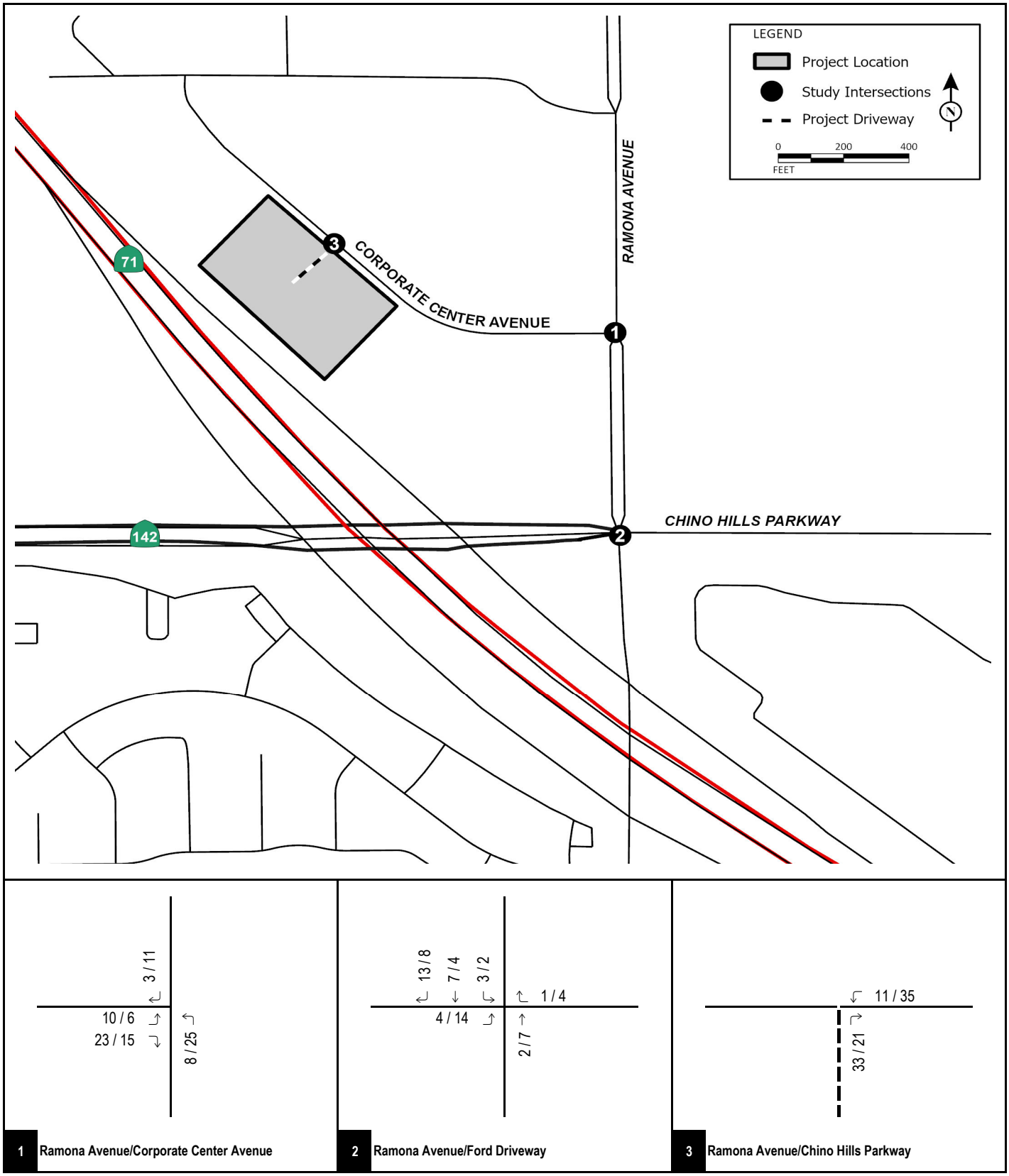


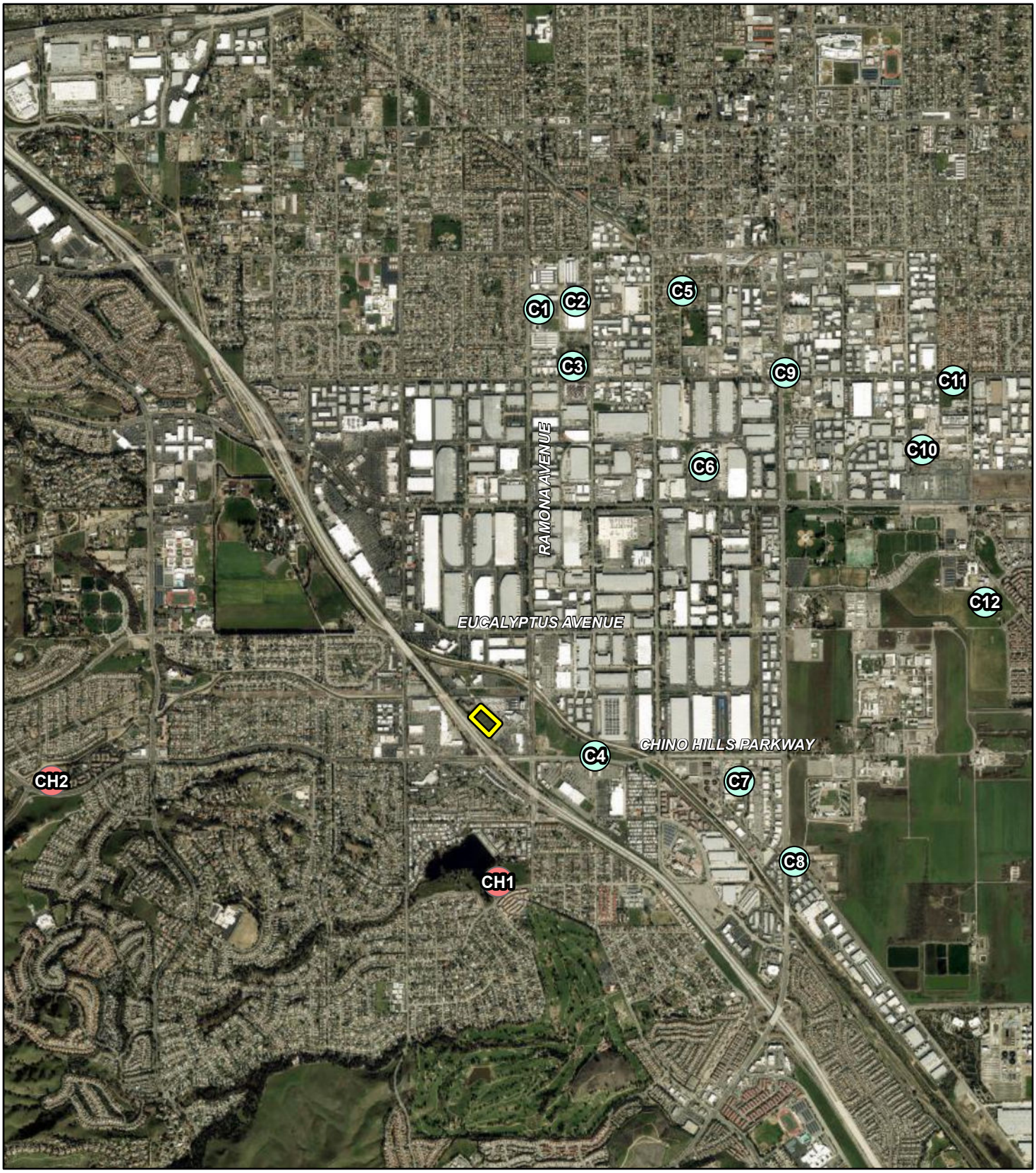
FIGURE 5

LSA

XX / YY
AM / PM Peak Hour Trips

Chino Corporate Center Residential Project
Traffic Impact Analysis

Project Trip Assignment



LSA

LEGEND

Project Location

Cumulative Projects

City of Chino

City of Chino Hills

0 1416 2832

FEET

SOURCE: Google Earth, 2023.

FIGURE 6

Chino Corporate Center Residential Project
Traffic Impact Analysis
Cumulative Project Locations

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ATTACHMENT C

TABLES

Table A: Project Trip Generation
Table B: Cumulative Projects

LSA

Table A - Project Trip Generation

Land Use	Units	A.M. Peak Hour In	A.M. Peak Hour Out	A.M. Peak Hour Total	P.M. Peak Hour In	P.M. Peak Hour Out	P.M. Peak Hour Total	Daily
Multifamily Housing (Low-Rise)	110 DU							
Trips/Unit[1]		0.10	0.30	0.40	0.32	0.19	0.51	6.74
Trip Generation		**11**	**33**	**44**	**35**	**21**	**56**	**741**

Notes:

DU = Dwelling Units

[1] Rates from Institute of Transportation Engineers (ITE) *Trip Generation Manual* , (11th Edition) Land Use 220 - "Multifamily Housing (Low-Rise) Not Close to Rail Transit" , Setting/Location - 'General Urban/Suburban'.

LSA

Table B: Cumulative Projects

ID	Jurisdiction	Project Name/Reference	Address/Location	Project Description	Project Units/Area/Other
C1	City of Chino	PL20-0027	Southeast corner of Ramona Avenue/Danito Court	59,755 square foot office building for the Chino Valley Unified School District	59.755 TSF
C2	City of Chino	PL20-0029	13404 Yorba Avenue	Warehouse	325.3 TSF
C3	City of Chino	Chino Lovett Industrial	13610 Yorba Avenue	Warehouse	298.839 TSF
C4	City of Chino	Chino Creek Apartments	4700 Chino Hills Parkway	A previously approved retail/office converted to Apartments	298 MFDU
C5	City of Chino	PL24-0087	4991 G Street	Single Family Residential	3 SFDU
C6	City of Chino	PL24-0008	5088 Edison Avenue	Industrial Building (General Industrial Zone)	394.230 TSF
C7	City of Chino	PL19-0003	15022 La Palma	Industrial Building (General Industrial Zone)	15.46 TSF
C8	City of Chino	PL18-0047, PL18-0048	Northeast Corner of Central Avenue and El Prado Road	A 4,120 square foot gas station (canopy) with a 3,200 square foot convenience store, an 1,800 square foot quick service restaurant, and 1,540 square foot express car wash	6 VFP gas station; 1.8 TSF quick service restaurant; and 1.54 TSF express car wash with 1 car wash lane.
C9	City of Chino	PL24-0112	13691 Central Avenue	Drive-thru Starbucks	2.262 TSF
C10	City of Chino	PL23-0091	13925 Benson Avenue	Industrial Building Redevelopment	139.5 TSF
C11	City of Chino	Chino Gateway Terminal Project	5835-5885 Schaefer Avenue	Mixed-Use Development with Industrial Warehouse, Food and Beverage uses and Office spaces.	±156.445 TSF industrial warehouse; ±1.735 TSF food and beverage use; 6.253 TSF food and beverage uses; and 2.464 TSF of office.
C12	City of Chino	The Campus at College Park	5985 Eucalyptus Avenue	A three two-story buildings totaling 50,630 square feet of commercial retail, office, and restaurant space, and one single-story 27,000 square foot community church.	50.630 TSF Mixed-Use Buiding; and 27 TSF Community Church
CH1	City of Chino Hills	Rancho Cielito	Northwest corner of Ramona Avenue and Bird Farm Road	Residential Apartment Units	354 MFDU
CH2	City of Chino Hills	Buddhist Temple	Northeast corner of Chino Hills Parkway and Rustic Drive	Temple	21.936 SF

Notes:

SFDU = Single-Family Dwelling Units; MFDU = Multi-Family Dwelling Units; TSF = Thousand Square Feet; VFP = Vehicles Fueling Positions.

APPENDIX B

TRAFFIC COUNTS AND SIGNAL TIMING SHEETS

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Chino
N/S: Ramona Avenue
E/W: Corporate Center Avenue
Weather: Clear

File Name : 01_CHN_Ram_CC AM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

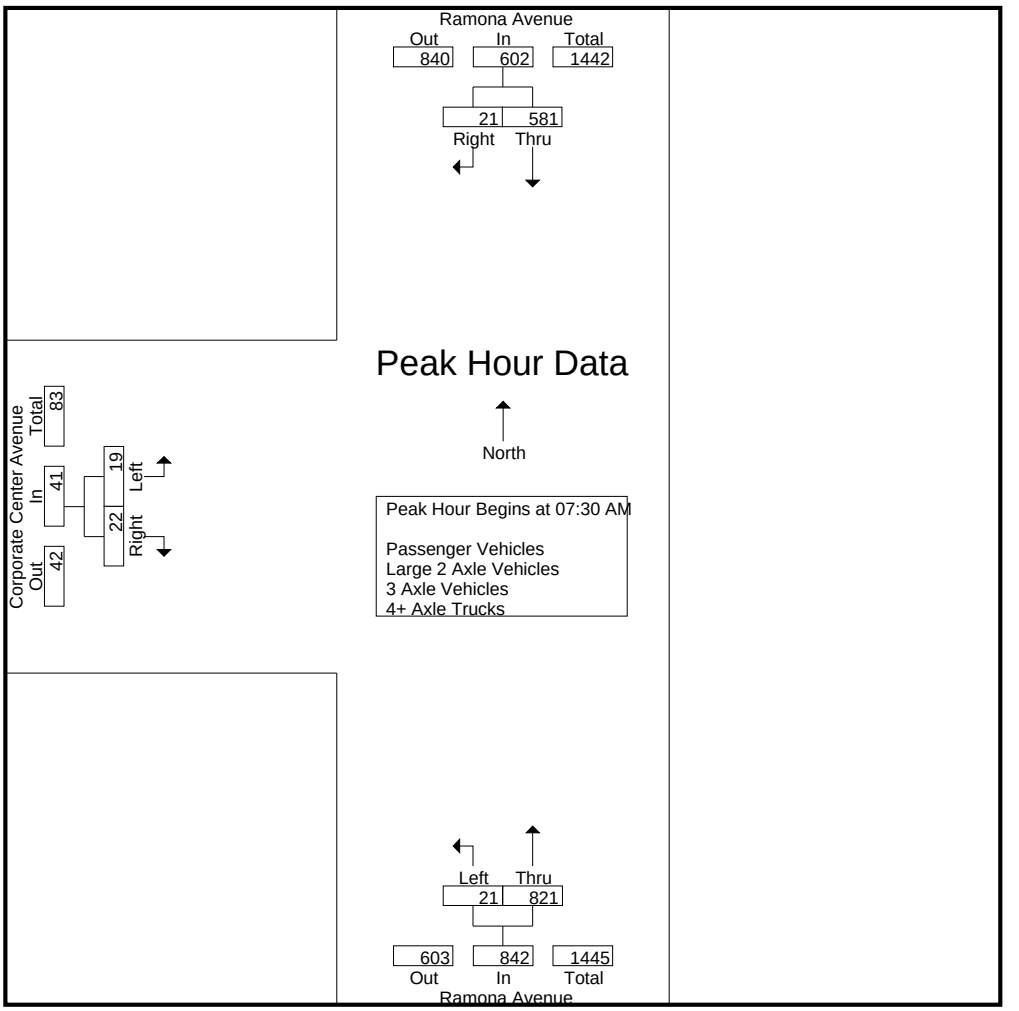
	Ramona Avenue Southbound			Ramona Avenue Northbound			Corporate Center Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
06:00 AM	54	4	58	2	46	48	0	3	3	109
06:15 AM	96	2	98	3	91	94	1	3	4	196
06:30 AM	86	2	88	5	94	99	0	2	2	189
06:45 AM	79	5	84	6	117	123	1	3	4	211
Total	315	13	328	16	348	364	2	11	13	705
07:00 AM	97	8	105	0	127	127	3	1	4	236
07:15 AM	83	1	84	4	148	152	1	2	3	239
07:30 AM	132	3	135	2	175	177	5	9	14	326
07:45 AM	140	3	143	8	234	242	5	2	7	392
Total	452	15	467	14	684	698	14	14	28	1193
08:00 AM	175	12	187	6	228	234	5	4	9	430
08:15 AM	134	3	137	5	184	189	4	7	11	337
08:30 AM	100	7	107	6	175	181	4	2	6	294
08:45 AM	91	5	96	10	196	206	2	0	2	304
Total	500	27	527	27	783	810	15	13	28	1365
Grand Total	1267	55	1322	57	1815	1872	31	38	69	3263
Apprch %	95.8	4.2		3	97		44.9	55.1		
Total %	38.8	1.7	40.5	1.7	55.6	57.4	1	1.2	2.1	
Passenger Vehicles	1182	52	1234	57	1748	1805	29	34	63	3102
% Passenger Vehicles	93.3	94.5	93.3	100	96.3	96.4	93.5	89.5	91.3	95.1
Large 2 Axle Vehicles	34	3	37	0	29	29	2	3	5	71
% Large 2 Axle Vehicles	2.7	5.5	2.8	0	1.6	1.5	6.5	7.9	7.2	2.2
3 Axle Vehicles	9	0	9	0	10	10	0	0	0	19
% 3 Axle Vehicles	0.7	0	0.7	0	0.6	0.5	0	0	0	0.6
4+ Axle Trucks	42	0	42	0	28	28	0	1	1	71
% 4+ Axle Trucks	3.3	0	3.2	0	1.5	1.5	0	2.6	1.4	2.2

	Ramona Avenue Southbound			Ramona Avenue Northbound			Corporate Center Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	132	3	135	2	175	177	**5**	**9**	**14**	326
07:45 AM	140	3	143	**8**	**234**	**242**	5	2	7	392
08:00 AM	**175**	**12**	**187**	6	228	234	5	4	9	**430**
08:15 AM	134	3	137	5	184	189	4	7	11	337
Total Volume	581	21	602	21	821	842	19	22	41	1485
% App. Total	96.5	3.5		2.5	97.5		46.3	53.7		
PHF	.830	.438	.805	.656	.877	.870	.950	.611	.732	.863

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City of Chino
N/S: Ramona Avenue
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File Name : 01_CHN_Ram_CC AM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 2



Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:45 AM			07:30 AM		
+0 mins.	132	3	135	**8**	**234**	**242**	**5**	**9**	**14**
+15 mins.	140	3	143	6	228	234	5	2	7
+30 mins.	**175**	**12**	**187**	5	184	189	5	4	9
+45 mins.	134	3	137	6	175	181	4	7	11
Total Volume	581	21	602	25	821	846	19	22	41
% App. Total	96.5	3.5		3	97		46.3	53.7	
PHF	.830	.438	.805	.781	.877	.874	.950	.611	.732

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Groups Printed- Passenger Vehicles

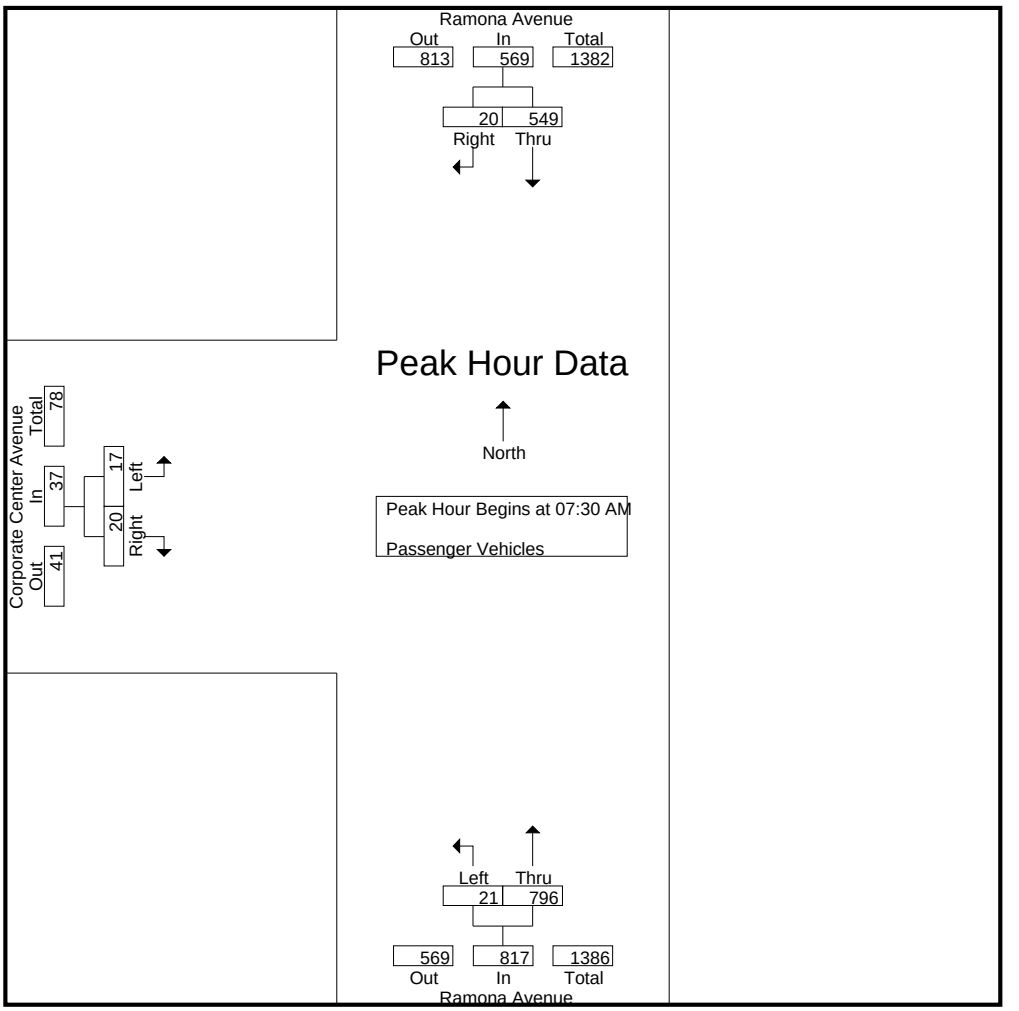
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06:15 AM	92	2	94	3	89	92	1	2	3	189
06:30 AM	76	2	78	5	88	93	0	2	2	173
06:45 AM	72	4	76	6	111	117	1	3	4	197
Total	291	12	303	16	330	346	2	10	12	661
07:00 AM	85	7	92	0	121	121	3	0	3	216
07:15 AM	77	1	78	4	141	145	1	2	3	226
07:30 AM	128	3	131	2	172	174	5	9	14	319
07:45 AM	131	3	134	8	227	235	4	1	5	374
Total	421	14	435	14	661	675	13	12	25	1135
08:00 AM	166	11	177	6	220	226	5	4	9	412
08:15 AM	124	3	127	5	177	182	3	6	9	318
08:30 AM	96	7	103	6	168	174	4	2	6	283
08:45 AM	84	5	89	10	192	202	2	0	2	293
Total	470	26	496	27	757	784	14	12	26	1306
Grand Total	1182	52	1234	57	1748	1805	29	34	63	3102
Apprch %	95.8	4.2		3.2	96.8		46	54		
Total %	38.1	1.7	39.8	1.8	56.4	58.2	0.9	1.1	2	

	Ramona Avenue Southbound			Ramona Avenue Northbound			Corporate Center Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
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07:45 AM	131	3	134	**8**	**227**	**235**	4	1	5	374
08:00 AM	**166**	**11**	**177**	6	220	226	5	4	9	**412**
08:15 AM	124	3	127	5	177	182	3	6	9	318
Total Volume	549	20	569	21	796	817	17	20	37	1423
% App. Total	96.5	3.5		2.6	97.4		45.9	54.1		
PHF	.827	.455	.804	.656	.877	.869	.850	.556	.661	.863

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Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	128	3	131	2	172	174	**5**	**9**	**14**
+15 mins.	131	3	134	**8**	**227**	**235**	4	1	5
+30 mins.	**166**	**11**	**177**	6	220	226	5	4	9
+45 mins.	124	3	127	5	177	182	3	6	9
Total Volume	549	20	569	21	796	817	17	20	37
% App. Total	96.5	3.5		2.6	97.4		45.9	54.1	
PHF	.827	.455	.804	.656	.877	.869	.850	.556	.661

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City of Chino
N/S: Ramona Avenue
E/W: Corporate Center Avenue
Weather: Clear

File Name : 01_CHN_Ram_CC AM
Site Code : 00324922
Start Date : 10/22/2024

Groups Printed- Large 2 Axle Vehicles

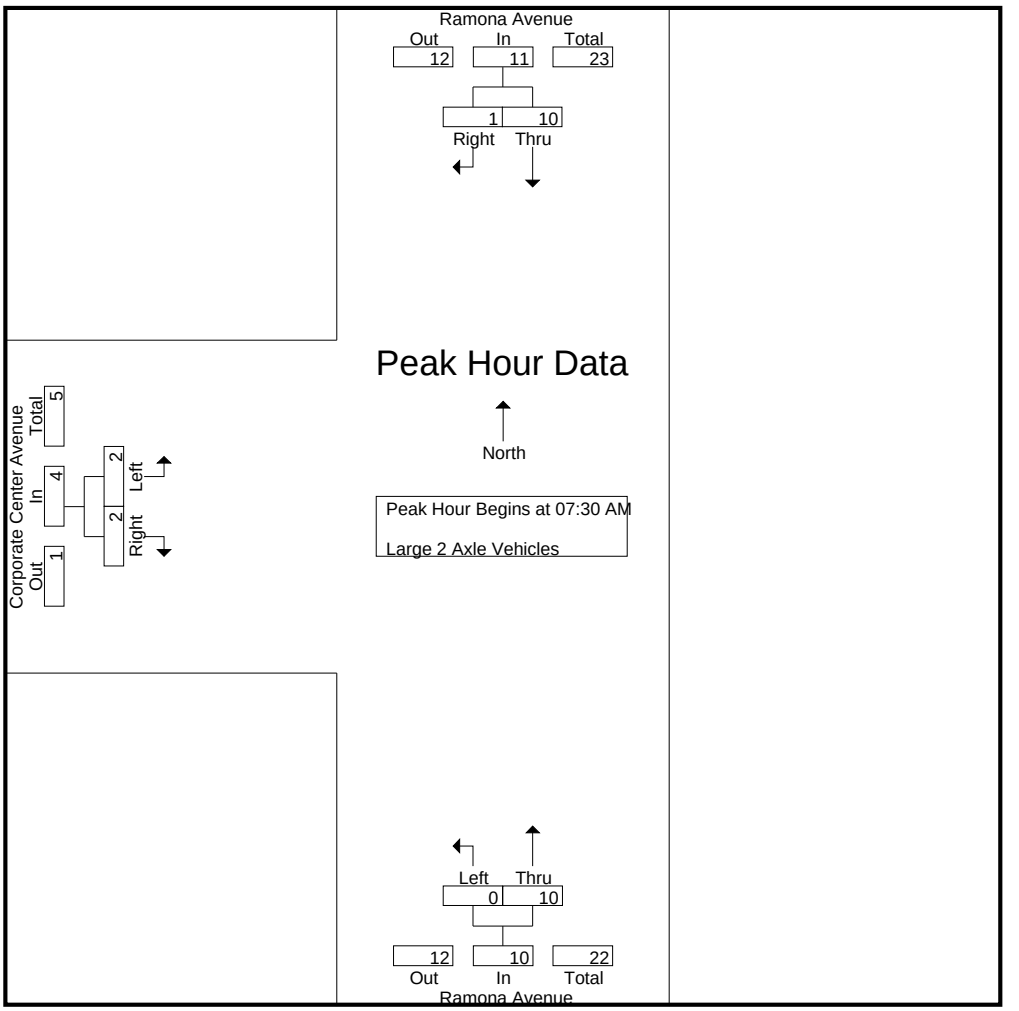
	Ramona Avenue Southbound			Ramona Avenue Northbound			Corporate Center Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
06:00 AM	0	0	0	0	0	0	0	0	0	0
06:15 AM	2	0	2	0	2	2	0	0	0	4
06:30 AM	8	0	8	0	3	3	0	0	0	11
06:45 AM	5	1	6	0	1	1	0	0	0	7
Total	15	1	16	0	6	6	0	0	0	22
07:00 AM	5	1	6	0	2	2	0	1	1	9
07:15 AM	2	0	2	0	4	4	0	0	0	6
07:30 AM	3	0	3	0	2	2	0	0	0	5
07:45 AM	1	0	1	0	3	3	1	1	2	6
Total	11	1	12	0	11	11	1	2	3	26
08:00 AM	1	1	2	0	4	4	0	0	0	6
08:15 AM	5	0	5	0	1	1	1	1	2	8
08:30 AM	1	0	1	0	5	5	0	0	0	6
08:45 AM	1	0	1	0	2	2	0	0	0	3
Total	8	1	9	0	12	12	1	1	2	23
Grand Total	34	3	37	0	29	29	2	3	5	71
Apprch %	91.9	8.1		0	100		40	60		
Total %	47.9	4.2	52.1	0	40.8	40.8	2.8	4.2	7	

	Ramona Avenue Southbound			Ramona Avenue Northbound			Corporate Center Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	3	0	3	0	2	2	0	0	0	5
07:45 AM	1	0	1	0	3	3	**1**	**1**	**2**	6
08:00 AM	1	**1**	2	0	**4**	**4**	0	0	0	6
08:15 AM	**5**	0	**5**	0	1	1	1	1	2	**8**
Total Volume	10	1	11	0	10	10	2	2	4	25
% App. Total	90.9	9.1		0	100		50	50		
PHF	.500	.250	.550	.000	.625	.625	.500	.500	.500	.781

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City of Chino
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Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	3	0	3	0	2	2	0	0	0
+15 mins.	1	0	1	0	3	3	**1**	**1**	**2**
+30 mins.	1	**1**	2	0	**4**	**4**	0	0	0
+45 mins.	**5**	0	**5**	0	1	1	1	1	2
Total Volume	10	1	11	0	10	10	2	2	4
% App. Total	90.9	9.1		0	100		50	50	
PHF	.500	.250	.550	.000	.625	.625	.500	.500	.500

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City of Chino
N/S: Ramona Avenue
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File Name : 01_CHN_Ram_CC AM
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Groups Printed- 3 Axle Vehicles

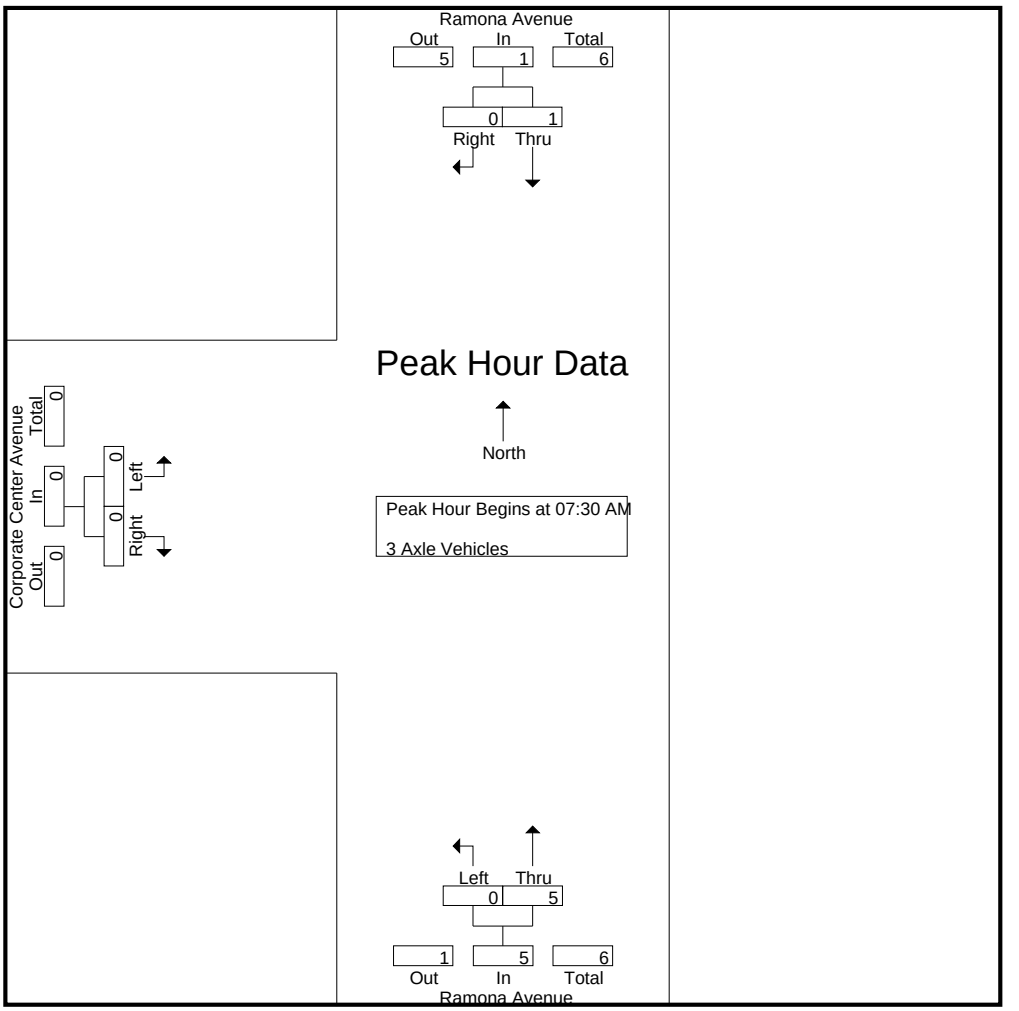
	Ramona Avenue Southbound			Ramona Avenue Northbound			Corporate Center Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
06:00 AM	0	0	0	0	1	1	0	0	0	1
06:15 AM	1	0	1	0	0	0	0	0	0	1
06:30 AM	0	0	0	0	0	0	0	0	0	0
06:45 AM	1	0	1	0	1	1	0	0	0	2
Total	2	0	2	0	2	2	0	0	0	4
07:00 AM	2	0	2	0	1	1	0	0	0	3
07:15 AM	1	0	1	0	1	1	0	0	0	2
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	2	2	0	0	0	2
Total	3	0	3	0	4	4	0	0	0	7
08:00 AM	1	0	1	0	0	0	0	0	0	1
08:15 AM	0	0	0	0	3	3	0	0	0	3
08:30 AM	0	0	0	0	1	1	0	0	0	1
08:45 AM	3	0	3	0	0	0	0	0	0	3
Total	4	0	4	0	4	4	0	0	0	8
Grand Total	9	0	9	0	10	10	0	0	0	19
Apprch %	100	0		0	100		0	0		
Total %	47.4	0	47.4	0	52.6	52.6	0	0	0	

	Ramona Avenue Southbound			Ramona Avenue Northbound			Corporate Center Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	2	2	0	0	0	2
08:00 AM	**1**	0	**1**	0	0	0	0	0	0	1
08:15 AM	0	0	0	0	**3**	**3**	0	0	0	**3**
Total Volume	1	0	1	0	5	5	0	0	0	6
% App. Total	100	0		0	100		0	0		
PHF	.250	.000	.250	.000	.417	.417	.000	.000	.000	.500

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Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	2	2	0	0	0
+30 mins.	**1**	0	**1**	0	0	0	0	0	0
+45 mins.	0	0	0	0	**3**	**3**	0	0	0
Total Volume	1	0	1	0	5	5	0	0	0
% App. Total	100	0		0	100		0	0	
PHF	.250	.000	.250	.000	.417	.417	.000	.000	.000

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City of Chino
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Groups Printed- 4+ Axle Trucks

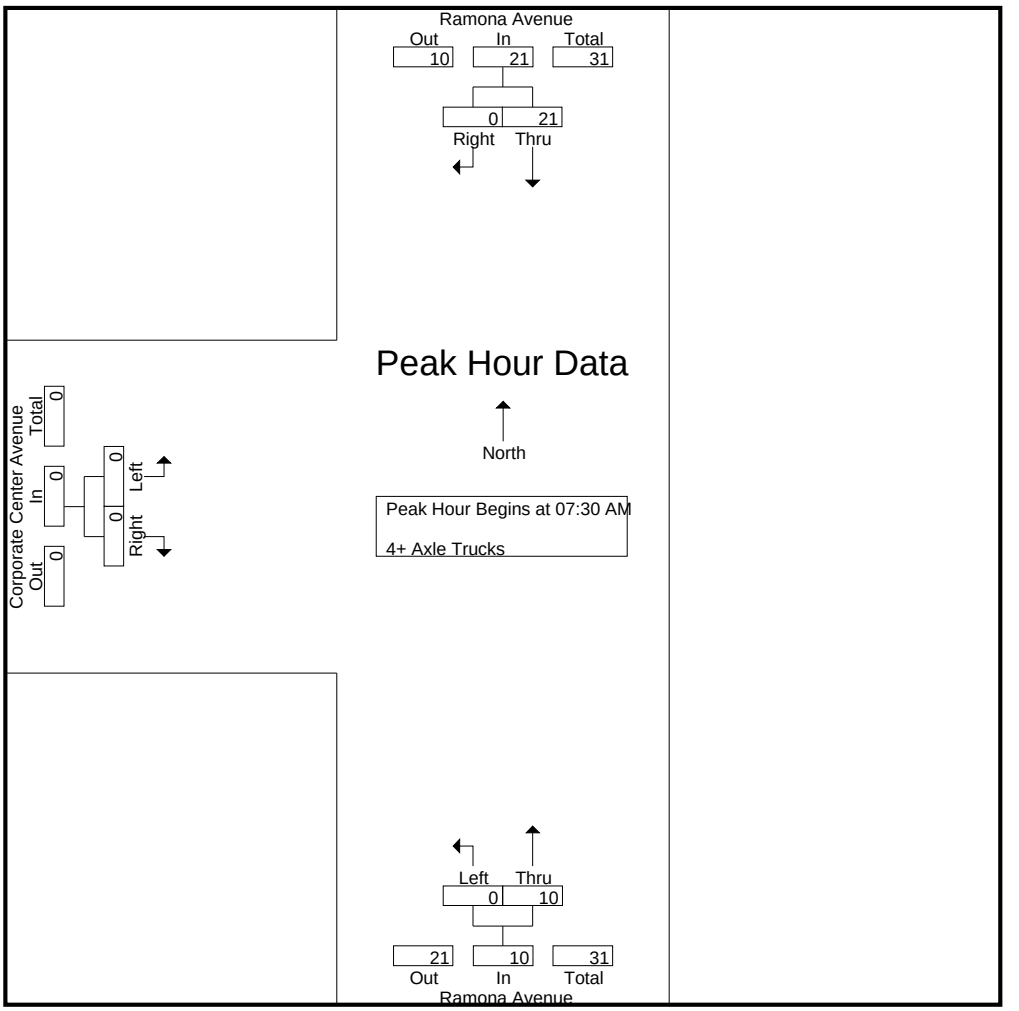
	Ramona Avenue Southbound			Ramona Avenue Northbound			Corporate Center Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
06:00 AM	3	0	3	0	3	3	0	0	0	6
06:15 AM	1	0	1	0	0	0	0	1	1	2
06:30 AM	2	0	2	0	3	3	0	0	0	5
06:45 AM	1	0	1	0	4	4	0	0	0	5
Total	7	0	7	0	10	10	0	1	1	18
07:00 AM	5	0	5	0	3	3	0	0	0	8
07:15 AM	3	0	3	0	2	2	0	0	0	5
07:30 AM	1	0	1	0	1	1	0	0	0	2
07:45 AM	8	0	8	0	2	2	0	0	0	10
Total	17	0	17	0	8	8	0	0	0	25
08:00 AM	7	0	7	0	4	4	0	0	0	11
08:15 AM	5	0	5	0	3	3	0	0	0	8
08:30 AM	3	0	3	0	1	1	0	0	0	4
08:45 AM	3	0	3	0	2	2	0	0	0	5
Total	18	0	18	0	10	10	0	0	0	28
Grand Total	42	0	42	0	28	28	0	1	1	71
Apprch %	100	0		0	100		0	100		
Total %	59.2	0	59.2	0	39.4	39.4	0	1.4	1.4	

	Ramona Avenue Southbound			Ramona Avenue Northbound			Corporate Center Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	1	0	1	0	1	1	0	0	0	2
07:45 AM	**8**	0	**8**	0	2	2	0	0	0	10
08:00 AM	7	0	7	0	**4**	**4**	0	0	0	**11**
08:15 AM	5	0	5	0	3	3	0	0	0	8
Total Volume	21	0	21	0	10	10	0	0	0	31
% App. Total	100	0		0	100		0	0		
PHF	.656	.000	.656	.000	.625	.625	.000	.000	.000	.705

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Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	1	0	1	0	1	1	0	0	0
+15 mins.	**8**	0	**8**	0	2	2	0	0	0
+30 mins.	7	0	7	0	**4**	**4**	0	0	0
+45 mins.	5	0	5	0	3	3	0	0	0
Total Volume	21	0	21	0	10	10	0	0	0
% App. Total	100	0		0	100		0	0	
PHF	.656	.000	.656	.000	.625	.625	.000	.000	.000

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City of Chino
N/S: Ramona Avenue
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Weather: Clear

File Name : 01_CHN_Ram_CC PM
Site Code : 00324922
Start Date : 10/22/2024
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

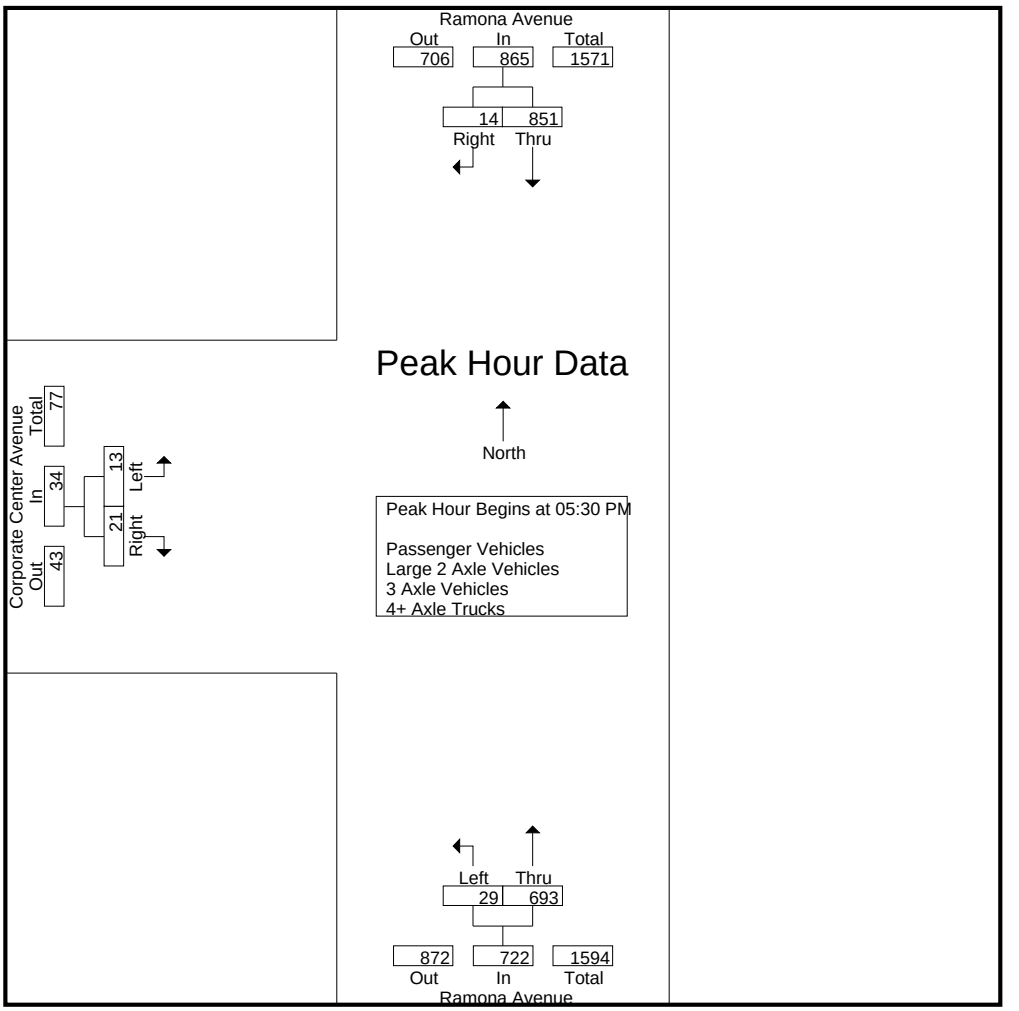
	Ramona Avenue Southbound			Ramona Avenue Northbound			Corporate Center Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	238	3	241	7	162	169	18	7	25	435
04:15 PM	178	5	183	1	153	154	7	7	14	351
04:30 PM	207	4	211	8	145	153	5	3	8	372
04:45 PM	188	6	194	10	134	144	6	16	22	360
Total	811	18	829	26	594	620	36	33	69	1518
05:00 PM	286	3	289	5	127	132	11	3	14	435
05:15 PM	183	2	185	2	178	180	3	5	8	373
05:30 PM	215	5	220	4	145	149	3	3	6	375
05:45 PM	204	4	208	5	177	182	4	8	12	402
Total	888	14	902	16	627	643	21	19	40	1585
06:00 PM	230	1	231	12	210	222	2	7	9	462
06:15 PM	202	4	206	8	161	169	4	3	7	382
06:30 PM	170	6	176	8	177	185	1	5	6	367
06:45 PM	174	5	179	5	144	149	3	6	9	337
Total	776	16	792	33	692	725	10	21	31	1548
Grand Total	2475	48	2523	75	1913	1988	67	73	140	4651
Apprch %	98.1	1.9		3.8	96.2		47.9	52.1		
Total %	53.2	1	54.2	1.6	41.1	42.7	1.4	1.6	3	
Passenger Vehicles	2433	47	2480	74	1865	1939	64	72	136	4555
% Passenger Vehicles	98.3	97.9	98.3	98.7	97.5	97.5	95.5	98.6	97.1	97.9
Large 2 Axle Vehicles	12	1	13	0	13	13	2	1	3	29
% Large 2 Axle Vehicles	0.5	2.1	0.5	0	0.7	0.7	3	1.4	2.1	0.6
3 Axle Vehicles	6	0	6	0	5	5	0	0	0	11
% 3 Axle Vehicles	0.2	0	0.2	0	0.3	0.3	0	0	0	0.2
4+ Axle Trucks	24	0	24	1	30	31	1	0	1	56
% 4+ Axle Trucks	1	0	1	1.3	1.6	1.6	1.5	0	0.7	1.2

	Ramona Avenue Southbound			Ramona Avenue Northbound			Corporate Center Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:30 PM										
05:30 PM	215	**5**	220	4	145	149	3	3	6	375
05:45 PM	204	4	208	5	177	182	**4**	**8**	**12**	402
06:00 PM	**230**	1	**231**	**12**	**210**	**222**	2	7	9	**462**
06:15 PM	202	4	206	8	161	169	4	3	7	382
Total Volume	851	14	865	29	693	722	13	21	34	1621
% App. Total	98.4	1.6		4	96		38.2	61.8		
PHF	.925	.700	.936	.604	.825	.813	.813	.656	.708	.877

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Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:45 PM			04:00 PM		
+0 mins.	**286**	3	**289**	5	177	182	**18**	7	**25**
+15 mins.	183	2	185	**12**	**210**	**222**	7	7	14
+30 mins.	215	**5**	220	8	161	169	5	3	8
+45 mins.	204	4	208	8	177	185	6	**16**	22
Total Volume	888	14	902	33	725	758	36	33	69
% App. Total	98.4	1.6		4.4	95.6		52.2	47.8	
PHF	.776	.700	.780	.688	.863	.854	.500	.516	.690

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Groups Printed- Passenger Vehicles

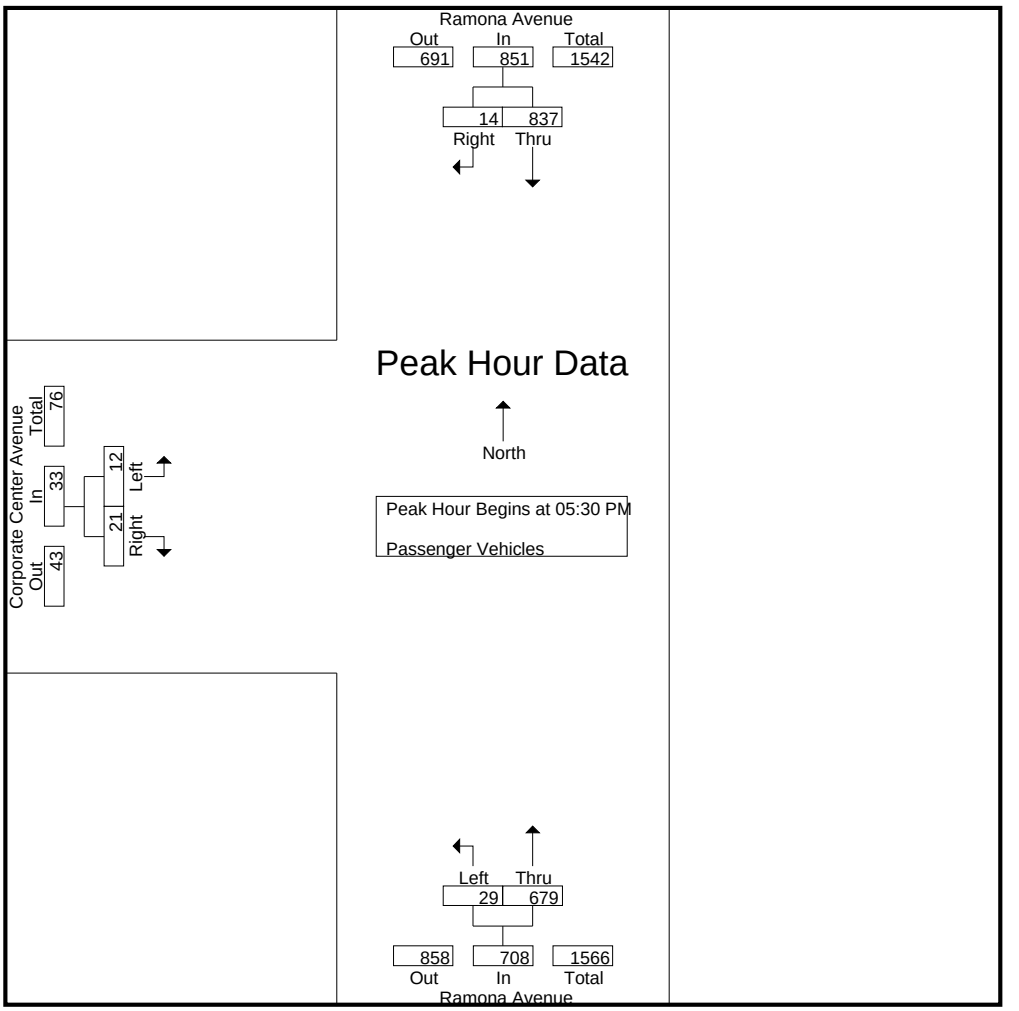
	Ramona Avenue Southbound			Ramona Avenue Northbound			Corporate Center Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	231	3	234	7	157	164	16	7	23	421
04:15 PM	174	5	179	1	150	151	7	7	14	344
04:30 PM	205	4	209	8	140	148	5	3	8	365
04:45 PM	184	5	189	10	128	138	6	15	21	348
Total	794	17	811	26	575	601	34	32	66	1478
05:00 PM	284	3	287	4	122	126	11	3	14	427
05:15 PM	179	2	181	2	172	174	3	5	8	363
05:30 PM	212	5	217	4	142	146	3	3	6	369
05:45 PM	200	4	204	5	170	175	3	8	11	390
Total	875	14	889	15	606	621	20	19	39	1549
06:00 PM	226	1	227	12	208	220	2	7	9	456
06:15 PM	199	4	203	8	159	167	4	3	7	377
06:30 PM	168	6	174	8	175	183	1	5	6	363
06:45 PM	171	5	176	5	142	147	3	6	9	332
Total	764	16	780	33	684	717	10	21	31	1528
Grand Total	2433	47	2480	74	1865	1939	64	72	136	4555
Apprch %	98.1	1.9		3.8	96.2		47.1	52.9		
Total %	53.4	1	54.4	1.6	40.9	42.6	1.4	1.6	3	

	Ramona Avenue Southbound			Ramona Avenue Northbound			Corporate Center Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 05:30 PM to 06:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:30 PM										
05:30 PM	212	**5**	217	4	142	146	3	3	6	369
05:45 PM	200	4	204	5	170	175	3	**8**	**11**	390
06:00 PM	**226**	1	**227**	**12**	**208**	**220**	2	7	9	**456**
06:15 PM	199	4	203	8	159	167	**4**	3	7	377
Total Volume	837	14	851	29	679	708	12	21	33	1592
% App. Total	98.4	1.6		4.1	95.9		36.4	63.6		
PHF	.926	.700	.937	.604	.816	.805	.750	.656	.750	.873

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Peak Hour Analysis From 05:30 PM to 06:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:30 PM			05:30 PM			05:30 PM		
+0 mins.	212	**5**	217	4	142	146	3	3	6
+15 mins.	200	4	204	5	170	175	3	**8**	**11**
+30 mins.	**226**	1	**227**	**12**	**208**	**220**	2	7	9
+45 mins.	199	4	203	8	159	167	**4**	3	7
Total Volume	837	14	851	29	679	708	12	21	33
% App. Total	98.4	1.6		4.1	95.9		36.4	63.6	
PHF	.926	.700	.937	.604	.816	.805	.750	.656	.750

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Groups Printed- Large 2 Axle Vehicles

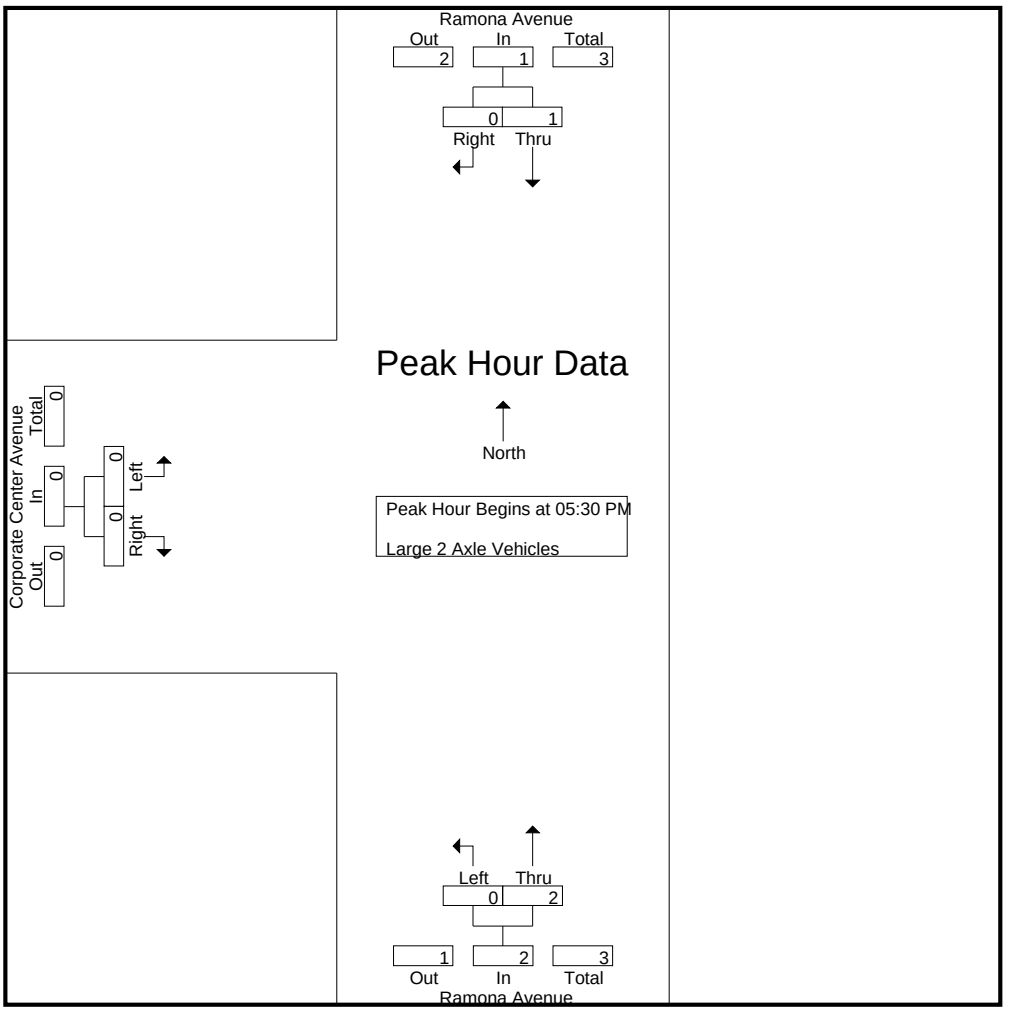
	Ramona Avenue Southbound			Ramona Avenue Northbound			Corporate Center Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	3	0	3	0	3	3	2	0	2	8
04:15 PM	1	0	1	0	2	2	0	0	0	3
04:30 PM	0	0	0	0	1	1	0	0	0	1
04:45 PM	1	1	2	0	0	0	0	1	1	3
Total	5	1	6	0	6	6	2	1	3	15
05:00 PM	2	0	2	0	2	2	0	0	0	4
05:15 PM	3	0	3	0	2	2	0	0	0	5
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	2	2	0	0	0	2
Total	5	0	5	0	6	6	0	0	0	11
06:00 PM	1	0	1	0	0	0	0	0	0	1
06:15 PM	0	0	0	0	0	0	0	0	0	0
06:30 PM	0	0	0	0	0	0	0	0	0	0
06:45 PM	1	0	1	0	1	1	0	0	0	2
Total	2	0	2	0	1	1	0	0	0	3
Grand Total	12	1	13	0	13	13	2	1	3	29
Apprch %	92.3	7.7		0	100		66.7	33.3		
Total %	41.4	3.4	44.8	0	44.8	44.8	6.9	3.4	10.3	

	Ramona Avenue Southbound			Ramona Avenue Northbound			Corporate Center Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 05:30 PM to 06:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:30 PM										
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	**2**	**2**	0	0	0	**2**
06:00 PM	**1**	0	**1**	0	0	0	0	0	0	1
06:15 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	1	0	1	0	2	2	0	0	0	3
% App. Total	100	0		0	100		0	0		
PHF	.250	.000	.250	.000	.250	.250	.000	.000	.000	.375

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City of Chino
N/S: Ramona Avenue
E/W: Corporate Center Avenue
Weather: Clear

File Name : 01_CHN_Ram_CC PM
Site Code : 00324922
Start Date : 10/22/2024
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Peak Hour Analysis From 05:30 PM to 06:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:30 PM			05:30 PM			05:30 PM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	**2**	**2**	0	0	0
+30 mins.	**1**	0	**1**	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	1	0	1	0	2	2	0	0	0
% App. Total	100	0		0	100		0	0	
PHF	.250	.000	.250	.000	.250	.250	.000	.000	.000

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City of Chino
N/S: Ramona Avenue
E/W: Corporate Center Avenue
Weather: Clear

File Name : 01_CHN_Ram_CC PM
Site Code : 00324922
Start Date : 10/22/2024
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Groups Printed- 3 Axle Vehicles

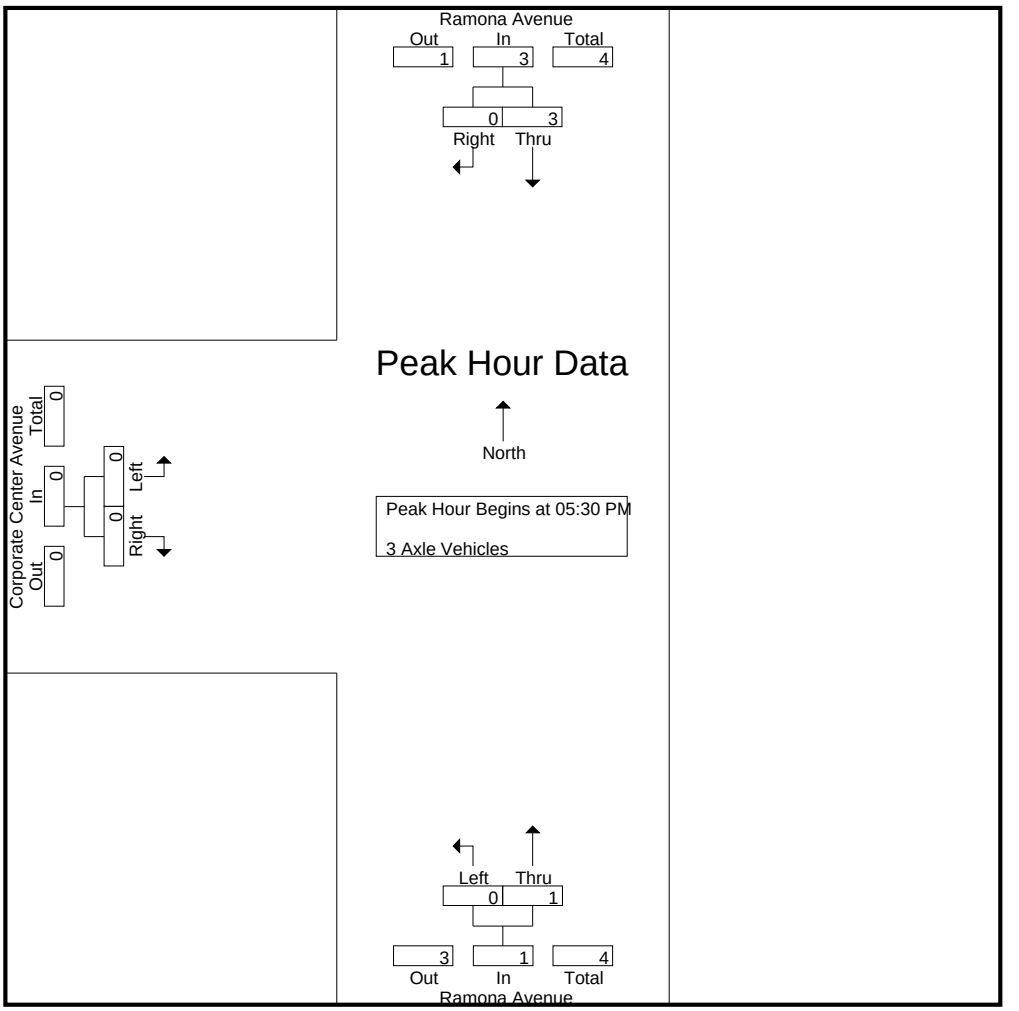
	Ramona Avenue Southbound			Ramona Avenue Northbound			Corporate Center Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	1	1	0	0	0	1
04:15 PM	1	0	1	0	0	0	0	0	0	1
04:30 PM	0	0	0	0	1	1	0	0	0	1
04:45 PM	1	0	1	0	0	0	0	0	0	1
Total	2	0	2	0	2	2	0	0	0	4
05:00 PM	0	0	0	0	2	2	0	0	0	2
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	2	0	2	0	1	1	0	0	0	3
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	2	0	2	0	3	3	0	0	0	5
06:00 PM	0	0	0	0	0	0	0	0	0	0
06:15 PM	1	0	1	0	0	0	0	0	0	1
06:30 PM	1	0	1	0	0	0	0	0	0	1
06:45 PM	0	0	0	0	0	0	0	0	0	0
Total	2	0	2	0	0	0	0	0	0	2
Grand Total	6	0	6	0	5	5	0	0	0	11
Apprch %	100	0		0	100		0	0		
Total %	54.5	0	54.5	0	45.5	45.5	0	0	0	

	Ramona Avenue Southbound			Ramona Avenue Northbound			Corporate Center Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 05:30 PM to 06:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:30 PM										
05:30 PM	**2**	0	**2**	0	**1**	**1**	0	0	0	**3**
05:45 PM	0	0	0	0	0	0	0	0	0	0
06:00 PM	0	0	0	0	0	0	0	0	0	0
06:15 PM	1	0	1	0	0	0	0	0	0	1
Total Volume	3	0	3	0	1	1	0	0	0	4
% App. Total	100	0		0	100		0	0		
PHF	.375	.000	.375	.000	.250	.250	.000	.000	.000	.333

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City of Chino
N/S: Ramona Avenue
E/W: Corporate Center Avenue
Weather: Clear

File Name : 01_CHN_Ram_CC PM
Site Code : 00324922
Start Date : 10/22/2024
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Peak Hour Analysis From 05:30 PM to 06:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:30 PM			05:30 PM			05:30 PM		
+0 mins.	**2**	0	**2**	0	**1**	**1**	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	1	0	1	0	0	0	0	0	0
Total Volume	3	0	3	0	1	1	0	0	0
% App. Total	100	0		0	100		0	0	
PHF	.375	.000	.375	.000	.250	.250	.000	.000	.000

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City of Chino
N/S: Ramona Avenue
E/W: Corporate Center Avenue
Weather: Clear

File Name : 01_CHN_Ram_CC PM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

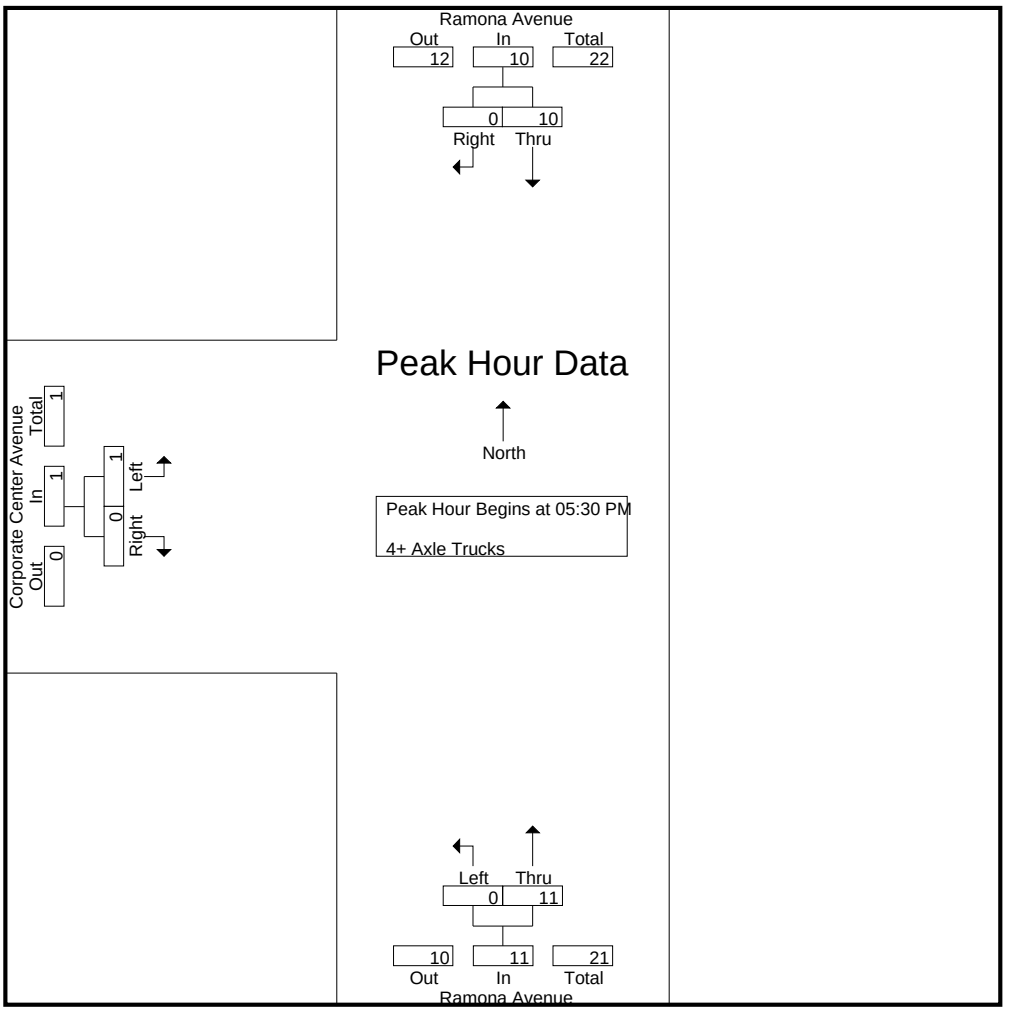
	Ramona Avenue Southbound			Ramona Avenue Northbound			Corporate Center Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	4	0	4	0	1	1	0	0	0	5
04:15 PM	2	0	2	0	1	1	0	0	0	3
04:30 PM	2	0	2	0	3	3	0	0	0	5
04:45 PM	2	0	2	0	6	6	0	0	0	8
Total	10	0	10	0	11	11	0	0	0	21
05:00 PM	0	0	0	1	1	2	0	0	0	2
05:15 PM	1	0	1	0	4	4	0	0	0	5
05:30 PM	1	0	1	0	2	2	0	0	0	3
05:45 PM	4	0	4	0	5	5	1	0	1	10
Total	6	0	6	1	12	13	1	0	1	20
06:00 PM	3	0	3	0	2	2	0	0	0	5
06:15 PM	2	0	2	0	2	2	0	0	0	4
06:30 PM	1	0	1	0	2	2	0	0	0	3
06:45 PM	2	0	2	0	1	1	0	0	0	3
Total	8	0	8	0	7	7	0	0	0	15
Grand Total	24	0	24	1	30	31	1	0	1	56
Apprch %	100	0		3.2	96.8		100	0		
Total %	42.9	0	42.9	1.8	53.6	55.4	1.8	0	1.8	

	Ramona Avenue Southbound			Ramona Avenue Northbound			Corporate Center Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 05:30 PM to 06:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:30 PM										
05:30 PM	1	0	1	0	2	2	0	0	0	3
05:45 PM	**4**	0	**4**	0	**5**	**5**	**1**	0	**1**	**10**
06:00 PM	3	0	3	0	2	2	0	0	0	5
06:15 PM	2	0	2	0	2	2	0	0	0	4
Total Volume	10	0	10	0	11	11	1	0	1	22
% App. Total	100	0		0	100		100	0		
PHF	.625	.000	.625	.000	.550	.550	.250	.000	.250	.550

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City of Chino
N/S: Ramona Avenue
E/W: Corporate Center Avenue
Weather: Clear

File Name : 01_CHN_Ram_CC PM
Site Code : 00324922
Start Date : 10/22/2024
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Peak Hour Analysis From 05:30 PM to 06:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:30 PM			05:30 PM			05:30 PM		
+0 mins.	1	0	1	0	2	2	0	0	0
+15 mins.	**4**	0	**4**	0	**5**	**5**	**1**	0	**1**
+30 mins.	3	0	3	0	2	2	0	0	0
+45 mins.	2	0	2	0	2	2	0	0	0
Total Volume	10	0	10	0	11	11	1	0	1
% App. Total	100	0		0	100		100	0	
PHF	.625	.000	.625	.000	.550	.550	.250	.000	.250

Location: Chino
N/S: Ramona Avenue
E/W: Corporate Center Avenue

Date: 10/22/2024
Day: Tuesday

PEDESTRIANS

	North Leg Ramona Avenue	East Leg Dead End	South Leg Ramona Avenue	West Leg Corporate Center Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
6:00 AM	0	0	0	0	0
6:15 AM	0	0	0	1	1
6:30 AM	0	0	0	0	0
6:45 AM	0	0	0	1	1
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	3	3
7:30 AM	0	0	0	1	1
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	2	2
8:15 AM	0	0	0	1	1
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	9	9

	North Leg Ramona Avenue	East Leg Dead End	South Leg Ramona Avenue	West Leg Corporate Center Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	1	1
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	3	3
5:15 PM	0	0	0	1	1
5:30 PM	0	0	0	1	1
5:45 PM	0	0	0	0	0
6:00 PM	0	0	2	1	3
6:15 PM	0	0	0	0	0
6:30 PM	0	0	3	0	3
6:45 PM	0	0	2	0	2
TOTAL VOLUMES:	0	0	7	7	14

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Location: Chino
N/S: Ramona Avenue
E/W: Corporate Center Avenue

Date: 10/22/2024
Day: Tuesday

BICYCLES

	Southbound Ramona Avenue			Westbound Dead End			Northbound Ramona Avenue			Eastbound Corporate Center Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0	0	0	3	0	0	0	0	3

	Southbound Ramona Avenue			Westbound Dead End			Northbound Ramona Avenue			Eastbound Corporate Center Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
4:30 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	4	0	0	0	0	0	0	0	0	0	0	4

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Ford Driveway
Weather: Clear

File Name : 02_CHN_Ram_Ford AM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

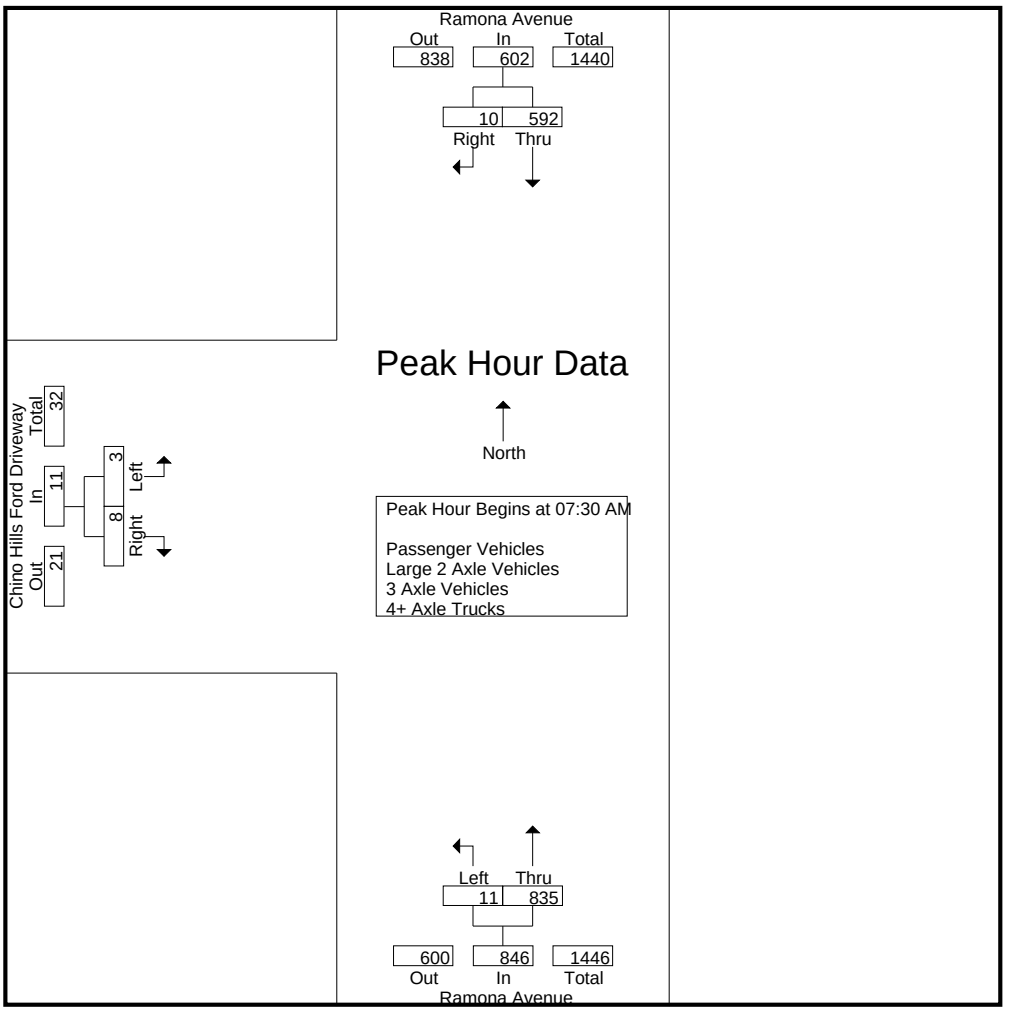
	Ramona Avenue Southbound			Ramona Avenue Northbound			Chino Hills Ford Driveway Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
06:00 AM	57	0	57	0	49	49	0	0	0	106
06:15 AM	99	0	99	0	92	92	0	0	0	191
06:30 AM	88	0	88	0	100	100	0	0	0	188
06:45 AM	84	0	84	1	125	126	1	0	1	211
Total	328	0	328	1	366	367	1	0	1	696
07:00 AM	94	2	96	2	125	127	1	0	1	224
07:15 AM	87	1	88	4	151	155	1	3	4	247
07:30 AM	139	1	140	4	171	175	2	1	3	318
07:45 AM	141	3	144	0	242	242	1	3	4	390
Total	461	7	468	10	689	699	5	7	12	1179
08:00 AM	176	3	179	2	234	236	0	0	0	415
08:15 AM	136	3	139	5	188	193	0	4	4	336
08:30 AM	101	1	102	2	184	186	0	1	1	289
08:45 AM	91	1	92	8	199	207	0	2	2	301
Total	504	8	512	17	805	822	0	7	7	1341
Grand Total	1293	15	1308	28	1860	1888	6	14	20	3216
Apprch %	98.9	1.1		1.5	98.5		30	70		
Total %	40.2	0.5	40.7	0.9	57.8	58.7	0.2	0.4	0.6	
Passenger Vehicles	1209	15	1224	27	1791	1818	5	14	19	3061
% Passenger Vehicles	93.5	100	93.6	96.4	96.3	96.3	83.3	100	95	95.2
Large 2 Axle Vehicles	34	0	34	1	32	33	1	0	1	68
% Large 2 Axle Vehicles	2.6	0	2.6	3.6	1.7	1.7	16.7	0	5	2.1
3 Axle Vehicles	7	0	7	0	8	8	0	0	0	15
% 3 Axle Vehicles	0.5	0	0.5	0	0.4	0.4	0	0	0	0.5
4+ Axle Trucks	43	0	43	0	29	29	0	0	0	72
% 4+ Axle Trucks	3.3	0	3.3	0	1.6	1.5	0	0	0	2.2

	Ramona Avenue Southbound			Ramona Avenue Northbound			Chino Hills Ford Driveway Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	139	1	140	4	171	175	**2**	1	3	318
07:45 AM	141	**3**	144	0	**242**	**242**	1	3	**4**	390
08:00 AM	**176**	3	**179**	2	234	236	0	0	0	**415**
08:15 AM	136	3	139	**5**	188	193	0	**4**	4	336
Total Volume	592	10	602	11	835	846	3	8	11	1459
% App. Total	98.3	1.7		1.3	98.7		27.3	72.7		
PHF	.841	.833	.841	.550	.863	.874	.375	.500	.688	.879

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Ford Driveway
Weather: Clear

File Name : 02_CHN_Ram_Ford AM
Site Code : 00324922
Start Date : 10/22/2024
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Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:45 AM			07:00 AM		
+0 mins.	139	1	140	0	**242**	**242**	1	0	1
+15 mins.	141	**3**	144	2	234	236	1	**3**	**4**
+30 mins.	**176**	3	**179**	**5**	188	193	**2**	1	3
+45 mins.	136	3	139	2	184	186	1	3	4
Total Volume	592	10	602	9	848	857	5	7	12
% App. Total	98.3	1.7		1.1	98.9		41.7	58.3	
PHF	.841	.833	.841	.450	.876	.885	.625	.583	.750

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Ford Driveway
Weather: Clear

File Name : 02_CHN_Ram_Ford AM
Site Code : 00324922
Start Date : 10/22/2024
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Groups Printed- Passenger Vehicles

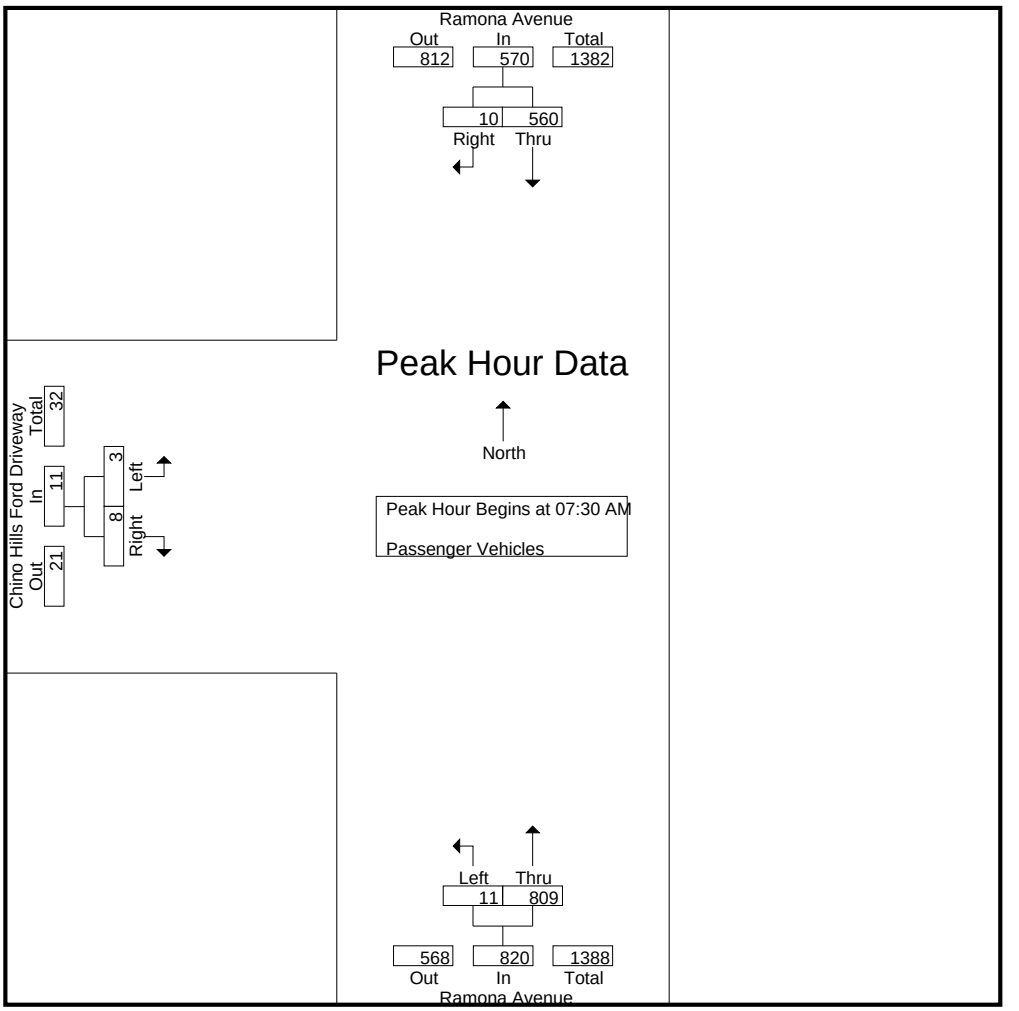
	Ramona Avenue Southbound			Ramona Avenue Northbound			Chino Hills Ford Driveway Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
06:00 AM	54	0	54	0	45	45	0	0	0	99
06:15 AM	94	0	94	0	89	89	0	0	0	183
06:30 AM	79	0	79	0	94	94	0	0	0	173
06:45 AM	78	0	78	1	119	120	0	0	0	198
Total	305	0	305	1	347	348	0	0	0	653
07:00 AM	81	2	83	2	120	122	1	0	1	206
07:15 AM	82	1	83	3	144	147	1	3	4	234
07:30 AM	136	1	137	4	168	172	2	1	3	312
07:45 AM	131	3	134	0	235	235	1	3	4	373
Total	430	7	437	9	667	676	5	7	12	1125
08:00 AM	167	3	170	2	226	228	0	0	0	398
08:15 AM	126	3	129	5	180	185	0	4	4	318
08:30 AM	97	1	98	2	175	177	0	1	1	276
08:45 AM	84	1	85	8	196	204	0	2	2	291
Total	474	8	482	17	777	794	0	7	7	1283
Grand Total	1209	15	1224	27	1791	1818	5	14	19	3061
Apprch %	98.8	1.2		1.5	98.5		26.3	73.7		
Total %	39.5	0.5	40	0.9	58.5	59.4	0.2	0.5	0.6	

	Ramona Avenue Southbound			Ramona Avenue Northbound			Chino Hills Ford Driveway Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	136	1	137	4	168	172	**2**	1	3	312
07:45 AM	131	**3**	134	0	**235**	**235**	1	3	**4**	373
08:00 AM	**167**	3	**170**	2	226	228	0	0	0	**398**
08:15 AM	126	3	129	**5**	180	185	0	**4**	4	318
Total Volume	560	10	570	11	809	820	3	8	11	1401
% App. Total	98.2	1.8		1.3	98.7		27.3	72.7		
PHF	.838	.833	.838	.550	.861	.872	.375	.500	.688	.880

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Ford Driveway
Weather: Clear

File Name : 02_CHN_Ram_Ford AM
Site Code : 00324922
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Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	136	1	137	4	168	172	**2**	1	3
+15 mins.	131	**3**	134	0	**235**	**235**	1	3	**4**
+30 mins.	**167**	3	**170**	2	226	228	0	0	0
+45 mins.	126	3	129	**5**	180	185	0	**4**	4
Total Volume	560	10	570	11	809	820	3	8	11
% App. Total	98.2	1.8		1.3	98.7		27.3	72.7	
PHF	.838	.833	.838	.550	.861	.872	.375	.500	.688

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Ford Driveway
Weather: Clear

File Name : 02_CHN_Ram_Ford AM
Site Code : 00324922
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Page No : 1

Groups Printed- Large 2 Axle Vehicles

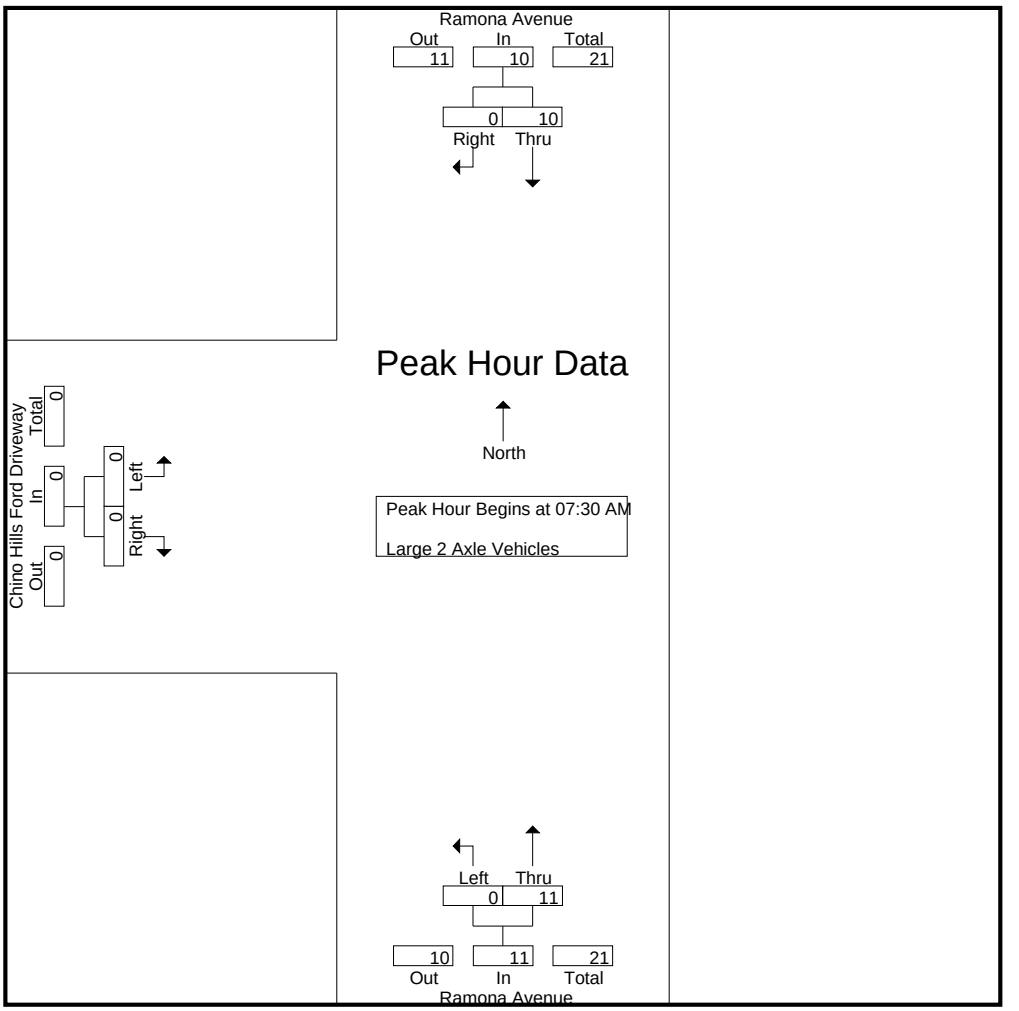
	Ramona Avenue Southbound			Ramona Avenue Northbound			Chino Hills Ford Driveway Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
06:00 AM	1	0	1	0	0	0	0	0	0	1
06:15 AM	2	0	2	0	3	3	0	0	0	5
06:30 AM	7	0	7	0	3	3	0	0	0	10
06:45 AM	4	0	4	0	1	1	1	0	1	6
Total	14	0	14	0	7	7	1	0	1	22
07:00 AM	6	0	6	0	2	2	0	0	0	8
07:15 AM	2	0	2	1	4	5	0	0	0	7
07:30 AM	2	0	2	0	2	2	0	0	0	4
07:45 AM	2	0	2	0	3	3	0	0	0	5
Total	12	0	12	1	11	12	0	0	0	24
08:00 AM	1	0	1	0	4	4	0	0	0	5
08:15 AM	5	0	5	0	2	2	0	0	0	7
08:30 AM	1	0	1	0	7	7	0	0	0	8
08:45 AM	1	0	1	0	1	1	0	0	0	2
Total	8	0	8	0	14	14	0	0	0	22
Grand Total	34	0	34	1	32	33	1	0	1	68
Apprch %	100	0		3	97		100	0		
Total %	50	0	50	1.5	47.1	48.5	1.5	0	1.5	

	Ramona Avenue Southbound			Ramona Avenue Northbound			Chino Hills Ford Driveway Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	2	0	2	0	2	2	0	0	0	4
07:45 AM	2	0	2	0	3	3	0	0	0	5
08:00 AM	1	0	1	0	**4**	**4**	0	0	0	5
08:15 AM	**5**	0	**5**	0	2	2	0	0	0	**7**
Total Volume	10	0	10	0	11	11	0	0	0	21
% App. Total	100	0		0	100		0	0		
PHF	.500	.000	.500	.000	.688	.688	.000	.000	.000	.750

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Ford Driveway
Weather: Clear

File Name : 02_CHN_Ram_Ford AM
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Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	2	0	2	0	2	2	0	0	0
+15 mins.	2	0	2	0	3	3	0	0	0
+30 mins.	1	0	1	0	**4**	**4**	0	0	0
+45 mins.	**5**	0	**5**	0	2	2	0	0	0
Total Volume	10	0	10	0	11	11	0	0	0
% App. Total	100	0		0	100		0	0	
PHF	.500	.000	.500	.000	.688	.688	.000	.000	.000

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Ford Driveway
Weather: Clear

File Name : 02_CHN_Ram_Ford AM
Site Code : 00324922
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Groups Printed- 3 Axle Vehicles

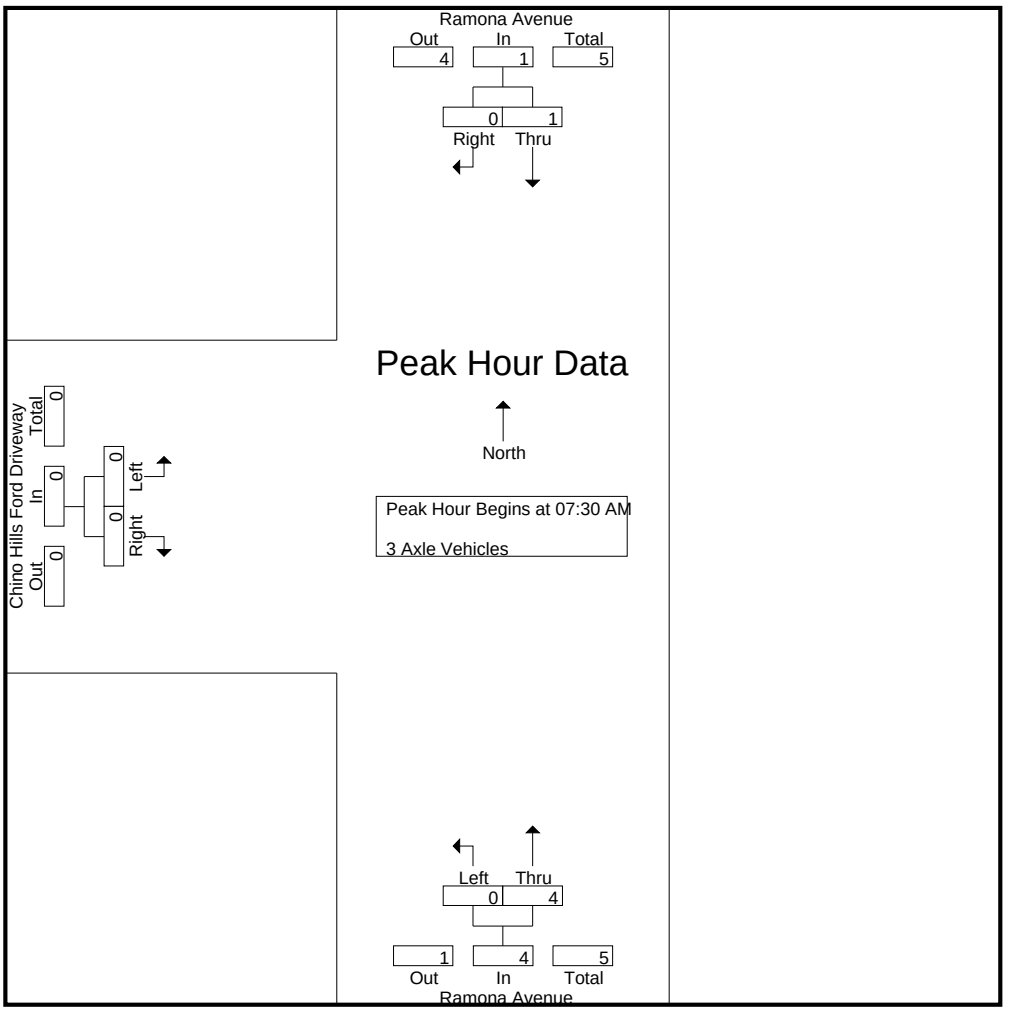
	Ramona Avenue Southbound			Ramona Avenue Northbound			Chino Hills Ford Driveway Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
06:00 AM	0	0	0	0	1	1	0	0	0	1
06:15 AM	0	0	0	0	0	0	0	0	0	0
06:30 AM	0	0	0	0	0	0	0	0	0	0
06:45 AM	0	0	0	0	1	1	0	0	0	1
Total	0	0	0	0	2	2	0	0	0	2
07:00 AM	2	0	2	0	0	0	0	0	0	2
07:15 AM	1	0	1	0	1	1	0	0	0	2
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	2	2	0	0	0	2
Total	3	0	3	0	3	3	0	0	0	6
08:00 AM	1	0	1	0	0	0	0	0	0	1
08:15 AM	0	0	0	0	2	2	0	0	0	2
08:30 AM	0	0	0	0	1	1	0	0	0	1
08:45 AM	3	0	3	0	0	0	0	0	0	3
Total	4	0	4	0	3	3	0	0	0	7
Grand Total	7	0	7	0	8	8	0	0	0	15
Apprch %	100	0		0	100		0	0		
Total %	46.7	0	46.7	0	53.3	53.3	0	0	0	

	Ramona Avenue Southbound			Ramona Avenue Northbound			Chino Hills Ford Driveway Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	**2**	**2**	0	0	0	**2**
08:00 AM	**1**	0	**1**	0	0	0	0	0	0	1
08:15 AM	0	0	0	0	2	2	0	0	0	2
Total Volume	1	0	1	0	4	4	0	0	0	5
% App. Total	100	0		0	100		0	0		
PHF	.250	.000	.250	.000	.500	.500	.000	.000	.000	.625

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City of Chino
N/S: Ramona Avenue
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Weather: Clear

File Name : 02_CHN_Ram_Ford AM
Site Code : 00324922
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Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	**2**	**2**	0	0	0
+30 mins.	**1**	0	**1**	0	0	0	0	0	0
+45 mins.	0	0	0	0	2	2	0	0	0
Total Volume	1	0	1	0	4	4	0	0	0
% App. Total	100	0		0	100		0	0	
PHF	.250	.000	.250	.000	.500	.500	.000	.000	.000

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Ford Driveway
Weather: Clear

File Name : 02_CHN_Ram_Ford AM
Site Code : 00324922
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Groups Printed- 4+ Axle Trucks

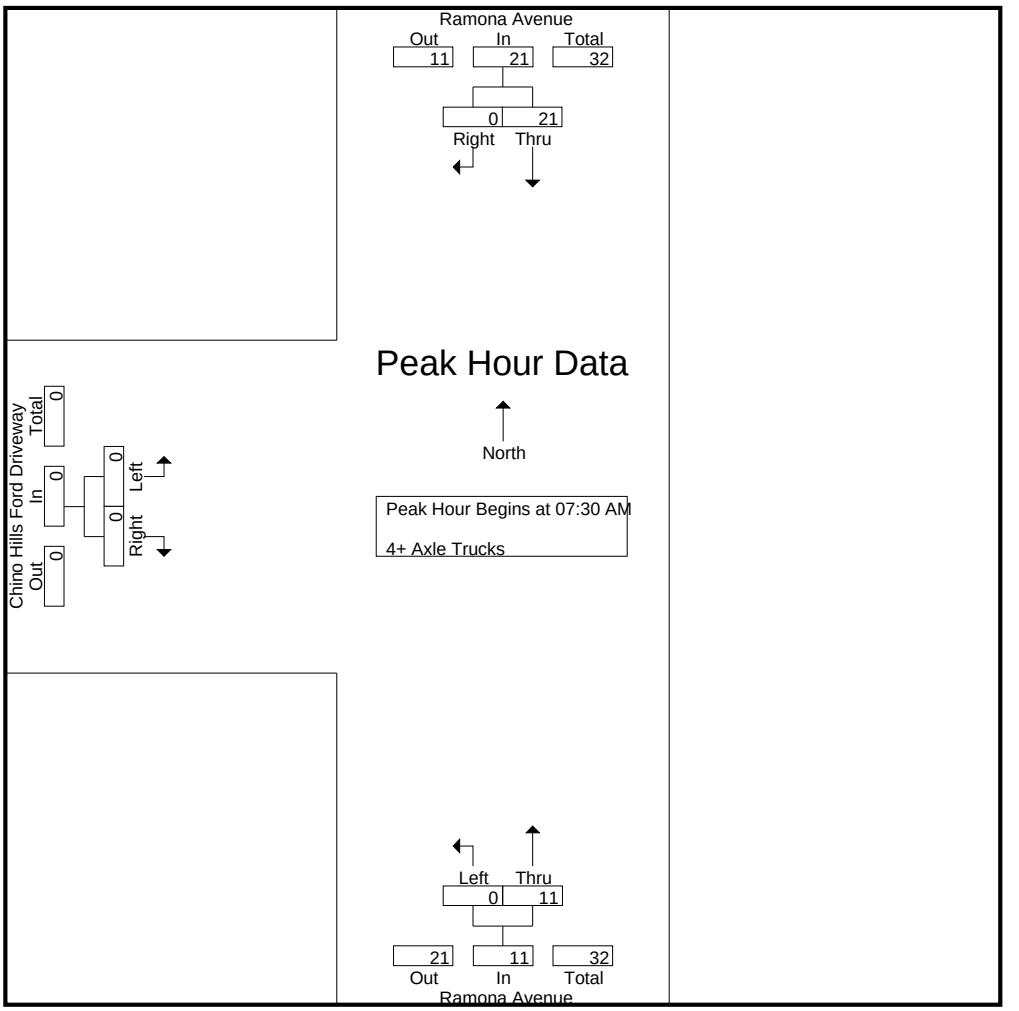
	Ramona Avenue Southbound			Ramona Avenue Northbound			Chino Hills Ford Driveway Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
06:00 AM	2	0	2	0	3	3	0	0	0	5
06:15 AM	3	0	3	0	0	0	0	0	0	3
06:30 AM	2	0	2	0	3	3	0	0	0	5
06:45 AM	2	0	2	0	4	4	0	0	0	6
Total	9	0	9	0	10	10	0	0	0	19
07:00 AM	5	0	5	0	3	3	0	0	0	8
07:15 AM	2	0	2	0	2	2	0	0	0	4
07:30 AM	1	0	1	0	1	1	0	0	0	2
07:45 AM	8	0	8	0	2	2	0	0	0	10
Total	16	0	16	0	8	8	0	0	0	24
08:00 AM	7	0	7	0	4	4	0	0	0	11
08:15 AM	5	0	5	0	4	4	0	0	0	9
08:30 AM	3	0	3	0	1	1	0	0	0	4
08:45 AM	3	0	3	0	2	2	0	0	0	5
Total	18	0	18	0	11	11	0	0	0	29
Grand Total	43	0	43	0	29	29	0	0	0	72
Apprch %	100	0		0	100		0	0		
Total %	59.7	0	59.7	0	40.3	40.3	0	0	0	

	Ramona Avenue Southbound			Ramona Avenue Northbound			Chino Hills Ford Driveway Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	1	0	1	0	1	1	0	0	0	2
07:45 AM	**8**	0	**8**	0	2	2	0	0	0	10
08:00 AM	7	0	7	0	**4**	**4**	0	0	0	**11**
08:15 AM	5	0	5	0	4	4	0	0	0	9
Total Volume	21	0	21	0	11	11	0	0	0	32
% App. Total	100	0		0	100		0	0		
PHF	.656	.000	.656	.000	.688	.688	.000	.000	.000	.727

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File Name : 02_CHN_Ram_Ford AM
Site Code : 00324922
Start Date : 10/22/2024
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Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	1	0	1	0	1	1	0	0	0
+15 mins.	**8**	0	**8**	0	2	2	0	0	0
+30 mins.	7	0	7	0	**4**	**4**	0	0	0
+45 mins.	5	0	5	0	4	4	0	0	0
Total Volume	21	0	21	0	11	11	0	0	0
% App. Total	100	0		0	100		0	0	
PHF	.656	.000	.656	.000	.688	.688	.000	.000	.000

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Ford Driveway
Weather: Clear

File Name : 02_CHN_Ram_Ford PM
Site Code : 00324922
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

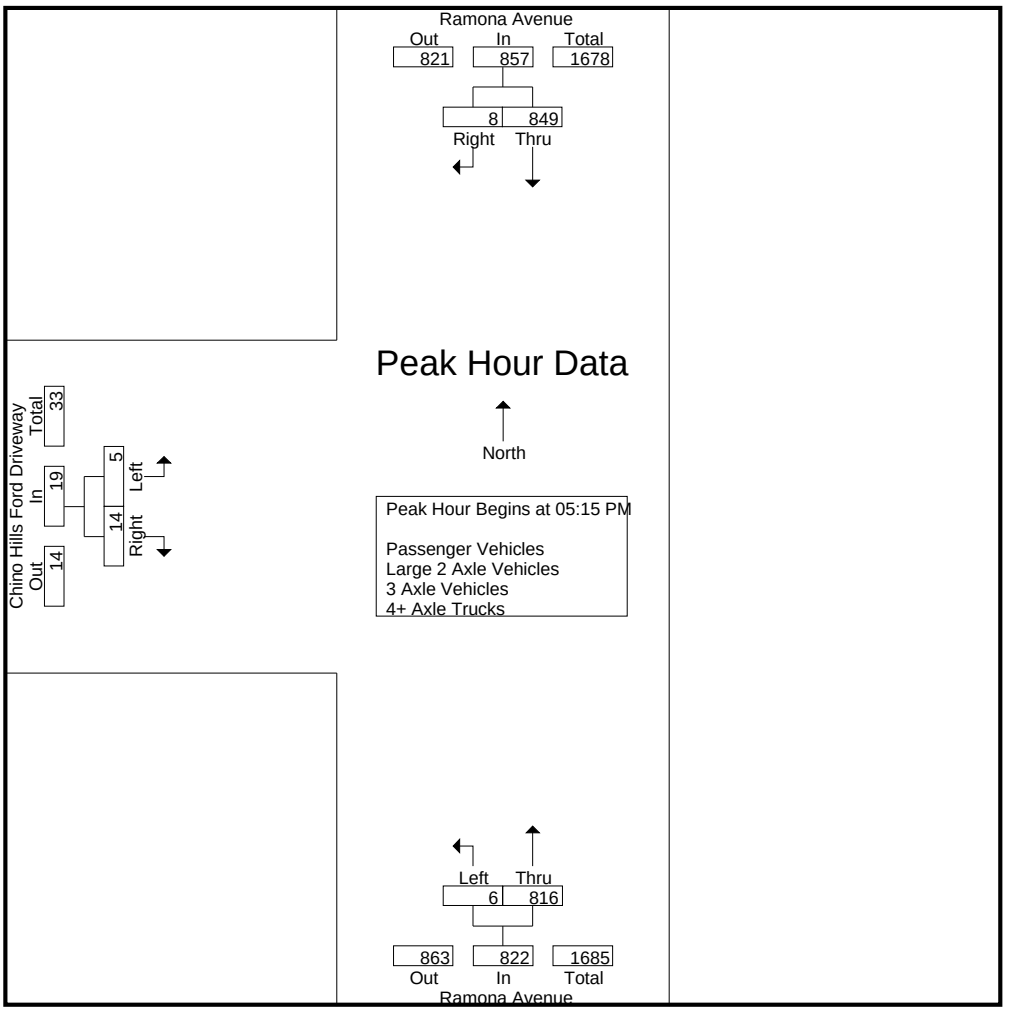
	Ramona Avenue Southbound			Ramona Avenue Northbound			Chino Hills Ford Driveway Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	238	4	242	3	180	183	1	2	3	428
04:15 PM	181	4	185	0	173	173	3	6	9	367
04:30 PM	206	0	206	3	169	172	0	2	2	380
04:45 PM	203	2	205	0	163	163	0	2	2	370
Total	828	10	838	6	685	691	4	12	16	1545
05:00 PM	274	4	278	0	159	159	1	4	5	442
05:15 PM	191	2	193	2	204	206	0	5	5	404
05:30 PM	211	2	213	1	179	180	2	3	5	398
05:45 PM	210	3	213	2	222	224	0	4	4	441
Total	886	11	897	5	764	769	3	16	19	1685
06:00 PM	237	1	238	1	211	212	3	2	5	455
06:15 PM	201	2	203	0	160	160	2	2	4	367
06:30 PM	179	0	179	0	179	179	1	6	7	365
06:45 PM	182	0	182	0	146	146	1	1	2	330
Total	799	3	802	1	696	697	7	11	18	1517
Grand Total	2513	24	2537	12	2145	2157	14	39	53	4747
Apprch %	99.1	0.9		0.6	99.4		26.4	73.6		
Total %	52.9	0.5	53.4	0.3	45.2	45.4	0.3	0.8	1.1	
Passenger Vehicles	2475	22	2497	12	2097	2109	14	37	51	4657
% Passenger Vehicles	98.5	91.7	98.4	100	97.8	97.8	100	94.9	96.2	98.1
Large 2 Axle Vehicles	10	2	12	0	12	12	0	2	2	26
% Large 2 Axle Vehicles	0.4	8.3	0.5	0	0.6	0.6	0	5.1	3.8	0.5
3 Axle Vehicles	4	0	4	0	7	7	0	0	0	11
% 3 Axle Vehicles	0.2	0	0.2	0	0.3	0.3	0	0	0	0.2
4+ Axle Trucks	24	0	24	0	29	29	0	0	0	53
% 4+ Axle Trucks	1	0	0.9	0	1.4	1.3	0	0	0	1.1

	Ramona Avenue Southbound			Ramona Avenue Northbound			Chino Hills Ford Driveway Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:15 PM										
05:15 PM	191	2	193	**2**	204	206	0	**5**	**5**	404
05:30 PM	211	2	213	1	179	180	2	3	5	398
05:45 PM	210	**3**	213	2	**222**	**224**	0	4	4	441
06:00 PM	**237**	1	**238**	1	211	212	**3**	2	5	**455**
Total Volume	849	8	857	6	816	822	5	14	19	1698
% App. Total	99.1	0.9		0.7	99.3		26.3	73.7		
PHF	.896	.667	.900	.750	.919	.917	.417	.700	.950	.933

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File Name : 02_CHN_Ram_Ford PM
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Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:15 PM			05:45 PM		
+0 mins.	**274**	**4**	**278**	**2**	204	206	0	4	4
+15 mins.	191	2	193	1	179	180	**3**	2	5
+30 mins.	211	2	213	2	**222**	**224**	2	2	4
+45 mins.	210	3	213	1	211	212	1	**6**	**7**
Total Volume	886	11	897	6	816	822	6	14	20
% App. Total	98.8	1.2		0.7	99.3		30	70	
PHF	.808	.688	.807	.750	.919	.917	.500	.583	.714

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File Name : 02_CHN_Ram_Ford PM
Site Code : 00324922
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Groups Printed- Passenger Vehicles

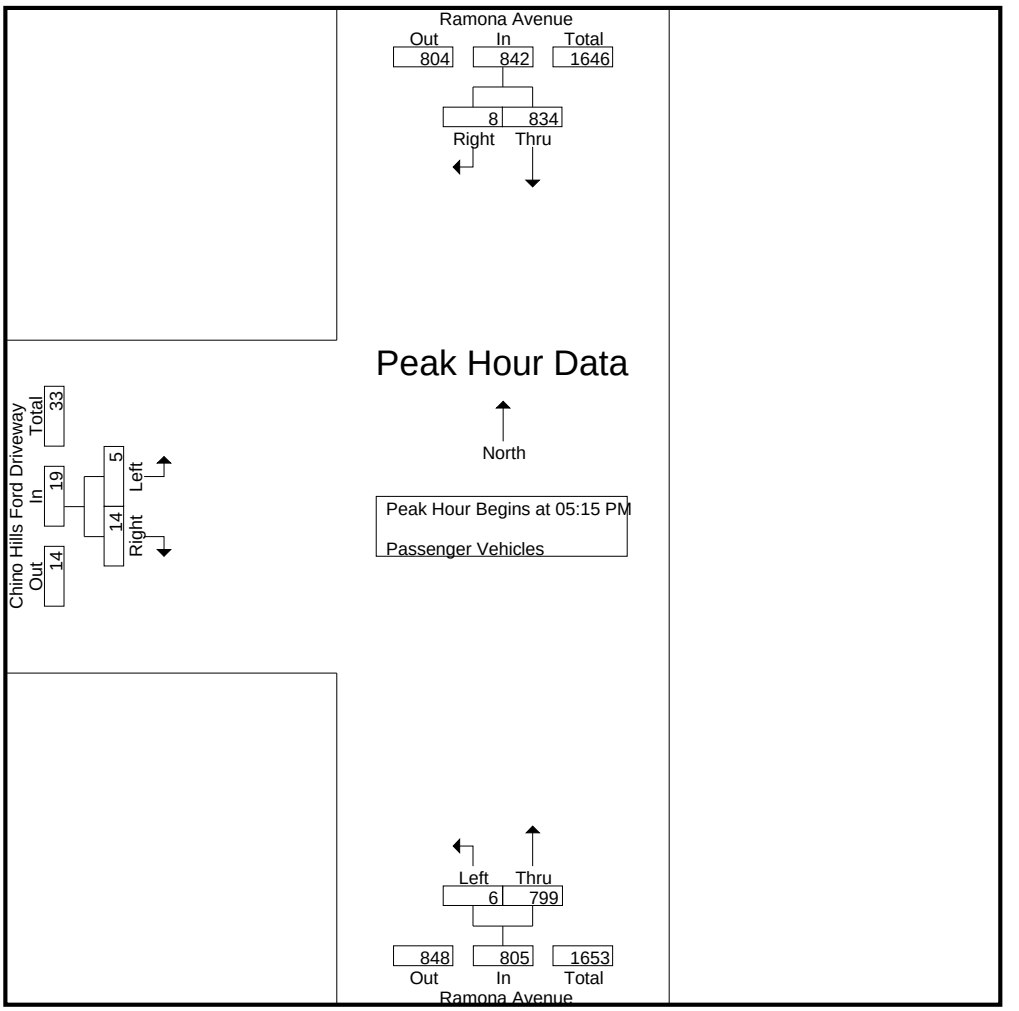
	Ramona Avenue Southbound			Ramona Avenue Northbound			Chino Hills Ford Driveway Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	232	4	236	3	175	178	1	2	3	417
04:15 PM	178	4	182	0	170	170	3	6	9	361
04:30 PM	204	0	204	3	164	167	0	2	2	373
04:45 PM	199	1	200	0	157	157	0	2	2	359
Total	813	9	822	6	666	672	4	12	16	1510
05:00 PM	273	3	276	0	153	153	1	2	3	432
05:15 PM	187	2	189	2	199	201	0	5	5	395
05:30 PM	208	2	210	1	176	177	2	3	5	392
05:45 PM	206	3	209	2	215	217	0	4	4	430
Total	874	10	884	5	743	748	3	14	17	1649
06:00 PM	233	1	234	1	209	210	3	2	5	449
06:15 PM	198	2	200	0	158	158	2	2	4	362
06:30 PM	177	0	177	0	177	177	1	6	7	361
06:45 PM	180	0	180	0	144	144	1	1	2	326
Total	788	3	791	1	688	689	7	11	18	1498
Grand Total	2475	22	2497	12	2097	2109	14	37	51	4657
Apprch %	99.1	0.9		0.6	99.4		27.5	72.5		
Total %	53.1	0.5	53.6	0.3	45	45.3	0.3	0.8	1.1	

	Ramona Avenue Southbound			Ramona Avenue Northbound			Chino Hills Ford Driveway Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 05:15 PM to 06:00 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:15 PM										
05:15 PM	187	2	189	**2**	199	201	0	**5**	**5**	395
05:30 PM	208	2	210	1	176	177	2	3	5	392
05:45 PM	206	**3**	209	2	**215**	**217**	0	4	4	430
06:00 PM	**233**	1	**234**	1	209	210	**3**	2	5	**449**
Total Volume	834	8	842	6	799	805	5	14	19	1666
% App. Total	99	1		0.7	99.3		26.3	73.7		
PHF	.895	.667	.900	.750	.929	.927	.417	.700	.950	.928

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Peak Hour Analysis From 05:15 PM to 06:00 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:15 PM			05:15 PM			05:15 PM		
+0 mins.	187	2	189	**2**	199	201	0	**5**	**5**
+15 mins.	208	2	210	1	176	177	2	3	5
+30 mins.	206	**3**	209	2	**215**	**217**	0	4	4
+45 mins.	**233**	1	**234**	1	209	210	**3**	2	5
Total Volume	834	8	842	6	799	805	5	14	19
% App. Total	99	1		0.7	99.3		26.3	73.7	
PHF	.895	.667	.900	.750	.929	.927	.417	.700	.950

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Groups Printed- Large 2 Axle Vehicles

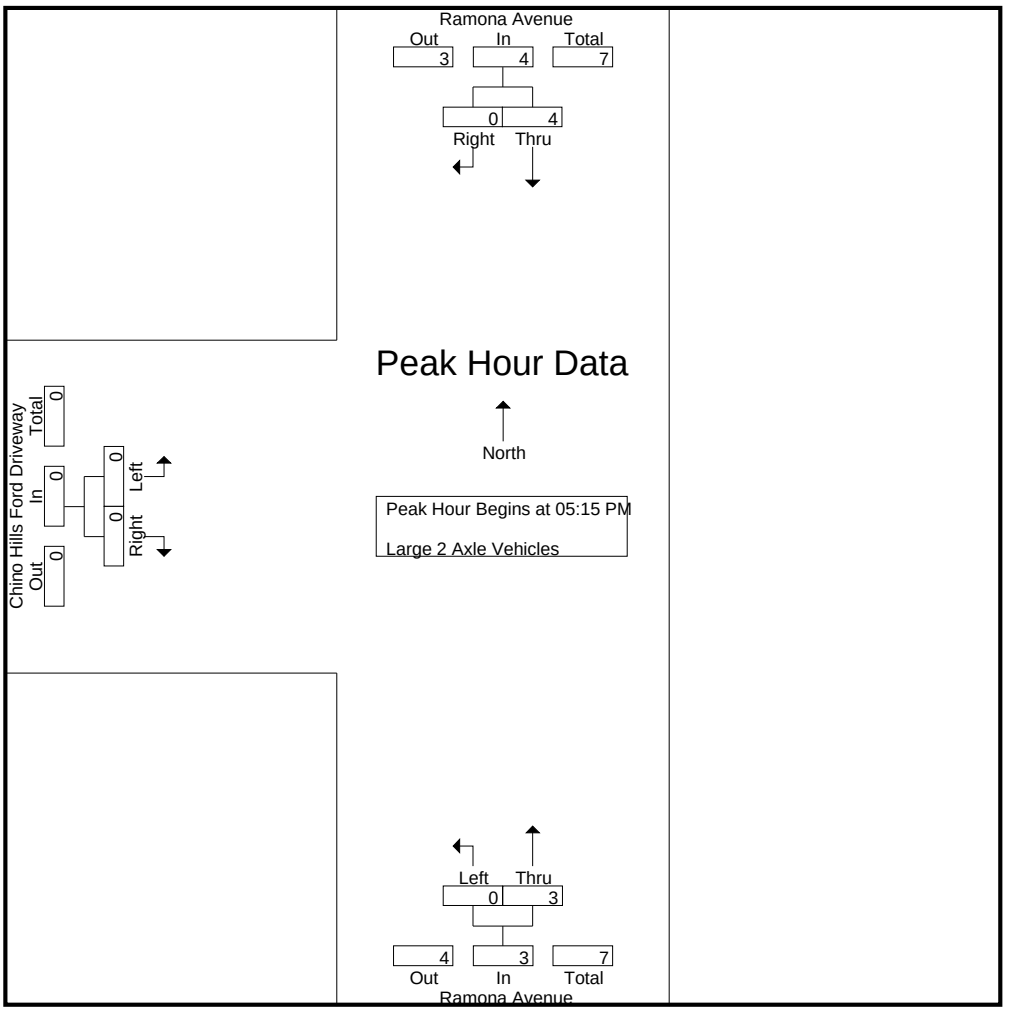
	Ramona Avenue Southbound			Ramona Avenue Northbound			Chino Hills Ford Driveway Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	2	0	2	0	3	3	0	0	0	5
04:15 PM	1	0	1	0	2	2	0	0	0	3
04:30 PM	0	0	0	0	1	1	0	0	0	1
04:45 PM	2	1	3	0	0	0	0	0	0	3
Total	5	1	6	0	6	6	0	0	0	12
05:00 PM	1	1	2	0	2	2	0	2	2	6
05:15 PM	3	0	3	0	1	1	0	0	0	4
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	2	2	0	0	0	2
Total	4	1	5	0	5	5	0	2	2	12
06:00 PM	1	0	1	0	0	0	0	0	0	1
06:15 PM	0	0	0	0	0	0	0	0	0	0
06:30 PM	0	0	0	0	0	0	0	0	0	0
06:45 PM	0	0	0	0	1	1	0	0	0	1
Total	1	0	1	0	1	1	0	0	0	2
Grand Total	10	2	12	0	12	12	0	2	2	26
Apprch %	83.3	16.7		0	100		0	100		
Total %	38.5	7.7	46.2	0	46.2	46.2	0	7.7	7.7	

	Ramona Avenue Southbound			Ramona Avenue Northbound			Chino Hills Ford Driveway Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 05:15 PM to 06:00 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:15 PM										
05:15 PM	**3**	0	**3**	0	1	1	0	0	0	**4**
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	**2**	**2**	0	0	0	2
06:00 PM	1	0	1	0	0	0	0	0	0	1
Total Volume	4	0	4	0	3	3	0	0	0	7
% App. Total	100	0		0	100		0	0		
PHF	.333	.000	.333	.000	.375	.375	.000	.000	.000	.438

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Ford Driveway
Weather: Clear

File Name : 02_CHN_Ram_Ford PM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 2



Peak Hour Analysis From 05:15 PM to 06:00 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:15 PM			05:15 PM			05:15 PM		
+0 mins.	**3**	0	**3**	0	1	1	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	**2**	**2**	0	0	0
+45 mins.	1	0	1	0	0	0	0	0	0
Total Volume	4	0	4	0	3	3	0	0	0
% App. Total	100	0		0	100		0	0	
PHF	.333	.000	.333	.000	.375	.375	.000	.000	.000

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Ford Driveway
Weather: Clear

File Name : 02_CHN_Ram_Ford PM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

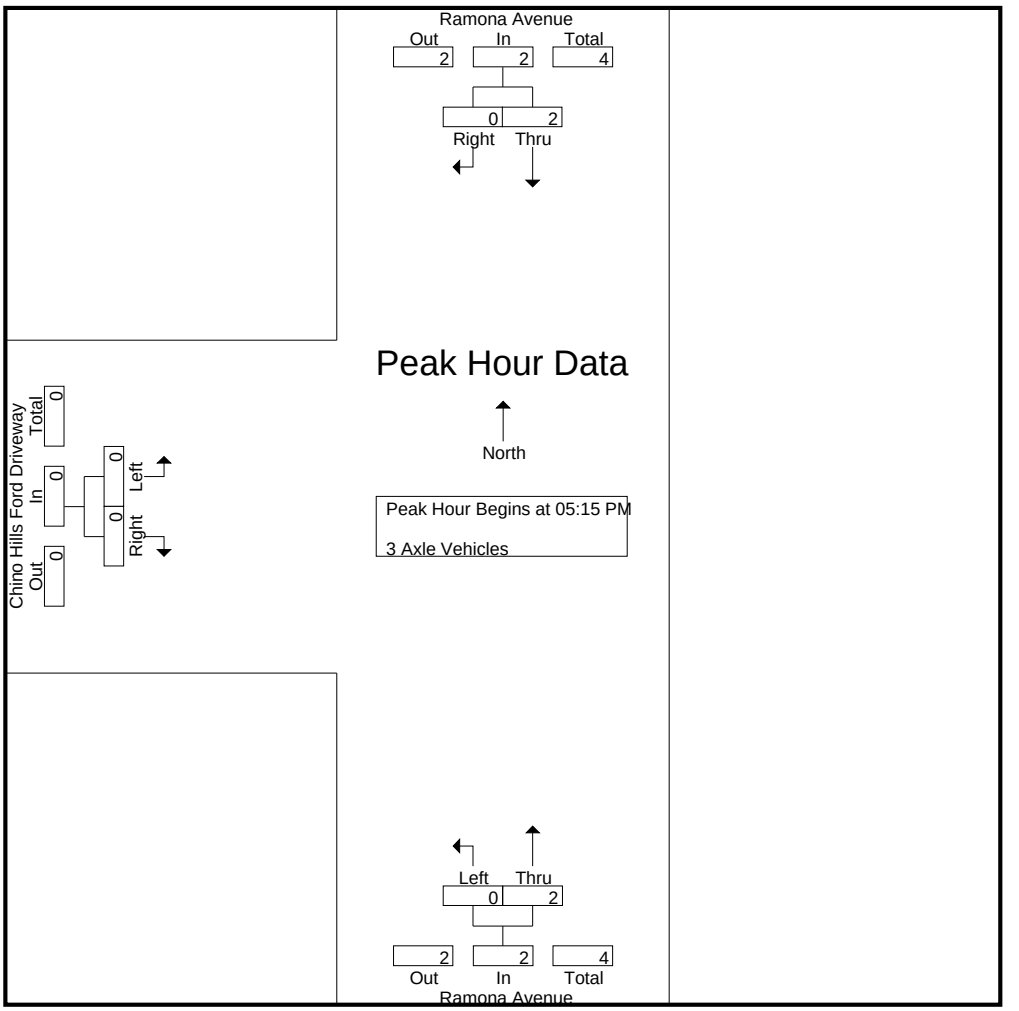
	Ramona Avenue Southbound			Ramona Avenue Northbound			Chino Hills Ford Driveway Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	1	1	0	0	0	1
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	1	1	0	0	0	1
04:45 PM	0	0	0	0	1	1	0	0	0	1
Total	0	0	0	0	3	3	0	0	0	3
05:00 PM	0	0	0	0	2	2	0	0	0	2
05:15 PM	0	0	0	0	1	1	0	0	0	1
05:30 PM	2	0	2	0	1	1	0	0	0	3
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	2	0	2	0	4	4	0	0	0	6
06:00 PM	0	0	0	0	0	0	0	0	0	0
06:15 PM	1	0	1	0	0	0	0	0	0	1
06:30 PM	1	0	1	0	0	0	0	0	0	1
06:45 PM	0	0	0	0	0	0	0	0	0	0
Total	2	0	2	0	0	0	0	0	0	2
Grand Total	4	0	4	0	7	7	0	0	0	11
Apprch %	100	0		0	100		0	0		
Total %	36.4	0	36.4	0	63.6	63.6	0	0	0	

	Ramona Avenue Southbound			Ramona Avenue Northbound			Chino Hills Ford Driveway Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 05:15 PM to 06:00 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:15 PM										
05:15 PM	0	0	0	0	**1**	**1**	0	0	0	1
05:30 PM	**2**	0	**2**	0	1	1	0	0	0	**3**
05:45 PM	0	0	0	0	0	0	0	0	0	0
06:00 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	2	0	2	0	2	2	0	0	0	4
% App. Total	100	0		0	100		0	0		
PHF	.250	.000	.250	.000	.500	.500	.000	.000	.000	.333

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Ford Driveway
Weather: Clear

File Name : 02_CHN_Ram_Ford PM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 2



Peak Hour Analysis From 05:15 PM to 06:00 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:15 PM			05:15 PM			05:15 PM		
+0 mins.	0	0	0	0	**1**	**1**	0	0	0
+15 mins.	**2**	0	**2**	0	1	1	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	2	0	2	0	2	2	0	0	0
% App. Total	100	0		0	100		0	0	
PHF	.250	.000	.250	.000	.500	.500	.000	.000	.000

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Ford Driveway
Weather: Clear

File Name : 02_CHN_Ram_Ford PM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

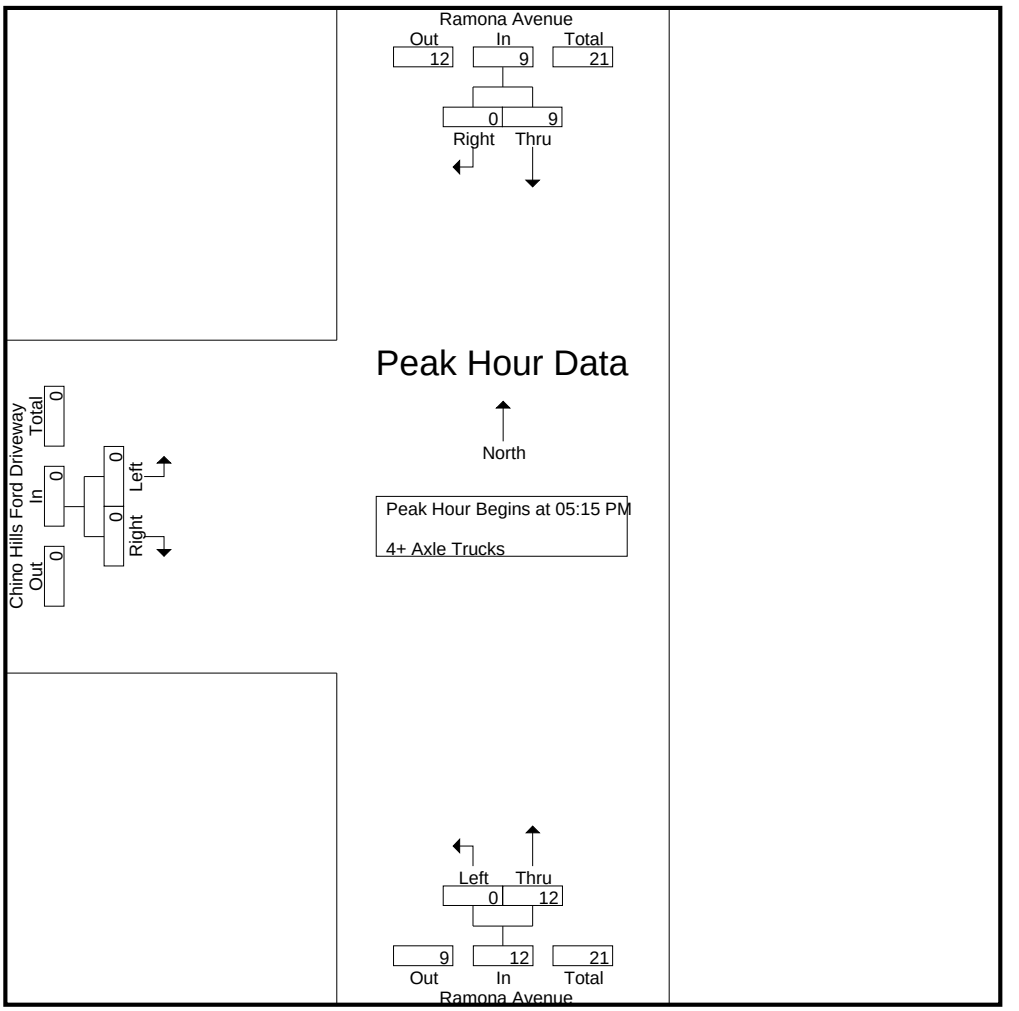
	Ramona Avenue Southbound			Ramona Avenue Northbound			Chino Hills Ford Driveway Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	4	0	4	0	1	1	0	0	0	5
04:15 PM	2	0	2	0	1	1	0	0	0	3
04:30 PM	2	0	2	0	3	3	0	0	0	5
04:45 PM	2	0	2	0	5	5	0	0	0	7
Total	10	0	10	0	10	10	0	0	0	20
05:00 PM	0	0	0	0	2	2	0	0	0	2
05:15 PM	1	0	1	0	3	3	0	0	0	4
05:30 PM	1	0	1	0	2	2	0	0	0	3
05:45 PM	4	0	4	0	5	5	0	0	0	9
Total	6	0	6	0	12	12	0	0	0	18
06:00 PM	3	0	3	0	2	2	0	0	0	5
06:15 PM	2	0	2	0	2	2	0	0	0	4
06:30 PM	1	0	1	0	2	2	0	0	0	3
06:45 PM	2	0	2	0	1	1	0	0	0	3
Total	8	0	8	0	7	7	0	0	0	15
Grand Total	24	0	24	0	29	29	0	0	0	53
Apprch %	100	0		0	100		0	0		
Total %	45.3	0	45.3	0	54.7	54.7	0	0	0	

	Ramona Avenue Southbound			Ramona Avenue Northbound			Chino Hills Ford Driveway Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 05:15 PM to 06:00 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:15 PM										
05:15 PM	1	0	1	0	3	3	0	0	0	4
05:30 PM	1	0	1	0	2	2	0	0	0	3
05:45 PM	**4**	0	**4**	0	**5**	**5**	0	0	0	**9**
06:00 PM	3	0	3	0	2	2	0	0	0	5
Total Volume	9	0	9	0	12	12	0	0	0	21
% App. Total	100	0		0	100		0	0		
PHF	.563	.000	.563	.000	.600	.600	.000	.000	.000	.583

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Ford Driveway
Weather: Clear

File Name : 02_CHN_Ram_Ford PM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 2



Peak Hour Analysis From 05:15 PM to 06:00 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:15 PM			05:15 PM			05:15 PM		
+0 mins.	1	0	1	0	3	3	0	0	0
+15 mins.	1	0	1	0	2	2	0	0	0
+30 mins.	**4**	0	**4**	0	**5**	**5**	0	0	0
+45 mins.	3	0	3	0	2	2	0	0	0
Total Volume	9	0	9	0	12	12	0	0	0
% App. Total	100	0		0	100		0	0	
PHF	.563	.000	.563	.000	.600	.600	.000	.000	.000

Location: Chino
N/S: Ramona Avenue
E/W: Chino Hills Ford Driveway

Date: 10/22/2024
Day: Tuesday

PEDESTRIANS

	North Leg Ramona Avenue	East Leg Dead End	South Leg Ramona Avenue	West Leg Chino Hills Ford Driveway	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
6:00 AM	0	0	0	0	0
6:15 AM	0	0	0	0	0
6:30 AM	0	0	0	0	0
6:45 AM	0	0	0	0	0
7:00 AM	0	0	0	1	1
7:15 AM	0	0	0	7	7
7:30 AM	0	0	0	1	1
7:45 AM	0	0	0	1	1
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	10	10

	North Leg Ramona Avenue	East Leg Dead End	South Leg Ramona Avenue	West Leg Chino Hills Ford Driveway	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	1	1
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	4	4
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	1	1
5:45 PM	0	0	0	0	0
6:00 PM	0	0	0	2	2
6:15 PM	0	0	0	0	0
6:30 PM	0	0	0	1	1
6:45 PM	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	9	9

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Location: Chino
N/S: Ramona Avenue
E/W: Chino Hills Ford Driveway

Date: 10/22/2024
Day: Tuesday

BICYCLES

	Southbound Ramona Avenue			Westbound Dead End			Northbound Ramona Avenue			Eastbound Chino Hills Ford Driveway			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
8:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	1
8:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	2	0	0	0	0	0	4	0	0	0	1	7

	Southbound Ramona Avenue			Westbound Dead End			Northbound Ramona Avenue			Eastbound Chino Hills Ford Driveway			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
4:30 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
4:45 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	2	0	0	0	0	0	0	0	0	0	0	2
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
6:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	7	0	0	0	0	0	2	0	0	0	0	9

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Parkway
Weather: Clear

File Name : 03_CHN_Ram_CHP AM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

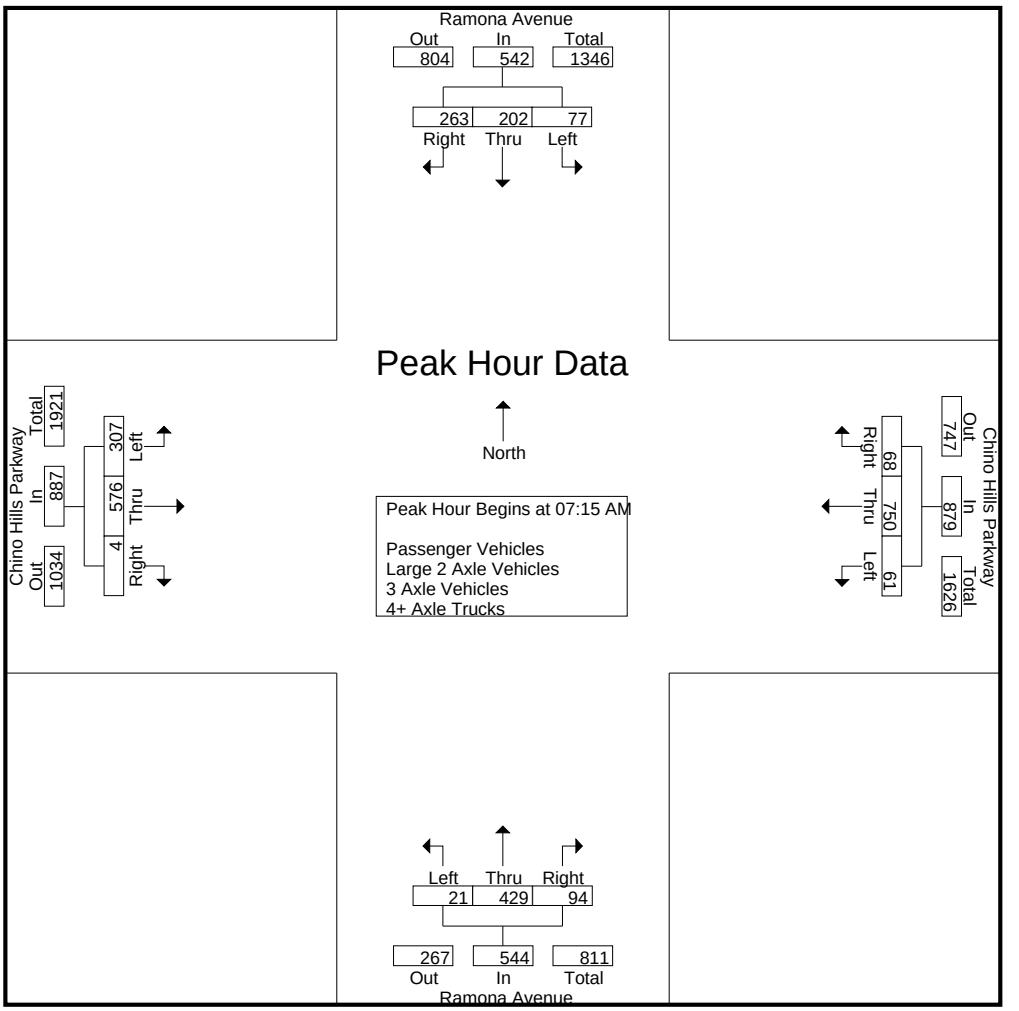
	Ramona Avenue Southbound				Chino Hills Parkway Westbound				Ramona Avenue Northbound				Chino Hills Parkway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	7	22	26	55	5	118	6	129	3	32	12	47	13	57	0	70	301
06:15 AM	5	27	66	98	5	164	15	184	4	45	5	54	33	67	0	100	436
06:30 AM	9	29	51	89	4	157	14	175	4	55	12	71	32	88	0	120	455
06:45 AM	15	28	41	84	6	132	18	156	4	74	19	97	34	118	0	152	489
Total	36	106	184	326	20	571	53	644	15	206	48	269	112	330	0	442	1681
07:00 AM	13	29	51	93	8	225	19	252	5	74	20	99	39	89	0	128	572
07:15 AM	12	29	49	90	20	229	11	260	3	82	18	103	57	124	0	181	634
07:30 AM	16	42	78	136	14	226	12	252	9	102	30	141	64	135	1	200	729
07:45 AM	23	63	57	143	14	182	22	218	5	129	24	158	86	180	1	267	786
Total	64	163	235	462	56	862	64	982	22	387	92	501	246	528	2	776	2721
08:00 AM	26	68	79	173	13	113	23	149	4	116	22	142	100	137	2	239	703
08:15 AM	31	44	66	141	5	116	23	144	8	90	32	130	78	136	0	214	629
08:30 AM	18	43	43	104	14	124	17	155	7	102	32	141	68	165	0	233	633
08:45 AM	19	44	33	96	6	117	35	158	8	104	22	134	68	140	1	209	597
Total	94	199	221	514	38	470	98	606	27	412	108	547	314	578	3	895	2562
Grand Total	194	468	640	1302	114	1903	215	2232	64	1005	248	1317	672	1436	5	2113	6964
Apprch %	14.9	35.9	49.2		5.1	85.3	9.6		4.9	76.3	18.8		31.8	68	0.2		
Total %	2.8	6.7	9.2	18.7	1.6	27.3	3.1	32.1	0.9	14.4	3.6	18.9	9.6	20.6	0.1	30.3	
Passenger Vehicles	190	442	585	1217	101	1811	200	2112	63	976	244	1283	648	1362	5	2015	6627
% Passenger Vehicles	97.9	94.4	91.4	93.5	88.6	95.2	93	94.6	98.4	97.1	98.4	97.4	96.4	94.8	100	95.4	95.2
Large 2 Axle Vehicles	1	7	24	32	11	39	9	59	1	14	3	18	8	30	0	38	147
% Large 2 Axle Vehicles	0.5	1.5	3.8	2.5	9.6	2	4.2	2.6	1.6	1.4	1.2	1.4	1.2	2.1	0	1.8	2.1
3 Axle Vehicles	1	1	5	7	1	16	3	20	0	2	0	2	4	11	0	15	44
% 3 Axle Vehicles	0.5	0.2	0.8	0.5	0.9	0.8	1.4	0.9	0	0.2	0	0.2	0.6	0.8	0	0.7	0.6
4+ Axle Trucks	2	18	26	46	1	37	3	41	0	13	1	14	12	33	0	45	146
% 4+ Axle Trucks	1	3.8	4.1	3.5	0.9	1.9	1.4	1.8	0	1.3	0.4	1.1	1.8	2.3	0	2.1	2.1

	Ramona Avenue Southbound				Chino Hills Parkway Westbound				Ramona Avenue Northbound				Chino Hills Parkway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	12	29	49	90	**20**	**229**	11	**260**	3	82	18	103	57	124	0	181	634
07:30 AM	16	42	78	136	14	226	12	252	**9**	102	**30**	141	64	135	1	200	729
07:45 AM	23	63	57	143	14	182	22	218	5	**129**	24	**158**	86	**180**	1	**267**	**786**
08:00 AM	**26**	**68**	**79**	**173**	13	113	**23**	149	4	116	22	142	**100**	137	**2**	239	703
Total Volume	77	202	263	542	61	750	68	879	21	429	94	544	307	576	4	887	2852
% App. Total	14.2	37.3	48.5		6.9	85.3	7.7		3.9	78.9	17.3		34.6	64.9	0.5		
PHF	.740	.743	.832	.783	.763	.819	.739	.845	.583	.831	.783	.861	.768	.800	.500	.831	.907

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Parkway
Weather: Clear

File Name : 03_CHN_Ram_CHP AM
Site Code : 00324922
Start Date : 10/22/2024



Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:00 AM				07:30 AM				07:45 AM			
+0 mins.	16	42	78	136	8	225	19	252	**9**	102	30	141	86	**180**	1	**267**
+15 mins.	23	63	57	143	**20**	**229**	11	**260**	5	**129**	24	**158**	**100**	137	**2**	239
+30 mins.	26	**68**	**79**	**173**	14	226	12	252	4	116	22	142	78	136	0	214
+45 mins.	**31**	44	66	141	14	182	**22**	218	8	90	**32**	130	68	165	0	233
Total Volume	96	217	280	593	56	862	64	982	26	437	108	571	332	618	3	953
% App. Total	16.2	36.6	47.2		5.7	87.8	6.5		4.6	76.5	18.9		34.8	64.8	0.3	
PHF	.774	.798	.886	.857	.700	.941	.727	.944	.722	.847	.844	.903	.830	.858	.375	.892

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Corona, CA 92878
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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Parkway
Weather: Clear

File Name : 03_CHN_Ram_CHP AM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 1

Groups Printed- Passenger Vehicles

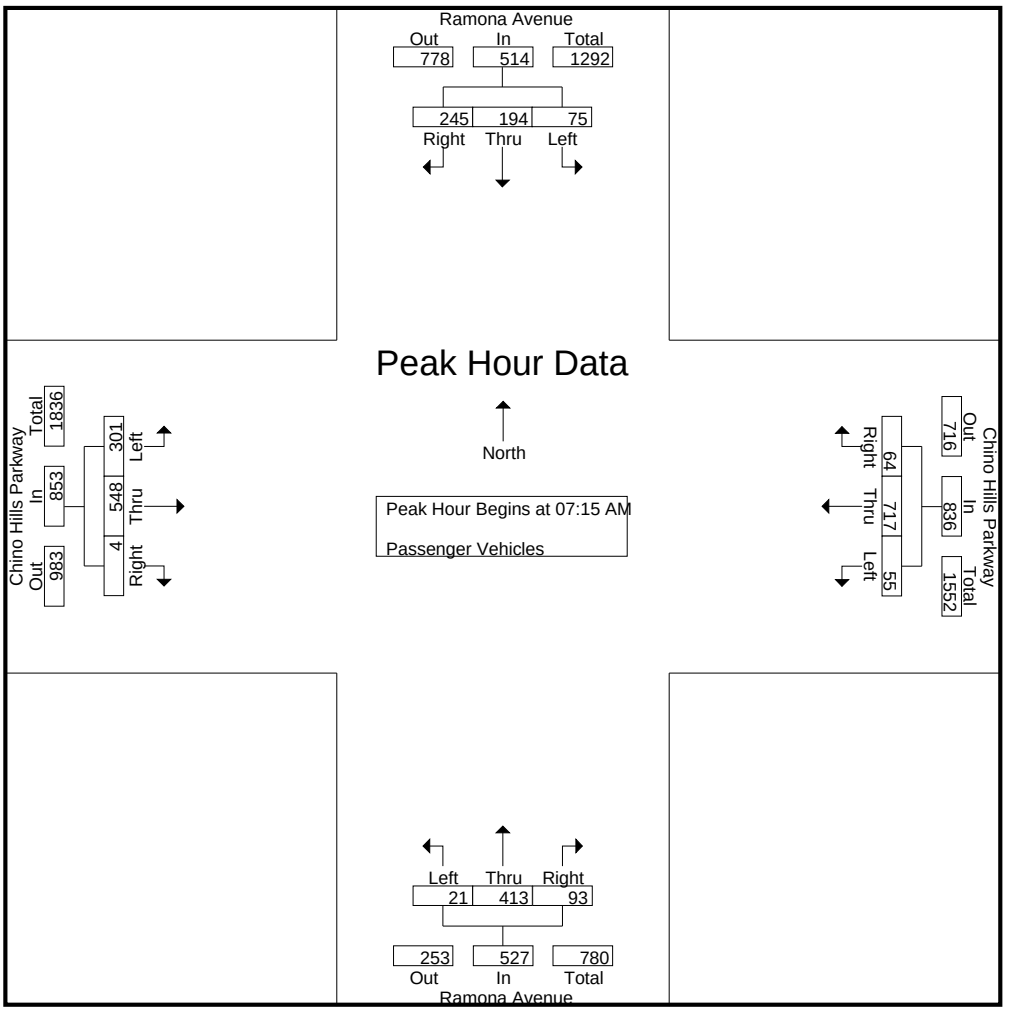
	Ramona Avenue Southbound				Chino Hills Parkway Westbound				Ramona Avenue Northbound				Chino Hills Parkway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	7	20	25	52	5	111	5	121	3	31	12	46	11	56	0	67	286
06:15 AM	4	24	64	92	4	159	12	175	4	44	4	52	33	60	0	93	412
06:30 AM	9	28	45	82	3	147	14	164	4	54	12	70	27	85	0	112	428
06:45 AM	15	26	35	76	5	123	17	145	4	71	19	94	32	110	0	142	457
Total	35	98	169	302	17	540	48	605	15	200	47	262	103	311	0	414	1583
07:00 AM	12	28	41	81	4	213	18	235	5	71	20	96	38	80	0	118	530
07:15 AM	11	28	44	83	18	217	9	244	3	79	18	100	55	118	0	173	600
07:30 AM	16	42	78	136	11	218	12	241	9	100	29	138	63	126	1	190	705
07:45 AM	23	59	50	132	13	175	21	209	5	123	24	152	85	174	1	260	753
Total	62	157	213	432	46	823	60	929	22	373	91	486	241	498	2	741	2588
08:00 AM	25	65	73	163	13	107	22	142	4	111	22	137	98	130	2	230	672
08:15 AM	31	42	60	133	5	111	20	136	8	90	32	130	75	131	0	206	605
08:30 AM	18	40	40	98	14	118	16	148	7	99	31	137	64	162	0	226	609
08:45 AM	19	40	30	89	6	112	34	152	7	103	21	131	67	130	1	198	570
Total	93	187	203	483	38	448	92	578	26	403	106	535	304	553	3	860	2456
Grand Total	190	442	585	1217	101	1811	200	2112	63	976	244	1283	648	1362	5	2015	6627
Apprch %	15.6	36.3	48.1		4.8	85.7	9.5		4.9	76.1	19		32.2	67.6	0.2		
Total %	2.9	6.7	8.8	18.4	1.5	27.3	3	31.9	1	14.7	3.7	19.4	9.8	20.6	0.1	30.4	

	Ramona Avenue Southbound				Chino Hills Parkway Westbound				Ramona Avenue Northbound				Chino Hills Parkway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	11	28	44	83	**18**	217	9	**244**	3	79	18	100	55	118	0	173	600
07:30 AM	16	42	**78**	136	11	**218**	12	241	**9**	100	**29**	138	63	126	1	190	705
07:45 AM	23	59	50	132	13	175	21	209	5	**123**	24	**152**	85	**174**	1	**260**	**753**
08:00 AM	**25**	**65**	73	**163**	13	107	**22**	142	4	111	22	137	**98**	130	**2**	230	672
Total Volume	75	194	245	514	55	717	64	836	21	413	93	527	301	548	4	853	2730
% App. Total	14.6	37.7	47.7		6.6	85.8	7.7		4	78.4	17.6		35.3	64.2	0.5		
PHF	.750	.746	.785	.788	.764	.822	.727	.857	.583	.839	.802	.867	.768	.787	.500	.820	.906

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Parkway
Weather: Clear

File Name : 03_CHN_Ram_CHP AM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	11	28	44	83	**18**	217	9	**244**	3	79	18	100	55	118	0	173
+15 mins.	16	42	**78**	136	11	**218**	12	241	**9**	100	**29**	138	63	126	1	190
+30 mins.	23	59	50	132	13	175	21	209	5	**123**	24	**152**	85	**174**	1	**260**
+45 mins.	**25**	**65**	73	**163**	13	107	**22**	142	4	111	22	137	**98**	130	**2**	230
Total Volume	75	194	245	514	55	717	64	836	21	413	93	527	301	548	4	853
% App. Total	14.6	37.7	47.7		6.6	85.8	7.7		4	78.4	17.6		35.3	64.2	0.5	
PHF	.750	.746	.785	.788	.764	.822	.727	.857	.583	.839	.802	.867	.768	.787	.500	.820

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Parkway
Weather: Clear

File Name : 03_CHN_Ram_CHP AM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

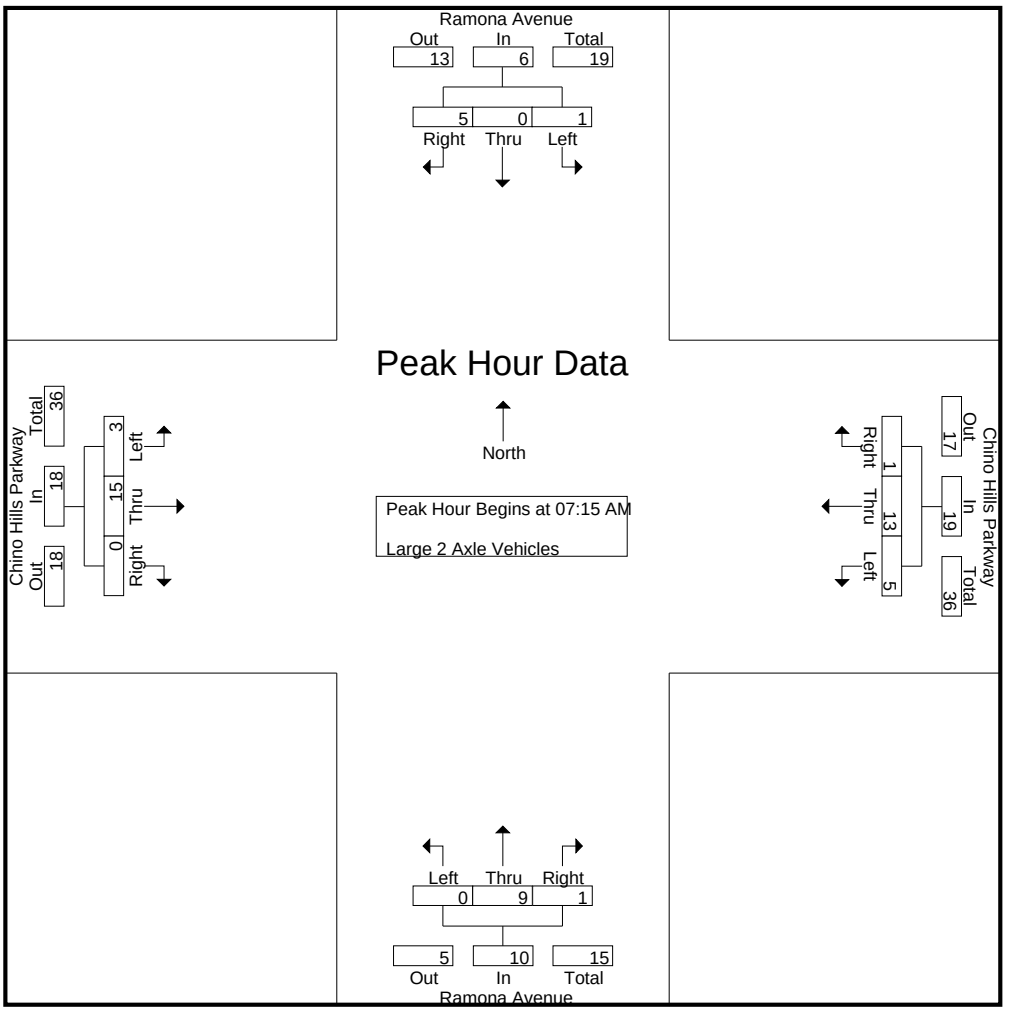
	Ramona Avenue Southbound				Chino Hills Parkway Westbound				Ramona Avenue Northbound				Chino Hills Parkway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	0	1	0	1	0	4	0	4	0	0	0	0	0	0	0	0	5
06:15 AM	0	1	1	2	1	3	3	7	0	1	0	1	0	3	0	3	13
06:30 AM	0	1	4	5	1	3	0	4	0	1	0	1	2	2	0	4	14
06:45 AM	0	1	5	6	1	5	1	7	0	0	0	0	0	2	0	2	15
Total	0	4	10	14	3	15	4	22	0	2	0	2	2	7	0	9	47
07:00 AM	0	0	5	5	3	5	1	9	0	0	0	0	1	2	0	3	17
07:15 AM	1	0	2	3	2	3	1	6	0	2	0	2	1	3	0	4	15
07:30 AM	0	0	0	0	3	3	0	6	0	1	1	2	1	5	0	6	14
07:45 AM	0	0	2	2	0	3	0	3	0	4	0	4	0	4	0	4	13
Total	1	0	9	10	8	14	2	24	0	7	1	8	3	14	0	17	59
08:00 AM	0	0	1	1	0	4	0	4	0	2	0	2	1	3	0	4	11
08:15 AM	0	1	3	4	0	1	1	2	0	0	0	0	0	3	0	3	9
08:30 AM	0	1	1	2	0	1	1	2	0	3	1	4	2	0	0	2	10
08:45 AM	0	1	0	1	0	4	1	5	1	0	1	2	0	3	0	3	11
Total	0	3	5	8	0	10	3	13	1	5	2	8	3	9	0	12	41
Grand Total	1	7	24	32	11	39	9	59	1	14	3	18	8	30	0	38	147
Apprch %	3.1	21.9	75		18.6	66.1	15.3		5.6	77.8	16.7		21.1	78.9	0		
Total %	0.7	4.8	16.3	21.8	7.5	26.5	6.1	40.1	0.7	9.5	2	12.2	5.4	20.4	0	25.9	

	Ramona Avenue Southbound				Chino Hills Parkway Westbound				Ramona Avenue Northbound				Chino Hills Parkway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	**1**	0	**2**	**3**	2	3	**1**	**6**	0	2	0	2	**1**	3	0	4	**15**
07:30 AM	0	0	0	0	**3**	3	0	6	0	1	**1**	2	1	**5**	0	**6**	14
07:45 AM	0	0	2	2	0	3	0	3	0	**4**	0	**4**	0	4	0	4	13
08:00 AM	0	0	1	1	0	**4**	0	4	0	2	0	2	1	3	0	4	11
Total Volume	1	0	5	6	5	13	1	19	0	9	1	10	3	15	0	18	53
% App. Total	16.7	0	83.3		26.3	68.4	5.3		0	90	10		16.7	83.3	0		
PHF	.250	.000	.625	.500	.417	.813	.250	.792	.000	.563	.250	.625	.750	.750	.000	.750	.883

Counts Unlimited, Inc.
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Corona, CA 92878
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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Parkway
Weather: Clear

File Name : 03_CHN_Ram_CHP AM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	**1**	0	**2**	**3**	2	3	**1**	**6**	0	2	0	2	**1**	3	0	4
+15 mins.	0	0	0	0	**3**	3	0	6	0	1	**1**	2	1	**5**	0	**6**
+30 mins.	0	0	2	2	0	3	0	3	0	**4**	0	**4**	0	4	0	4
+45 mins.	0	0	1	1	0	**4**	0	4	0	2	0	2	1	3	0	4
Total Volume	1	0	5	6	5	13	1	19	0	9	1	10	3	15	0	18
% App. Total	16.7	0	83.3		26.3	68.4	5.3		0	90	10		16.7	83.3	0	
PHF	.250	.000	.625	.500	.417	.813	.250	.792	.000	.563	.250	.625	.750	.750	.000	.750

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Parkway
Weather: Clear

File Name : 03_CHN_Ram_CHP AM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

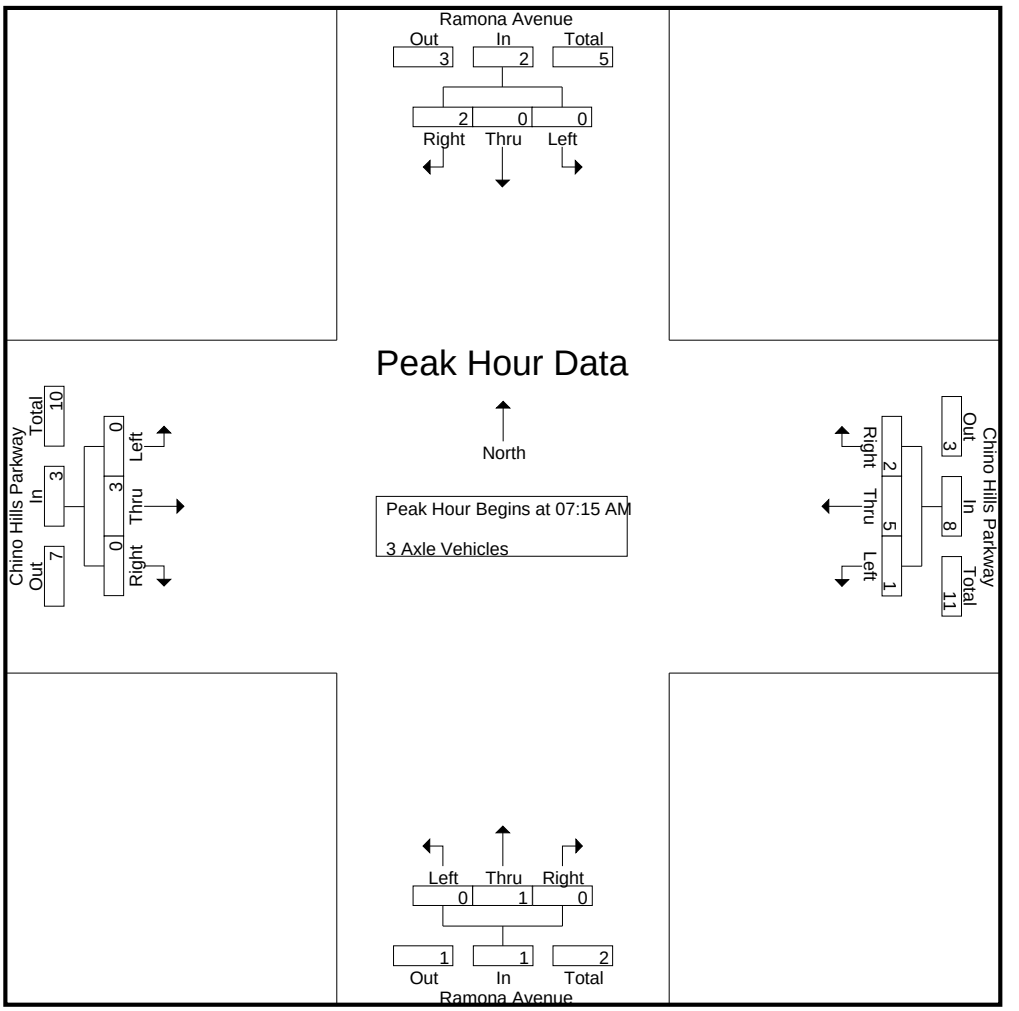
	Ramona Avenue Southbound				Chino Hills Parkway Westbound				Ramona Avenue Northbound				Chino Hills Parkway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	0	0	0	0	0	1	0	1	0	1	0	1	0	0	0	0	2
06:15 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	2	0	2	3
06:30 AM	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	0	3
06:45 AM	0	0	0	0	0	2	0	2	0	0	0	0	1	3	0	4	6
Total	0	0	0	0	0	7	0	7	0	1	0	1	1	5	0	6	14
07:00 AM	1	0	1	2	0	1	0	1	0	0	0	0	0	1	0	1	4
07:15 AM	0	0	1	1	0	3	1	4	0	0	0	0	0	0	0	0	5
07:30 AM	0	0	0	0	0	2	0	2	0	0	0	0	0	1	0	1	3
07:45 AM	0	0	0	0	1	0	0	1	0	1	0	1	0	0	0	0	2
Total	1	0	2	3	1	6	1	8	0	1	0	1	0	2	0	2	14
08:00 AM	0	0	1	1	0	0	1	1	0	0	0	0	0	2	0	2	4
08:15 AM	0	0	0	0	0	1	1	2	0	0	0	0	2	1	0	3	5
08:30 AM	0	0	0	0	0	2	0	2	0	0	0	0	1	1	0	2	4
08:45 AM	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	0	1	3	4	0	3	2	5	0	0	0	0	3	4	0	7	16
Grand Total	1	1	5	7	1	16	3	20	0	2	0	2	4	11	0	15	44
Apprch %	14.3	14.3	71.4		5	80	15		0	100	0		26.7	73.3	0		
Total %	2.3	2.3	11.4	15.9	2.3	36.4	6.8	45.5	0	4.5	0	4.5	9.1	25	0	34.1	

	Ramona Avenue Southbound				Chino Hills Parkway Westbound				Ramona Avenue Northbound				Chino Hills Parkway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	0	**1**	**1**	0	**3**	**1**	**4**	0	0	0	0	0	0	0	0	**5**
07:30 AM	0	0	0	0	0	2	0	2	0	0	0	0	0	1	0	1	3
07:45 AM	0	0	0	0	**1**	0	0	1	0	**1**	0	**1**	0	0	0	0	2
08:00 AM	0	0	1	1	0	0	1	1	0	0	0	0	0	**2**	0	**2**	4
Total Volume	0	0	2	2	1	5	2	8	0	1	0	1	0	3	0	3	14
% App. Total	0	0	100		12.5	62.5	25		0	100	0		0	100	0		
PHF	.000	.000	.500	.500	.250	.417	.500	.500	.000	.250	.000	.250	.000	.375	.000	.375	.700

Counts Unlimited, Inc.
PO Box 1178
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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Parkway
Weather: Clear

File Name : 03_CHN_Ram_CHP AM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	0	**1**	**1**	0	**3**	**1**	**4**	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	2	0	2	0	0	0	0	0	1	0	1
+30 mins.	0	0	0	0	**1**	0	0	1	0	**1**	0	**1**	0	0	0	0
+45 mins.	0	0	1	1	0	0	1	1	0	0	0	0	0	**2**	0	**2**
Total Volume	0	0	2	2	1	5	2	8	0	1	0	1	0	3	0	3
% App. Total	0	0	100		12.5	62.5	25		0	100	0		0	100	0	
PHF	.000	.000	.500	.500	.250	.417	.500	.500	.000	.250	.000	.250	.000	.375	.000	.375

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Parkway
Weather: Clear

File Name : 03_CHN_Ram_CHP AM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

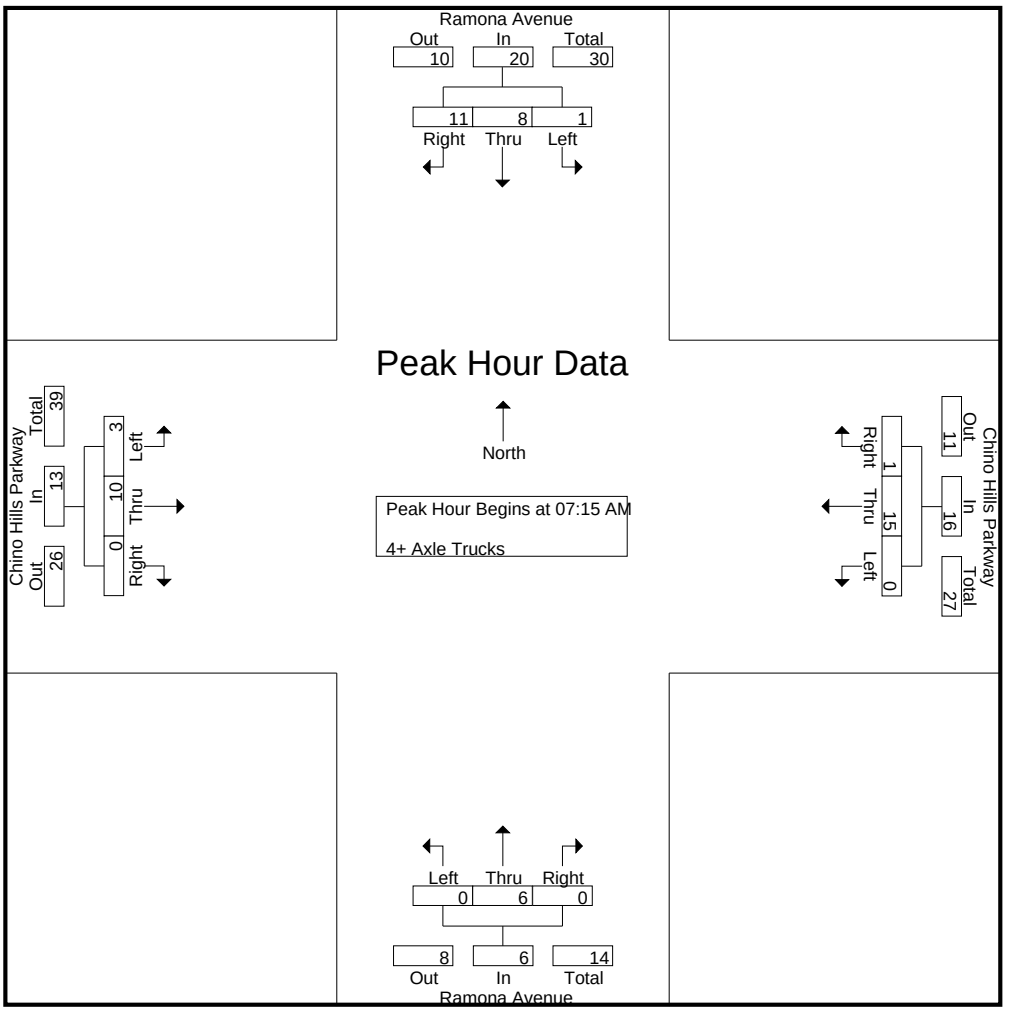
	Ramona Avenue Southbound				Chino Hills Parkway Westbound				Ramona Avenue Northbound				Chino Hills Parkway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	0	1	1	2	0	2	1	3	0	0	0	0	2	1	0	3	8
06:15 AM	1	2	1	4	0	1	0	1	0	0	1	1	0	2	0	2	8
06:30 AM	0	0	2	2	0	4	0	4	0	0	0	0	3	1	0	4	10
06:45 AM	0	1	1	2	0	2	0	2	0	3	0	3	1	3	0	4	11
Total	1	4	5	10	0	9	1	10	0	3	1	4	6	7	0	13	37
07:00 AM	0	1	4	5	1	6	0	7	0	3	0	3	0	6	0	6	21
07:15 AM	0	1	2	3	0	6	0	6	0	1	0	1	1	3	0	4	14
07:30 AM	0	0	0	0	0	3	0	3	0	1	0	1	0	3	0	3	7
07:45 AM	0	4	5	9	0	4	1	5	0	1	0	1	1	2	0	3	18
Total	0	6	11	17	1	19	1	21	0	6	0	6	2	14	0	16	60
08:00 AM	1	3	4	8	0	2	0	2	0	3	0	3	1	2	0	3	16
08:15 AM	0	1	3	4	0	3	1	4	0	0	0	0	1	1	0	2	10
08:30 AM	0	2	2	4	0	3	0	3	0	0	0	0	1	2	0	3	10
08:45 AM	0	2	1	3	0	1	0	1	0	1	0	1	1	7	0	8	13
Total	1	8	10	19	0	9	1	10	0	4	0	4	4	12	0	16	49
Grand Total	2	18	26	46	1	37	3	41	0	13	1	14	12	33	0	45	146
Apprch %	4.3	39.1	56.5		2.4	90.2	7.3		0	92.9	7.1		26.7	73.3	0		
Total %	1.4	12.3	17.8	31.5	0.7	25.3	2.1	28.1	0	8.9	0.7	9.6	8.2	22.6	0	30.8	

	Ramona Avenue Southbound				Chino Hills Parkway Westbound				Ramona Avenue Northbound				Chino Hills Parkway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	1	2	3	0	**6**	0	**6**	0	1	0	1	**1**	**3**	0	**4**	14
07:30 AM	0	0	0	0	0	3	0	3	0	1	0	1	0	3	0	3	7
07:45 AM	0	**4**	**5**	**9**	0	4	**1**	5	0	1	0	1	1	2	0	3	**18**
08:00 AM	**1**	3	4	8	0	2	0	2	0	**3**	0	**3**	1	2	0	3	16
Total Volume	1	8	11	20	0	15	1	16	0	6	0	6	3	10	0	13	55
% App. Total	5	40	55		0	93.8	6.2		0	100	0		23.1	76.9	0		
PHF	.250	.500	.550	.556	.000	.625	.250	.667	.000	.500	.000	.500	.750	.833	.000	.813	.764

Counts Unlimited, Inc.
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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Parkway
Weather: Clear

File Name : 03_CHN_Ram_CHP AM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	1	2	3	0	**6**	0	**6**	0	1	0	1	**1**	**3**	0	**4**
+15 mins.	0	0	0	0	0	3	0	3	0	1	0	1	0	3	0	3
+30 mins.	0	**4**	**5**	**9**	0	4	**1**	5	0	1	0	1	1	2	0	3
+45 mins.	**1**	3	4	8	0	2	0	2	0	**3**	0	**3**	1	2	0	3
Total Volume	1	8	11	20	0	15	1	16	0	6	0	6	3	10	0	13
% App. Total	5	40	55		0	93.8	6.2		0	100	0		23.1	76.9	0	
PHF	.250	.500	.550	.556	.000	.625	.250	.667	.000	.500	.000	.500	.750	.833	.000	.813

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Parkway
Weather: Clear

File Name : 03_CHN_Ram_CHP PM
Site Code : 00324922
Start Date : 10/22/2024
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

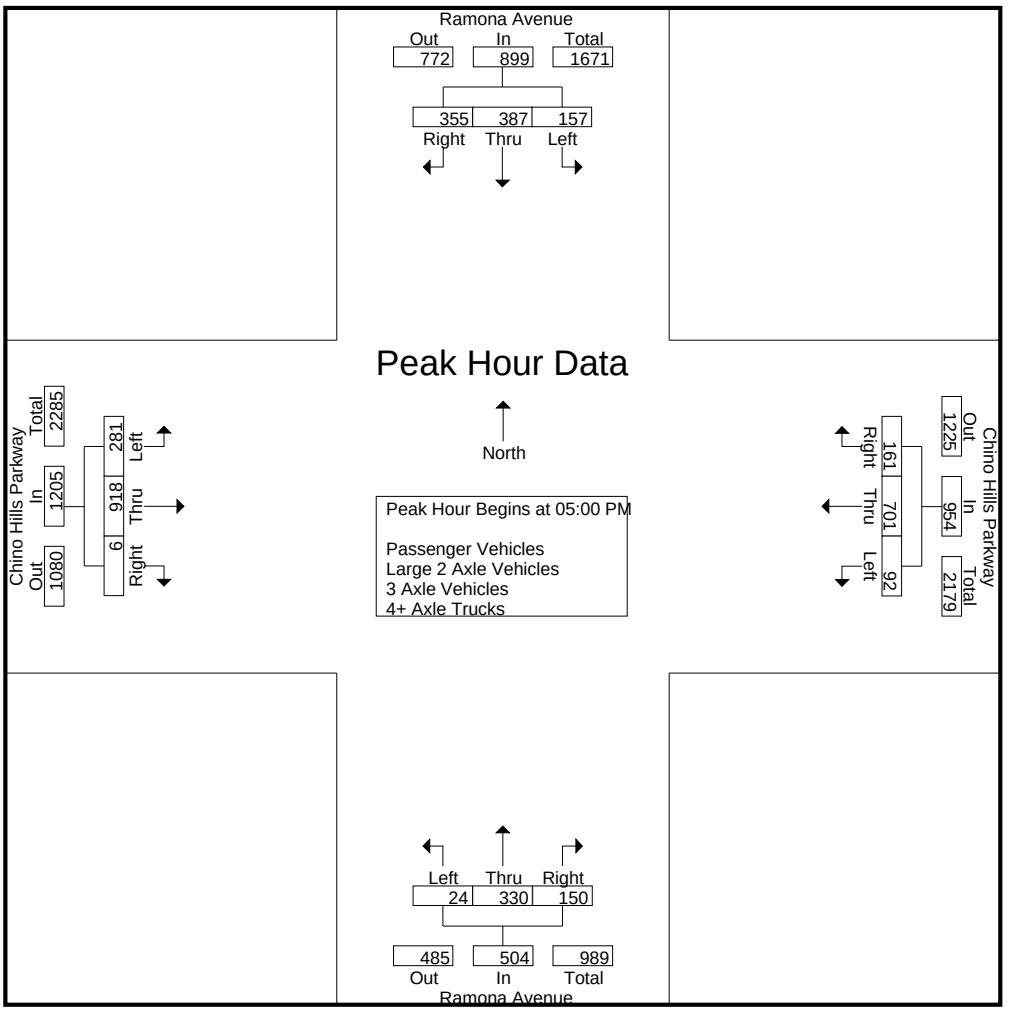
	Ramona Avenue Southbound				Chino Hills Parkway Westbound				Ramona Avenue Northbound				Chino Hills Parkway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	56	120	78	254	16	208	38	262	9	82	24	115	62	199	0	261	892
04:15 PM	38	78	72	188	34	160	47	241	2	64	30	96	61	222	1	284	809
04:30 PM	28	87	90	205	30	179	38	247	10	66	25	101	69	241	1	311	864
04:45 PM	46	81	84	211	21	146	33	200	6	56	28	90	72	276	1	349	850
Total	168	366	324	858	101	693	156	950	27	268	107	402	264	938	3	1205	3415
05:00 PM	36	117	120	273	21	199	28	248	7	70	33	110	65	253	2	320	951
05:15 PM	40	87	73	200	31	169	34	234	7	91	31	129	79	239	0	318	881
05:30 PM	34	99	69	202	23	161	41	225	3	68	52	123	71	230	2	303	853
05:45 PM	47	84	93	224	17	172	58	247	7	101	34	142	66	196	2	264	877
Total	157	387	355	899	92	701	161	954	24	330	150	504	281	918	6	1205	3562
06:00 PM	71	99	67	237	24	159	38	221	5	79	31	115	88	218	3	309	882
06:15 PM	42	93	67	202	23	150	43	216	7	63	32	102	52	223	6	281	801
06:30 PM	66	72	51	189	30	106	33	169	8	77	25	110	67	181	0	248	716
06:45 PM	50	88	47	185	25	138	35	198	7	43	25	75	67	185	3	255	713
Total	229	352	232	813	102	553	149	804	27	262	113	402	274	807	12	1093	3112
Grand Total	554	1105	911	2570	295	1947	466	2708	78	860	370	1308	819	2663	21	3503	10089
Apprch %	21.6	43	35.4		10.9	71.9	17.2		6	65.7	28.3		23.4	76	0.6		
Total %	5.5	11	9	25.5	2.9	19.3	4.6	26.8	0.8	8.5	3.7	13	8.1	26.4	0.2	34.7	
Passenger Vehicles	553	1092	879	2524	290	1890	465	2645	78	844	362	1284	784	2605	21	3410	9863
% Passenger Vehicles	99.8	98.8	96.5	98.2	98.3	97.1	99.8	97.7	100	98.1	97.8	98.2	95.7	97.8	100	97.3	97.8
Large 2 Axle Vehicles	1	5	11	17	2	28	0	30	0	4	5	9	12	24	0	36	92
% Large 2 Axle Vehicles	0.2	0.5	1.2	0.7	0.7	1.4	0	1.1	0	0.5	1.4	0.7	1.5	0.9	0	1	0.9
3 Axle Vehicles	0	3	2	5	1	8	0	9	0	0	0	0	5	5	0	10	24
% 3 Axle Vehicles	0	0.3	0.2	0.2	0.3	0.4	0	0.3	0	0	0	0	0.6	0.2	0	0.3	0.2
4+ Axle Trucks	0	5	19	24	2	21	1	24	0	12	3	15	18	29	0	47	110
% 4+ Axle Trucks	0	0.5	2.1	0.9	0.7	1.1	0.2	0.9	0	1.4	0.8	1.1	2.2	1.1	0	1.3	1.1

	Ramona Avenue Southbound				Chino Hills Parkway Westbound				Ramona Avenue Northbound				Chino Hills Parkway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	36	**117**	**120**	**273**	21	**199**	28	**248**	**7**	70	33	110	65	**253**	**2**	**320**	**951**
05:15 PM	40	87	73	200	**31**	169	34	234	7	91	31	129	**79**	239	0	318	881
05:30 PM	34	99	69	202	23	161	41	225	3	68	**52**	123	71	230	2	303	853
05:45 PM	**47**	84	93	224	17	172	**58**	247	7	**101**	34	**142**	66	196	2	264	877
Total Volume	157	387	355	899	92	701	161	954	24	330	150	504	281	918	6	1205	3562
% App. Total	17.5	43	39.5		9.6	73.5	16.9		4.8	65.5	29.8		23.3	76.2	0.5		
PHF	.835	.827	.740	.823	.742	.881	.694	.962	.857	.817	.721	.887	.889	.907	.750	.941	.936

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City of Chino
N/S: Ramona Avenue
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File Name : 03_CHN_Ram_CHP PM
Site Code : 00324922
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Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:15 PM				04:30 PM			
+0 mins.	36	**117**	**120**	**273**	21	**199**	28	**248**	**7**	91	31	129	69	241	1	311
+15 mins.	40	87	73	200	**31**	169	34	234	3	68	**52**	123	72	**276**	1	**349**
+30 mins.	34	99	69	202	23	161	41	225	7	**101**	34	**142**	65	253	**2**	320
+45 mins.	**47**	84	93	224	17	172	**58**	247	5	79	31	115	**79**	239	0	318
Total Volume	157	387	355	899	92	701	161	954	22	339	148	509	285	1009	4	1298
% App. Total	17.5	43	39.5		9.6	73.5	16.9		4.3	66.6	29.1		22	77.7	0.3	
PHF	.835	.827	.740	.823	.742	.881	.694	.962	.786	.839	.712	.896	.902	.914	.500	.930

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File Name : 03_CHN_Ram_CHP PM
Site Code : 00324922
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Groups Printed- Passenger Vehicles

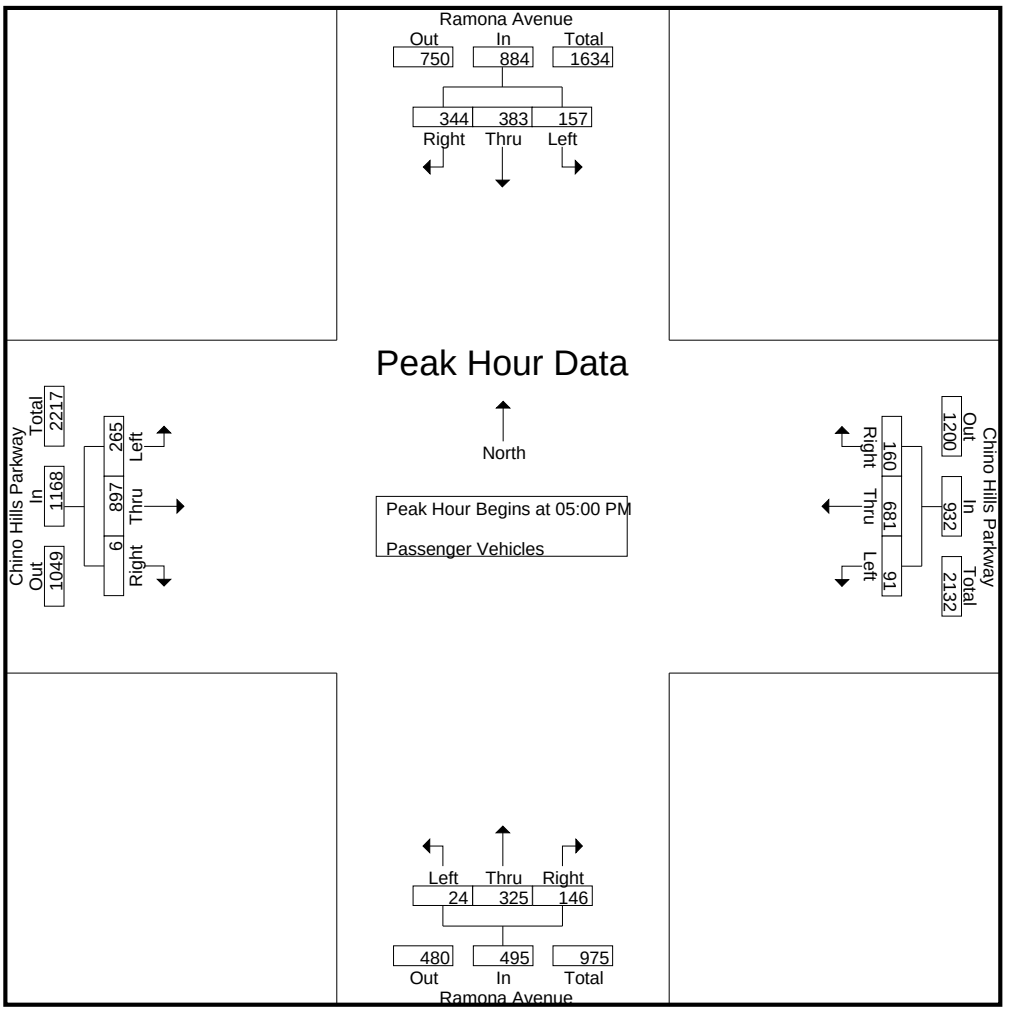
	Ramona Avenue Southbound				Chino Hills Parkway Westbound				Ramona Avenue Northbound				Chino Hills Parkway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	56	116	74	246	15	204	38	257	9	80	22	111	59	195	0	254	868
04:15 PM	38	77	70	185	33	155	47	235	2	64	29	95	58	216	1	275	790
04:30 PM	28	87	88	203	29	172	38	239	10	65	25	100	65	238	1	304	846
04:45 PM	45	80	82	207	21	139	33	193	6	52	28	86	69	271	1	341	827
Total	167	360	314	841	98	670	156	924	27	261	104	392	251	920	3	1174	3331
05:00 PM	36	117	117	270	21	197	28	246	7	66	32	105	62	245	2	309	930
05:15 PM	40	87	69	196	31	163	34	228	7	90	30	127	76	235	0	311	862
05:30 PM	34	96	68	198	22	157	40	219	3	68	51	122	69	226	2	297	836
05:45 PM	47	83	90	220	17	164	58	239	7	101	33	141	58	191	2	251	851
Total	157	383	344	884	91	681	160	932	24	325	146	495	265	897	6	1168	3479
06:00 PM	71	98	62	231	24	155	38	217	5	78	31	114	85	213	3	301	863
06:15 PM	42	92	65	199	23	147	43	213	7	62	31	100	51	221	6	278	790
06:30 PM	66	72	49	187	30	102	33	165	8	76	25	109	66	172	0	238	699
06:45 PM	50	87	45	182	24	135	35	194	7	42	25	74	66	182	3	251	701
Total	229	349	221	799	101	539	149	789	27	258	112	397	268	788	12	1068	3053
Grand Total	553	1092	879	2524	290	1890	465	2645	78	844	362	1284	784	2605	21	3410	9863
Apprch %	21.9	43.3	34.8		11	71.5	17.6		6.1	65.7	28.2		23	76.4	0.6		
Total %	5.6	11.1	8.9	25.6	2.9	19.2	4.7	26.8	0.8	8.6	3.7	13	7.9	26.4	0.2	34.6	

	Ramona Avenue Southbound				Chino Hills Parkway Westbound				Ramona Avenue Northbound				Chino Hills Parkway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	36	**117**	**117**	**270**	21	**197**	28	**246**	**7**	66	32	105	62	**245**	**2**	309	**930**
05:15 PM	40	87	69	196	**31**	163	34	228	7	90	30	127	**76**	235	0	**311**	862
05:30 PM	34	96	68	198	22	157	40	219	3	68	**51**	122	69	226	2	297	836
05:45 PM	**47**	83	90	220	17	164	**58**	239	7	**101**	33	**141**	58	191	2	251	851
Total Volume	157	383	344	884	91	681	160	932	24	325	146	495	265	897	6	1168	3479
% App. Total	17.8	43.3	38.9		9.8	73.1	17.2		4.8	65.7	29.5		22.7	76.8	0.5		
PHF	.835	.818	.735	.819	.734	.864	.690	.947	.857	.804	.716	.878	.872	.915	.750	.939	.935

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City of Chino
N/S: Ramona Avenue
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Weather: Clear

File Name : 03_CHN_Ram_CHP PM
Site Code : 00324922
Start Date : 10/22/2024
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Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	36	**117**	**117**	**270**	21	**197**	28	**246**	**7**	66	32	105	62	**245**	**2**	309
+15 mins.	40	87	69	196	**31**	163	34	228	7	90	30	127	**76**	235	0	**311**
+30 mins.	34	96	68	198	22	157	40	219	3	68	**51**	122	69	226	2	297
+45 mins.	**47**	83	90	220	17	164	**58**	239	7	**101**	33	**141**	58	191	2	251
Total Volume	157	383	344	884	91	681	160	932	24	325	146	495	265	897	6	1168
% App. Total	17.8	43.3	38.9		9.8	73.1	17.2		4.8	65.7	29.5		22.7	76.8	0.5	
PHF	.835	.818	.735	.819	.734	.864	.690	.947	.857	.804	.716	.878	.872	.915	.750	.939

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Parkway
Weather: Clear

File Name : 03_CHN_Ram_CHP PM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

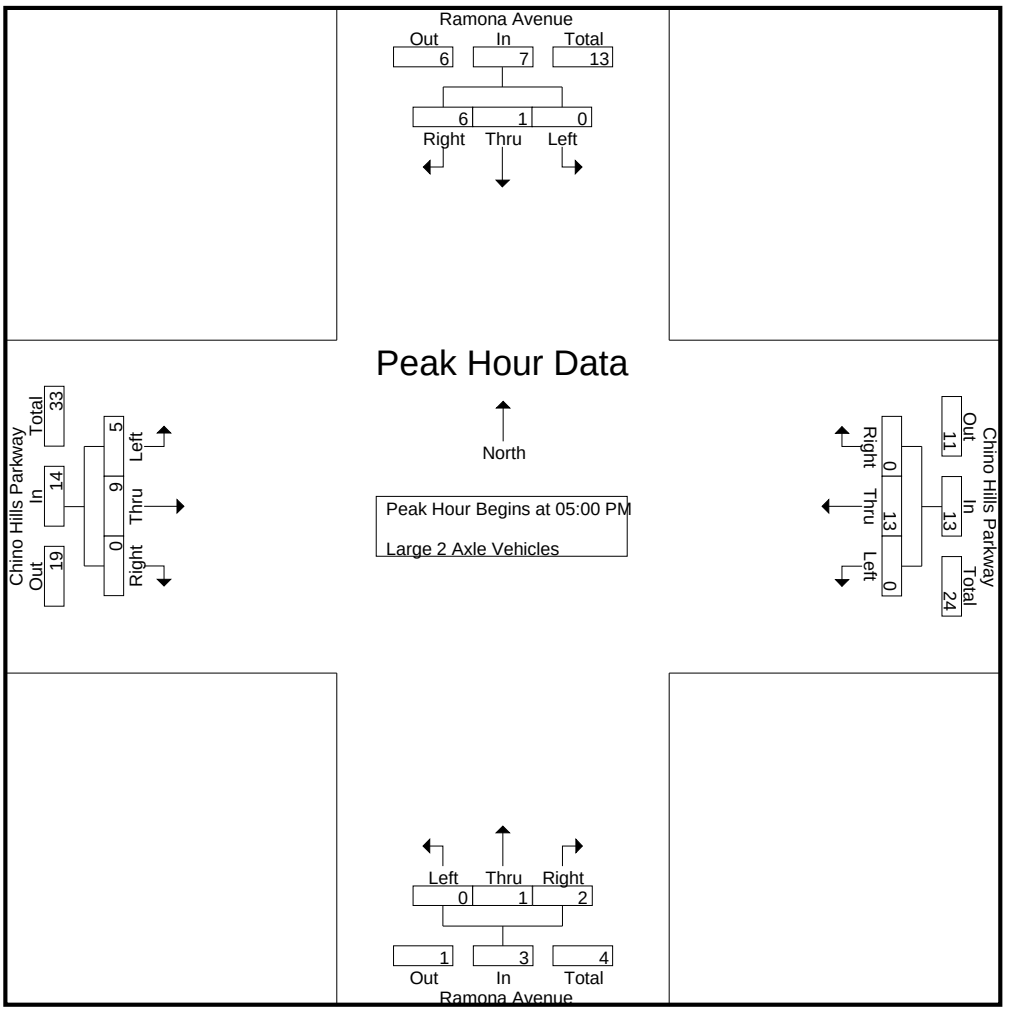
	Ramona Avenue Southbound				Chino Hills Parkway Westbound				Ramona Avenue Northbound				Chino Hills Parkway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	3	1	4	1	1	0	2	0	1	2	3	2	3	0	5	14
04:15 PM	0	1	0	1	0	2	0	2	0	0	0	0	2	4	0	6	9
04:30 PM	0	0	0	0	0	3	0	3	0	0	0	0	1	0	0	1	4
04:45 PM	1	0	0	1	0	4	0	4	0	0	0	0	1	2	0	3	8
Total	1	4	1	6	1	10	0	11	0	1	2	3	6	9	0	15	35
05:00 PM	0	0	3	3	0	1	0	1	0	1	0	1	1	2	0	3	8
05:15 PM	0	0	3	3	0	4	0	4	0	0	0	0	1	3	0	4	11
05:30 PM	0	1	0	1	0	3	0	3	0	0	1	1	0	1	0	1	6
05:45 PM	0	0	0	0	0	5	0	5	0	0	1	1	3	3	0	6	12
Total	0	1	6	7	0	13	0	13	0	1	2	3	5	9	0	14	37
06:00 PM	0	0	3	3	0	1	0	1	0	1	0	1	1	1	0	2	7
06:15 PM	0	0	0	0	0	1	0	1	0	0	1	1	0	0	0	0	2
06:30 PM	0	0	0	0	0	2	0	2	0	0	0	0	0	4	0	4	6
06:45 PM	0	0	1	1	1	1	0	2	0	1	0	1	0	1	0	1	5
Total	0	0	4	4	1	5	0	6	0	2	1	3	1	6	0	7	20
Grand Total	1	5	11	17	2	28	0	30	0	4	5	9	12	24	0	36	92
Apprch %	5.9	29.4	64.7		6.7	93.3	0		0	44.4	55.6		33.3	66.7	0		
Total %	1.1	5.4	12	18.5	2.2	30.4	0	32.6	0	4.3	5.4	9.8	13	26.1	0	39.1	

	Ramona Avenue Southbound				Chino Hills Parkway Westbound				Ramona Avenue Northbound				Chino Hills Parkway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	**3**	**3**	0	1	0	1	0	**1**	0	**1**	1	2	0	3	8
05:15 PM	0	0	3	3	0	4	0	4	0	0	0	0	1	**3**	0	4	11
05:30 PM	0	**1**	0	1	0	3	0	3	0	0	**1**	1	0	1	0	1	6
05:45 PM	0	0	0	0	0	**5**	0	**5**	0	0	1	1	**3**	3	0	**6**	**12**
Total Volume	0	1	6	7	0	13	0	13	0	1	2	3	5	9	0	14	37
% App. Total	0	14.3	85.7		0	100	0		0	33.3	66.7		35.7	64.3	0		
PHF	.000	.250	.500	.583	.000	.650	.000	.650	.000	.250	.500	.750	.417	.750	.000	.583	.771

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File Name : 03_CHN_Ram_CHP PM
Site Code : 00324922
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Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	**3**	**3**	0	1	0	1	0	**1**	0	**1**	1	2	0	3
+15 mins.	0	0	3	3	0	4	0	4	0	0	0	0	1	**3**	0	4
+30 mins.	0	**1**	0	1	0	3	0	3	0	0	**1**	1	0	1	0	1
+45 mins.	0	0	0	0	0	**5**	0	**5**	0	0	1	1	**3**	3	0	**6**
Total Volume	0	1	6	7	0	13	0	13	0	1	2	3	5	9	0	14
% App. Total	0	14.3	85.7		0	100	0		0	33.3	66.7		35.7	64.3	0	
PHF	.000	.250	.500	.583	.000	.650	.000	.650	.000	.250	.500	.750	.417	.750	.000	.583

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File Name : 03_CHN_Ram_CHP PM
Site Code : 00324922
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Groups Printed- 3 Axle Vehicles

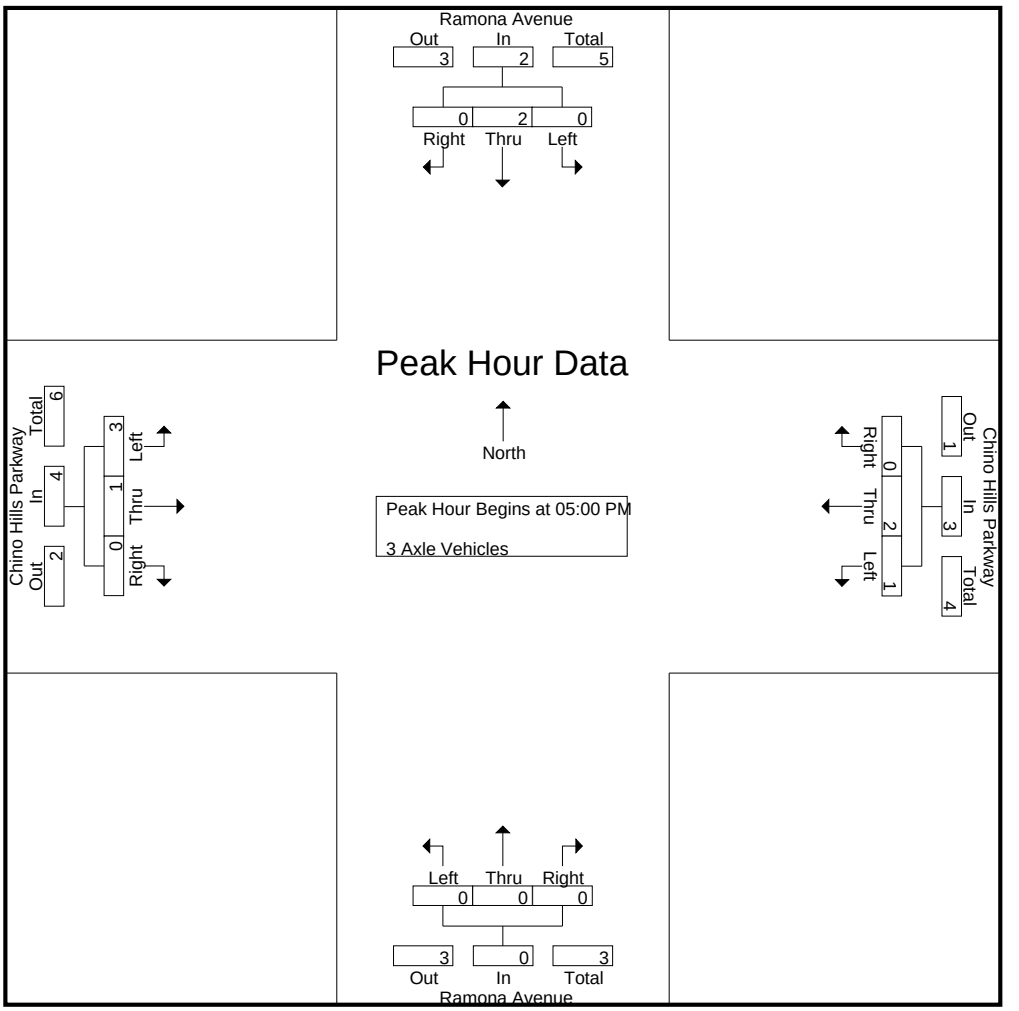
	Ramona Avenue Southbound				Chino Hills Parkway Westbound				Ramona Avenue Northbound				Chino Hills Parkway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	2
04:15 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	2
04:30 PM	0	0	0	0	0	2	0	2	0	0	0	0	1	1	0	2	4
04:45 PM	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	2
Total	0	0	1	1	0	5	0	5	0	0	0	0	2	2	0	4	10
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2
05:15 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	2
05:30 PM	0	2	0	2	1	0	0	1	0	0	0	0	1	0	0	1	4
05:45 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
Total	0	2	0	2	1	2	0	3	0	0	0	0	3	1	0	4	9
06:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
06:15 PM	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	2
06:30 PM	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
06:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	1	2	0	1	0	1	0	0	0	0	0	2	0	2	5
Grand Total	0	3	2	5	1	8	0	9	0	0	0	0	5	5	0	10	24
Apprch %	0	60	40		11.1	88.9	0		0	0	0		50	50	0		
Total %	0	12.5	8.3	20.8	4.2	33.3	0	37.5	0	0	0	0	20.8	20.8	0	41.7	

	Ramona Avenue Southbound				Chino Hills Parkway Westbound				Ramona Avenue Northbound				Chino Hills Parkway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**2**	2
05:15 PM	0	0	0	0	0	**1**	0	**1**	0	0	0	0	0	**1**	0	1	2
05:30 PM	0	**2**	0	**2**	**1**	0	0	1	0	0	0	0	1	0	0	1	**4**
05:45 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
Total Volume	0	2	0	2	1	2	0	3	0	0	0	0	3	1	0	4	9
% App. Total	0	100	0		33.3	66.7	0		0	0	0		75	25	0		
PHF	.000	.250	.000	.250	.250	.500	.000	.750	.000	.000	.000	.000	.375	.250	.000	.500	.563

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Corona, CA 92878
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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Parkway
Weather: Clear

File Name : 03_CHN_Ram_CHP PM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 2



Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**2**
+15 mins.	0	0	0	0	0	**1**	0	**1**	0	0	0	0	0	**1**	0	1
+30 mins.	0	**2**	0	**2**	**1**	0	0	1	0	0	0	0	1	0	0	1
+45 mins.	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
Total Volume	0	2	0	2	1	2	0	3	0	0	0	0	3	1	0	4
% App. Total	0	100	0		33.3	66.7	0		0	0	0		75	25	0	
PHF	.000	.250	.000	.250	.250	.500	.000	.750	.000	.000	.000	.000	.375	.250	.000	.500

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Parkway
Weather: Clear

File Name : 03_CHN_Ram_CHP PM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

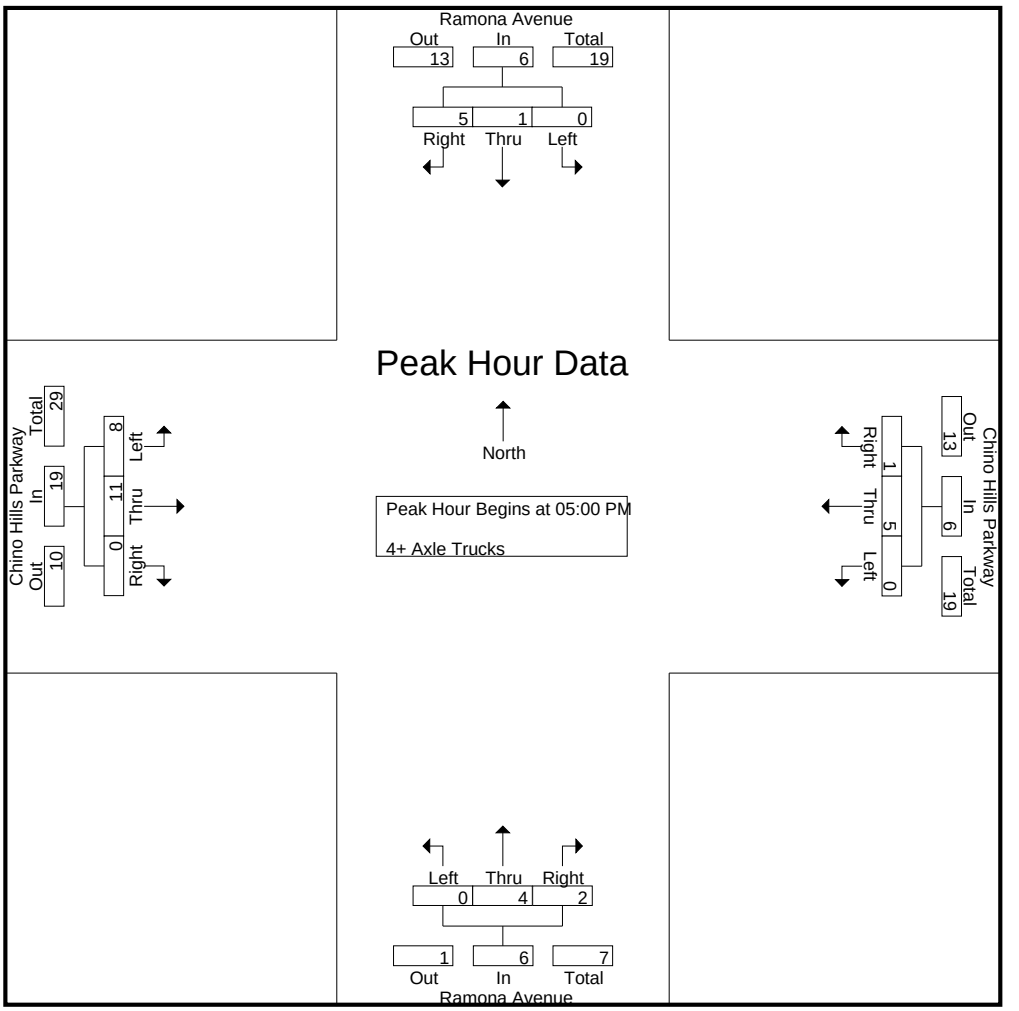
	Ramona Avenue Southbound				Chino Hills Parkway Westbound				Ramona Avenue Northbound				Chino Hills Parkway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	1	3	4	0	2	0	2	0	1	0	1	0	1	0	1	8
04:15 PM	0	0	2	2	1	2	0	3	0	0	1	1	1	1	0	2	8
04:30 PM	0	0	2	2	1	2	0	3	0	1	0	1	2	2	0	4	10
04:45 PM	0	1	1	2	0	2	0	2	0	4	0	4	2	3	0	5	13
Total	0	2	8	10	2	8	0	10	0	6	1	7	5	7	0	12	39
05:00 PM	0	0	0	0	0	1	0	1	0	3	1	4	0	6	0	6	11
05:15 PM	0	0	1	1	0	1	0	1	0	1	1	2	2	0	0	2	6
05:30 PM	0	0	1	1	0	1	1	2	0	0	0	0	1	3	0	4	7
05:45 PM	0	1	3	4	0	2	0	2	0	0	0	0	5	2	0	7	13
Total	0	1	5	6	0	5	1	6	0	4	2	6	8	11	0	19	37
06:00 PM	0	1	2	3	0	3	0	3	0	0	0	0	2	2	0	4	10
06:15 PM	0	0	2	2	0	1	0	1	0	1	0	1	1	2	0	3	7
06:30 PM	0	0	1	1	0	2	0	2	0	1	0	1	1	5	0	6	10
06:45 PM	0	1	1	2	0	2	0	2	0	0	0	0	1	2	0	3	7
Total	0	2	6	8	0	8	0	8	0	2	0	2	5	11	0	16	34
Grand Total	0	5	19	24	2	21	1	24	0	12	3	15	18	29	0	47	110
Apprch %	0	20.8	79.2		8.3	87.5	4.2		0	80	20		38.3	61.7	0		
Total %	0	4.5	17.3	21.8	1.8	19.1	0.9	21.8	0	10.9	2.7	13.6	16.4	26.4	0	42.7	

	Ramona Avenue Southbound				Chino Hills Parkway Westbound				Ramona Avenue Northbound				Chino Hills Parkway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	1	0	1	0	**3**	**1**	**4**	0	**6**	0	6	11
05:15 PM	0	0	1	1	0	1	0	1	0	1	1	2	2	0	0	2	6
05:30 PM	0	0	1	1	0	1	**1**	**2**	0	0	0	0	1	3	0	4	7
05:45 PM	0	**1**	**3**	**4**	0	**2**	0	2	0	0	0	0	**5**	2	0	**7**	**13**
Total Volume	0	1	5	6	0	5	1	6	0	4	2	6	8	11	0	19	37
% App. Total	0	16.7	83.3		0	83.3	16.7		0	66.7	33.3		42.1	57.9	0		
PHF	.000	.250	.417	.375	.000	.625	.250	.750	.000	.333	.500	.375	.400	.458	.000	.679	.712

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City of Chino
N/S: Ramona Avenue
E/W: Chino Hills Parkway
Weather: Clear

File Name : 03_CHN_Ram_CHP PM
Site Code : 00324922
Start Date : 10/22/2024
Page No : 2



Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	0	0	0	1	0	1	0	**3**	**1**	**4**	0	**6**	0	6
+15 mins.	0	0	1	1	0	1	0	1	0	1	1	2	2	0	0	2
+30 mins.	0	0	1	1	0	1	**1**	**2**	0	0	0	0	1	3	0	4
+45 mins.	0	**1**	**3**	**4**	0	**2**	0	2	0	0	0	0	**5**	2	0	**7**
Total Volume	0	1	5	6	0	5	1	6	0	4	2	6	8	11	0	19
% App. Total	0	16.7	83.3		0	83.3	16.7		0	66.7	33.3		42.1	57.9	0	
PHF	.000	.250	.417	.375	.000	.625	.250	.750	.000	.333	.500	.375	.400	.458	.000	.679

Location: Chino
N/S: Ramona Avenue
E/W: Chino Hills Parkway

Date: 10/22/2024
Day: Tuesday

PEDESTRIANS

	North Leg Ramona Avenue Pedestrians	East Leg Chino Hills Parkway Pedestrians	South Leg Ramona Avenue Pedestrians	West Leg Chino Hills Parkway Pedestrians	
6:00 AM	0	0	1	1	2
6:15 AM	0	0	1	1	2
6:30 AM	0	0	0	0	0
6:45 AM	1	1	2	1	5
7:00 AM	0	0	0	1	1
7:15 AM	0	0	0	7	7
7:30 AM	0	0	1	0	1
7:45 AM	0	1	2	0	3
8:00 AM	0	0	0	1	1
8:15 AM	0	0	1	1	2
8:30 AM	0	0	1	1	2
8:45 AM	0	0	0	0	0
TOTAL VOLUMES:	1	2	9	14	26

	North Leg Ramona Avenue Pedestrians	East Leg Chino Hills Parkway Pedestrians	South Leg Ramona Avenue Pedestrians	West Leg Chino Hills Parkway Pedestrians	
4:00 PM	1	1	0	1	3
4:15 PM	0	0	0	0	0
4:30 PM	1	3	0	0	4
4:45 PM	0	0	0	0	0
5:00 PM	3	2	0	0	5
5:15 PM	1	2	1	1	5
5:30 PM	1	0	0	1	2
5:45 PM	0	6	0	0	6
6:00 PM	1	38	0	2	41
6:15 PM	0	56	1	0	57
6:30 PM	0	44	0	0	44
6:45 PM	0	53	0	0	53
TOTAL VOLUMES:	8	205	2	5	220

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Location: Chino
N/S: Ramona Avenue
E/W: Chino Hills Parkway

Date: 10/22/2024
Day: Tuesday

BICYCLES

	Southbound Ramona Avenue			Westbound Chino Hills Parkway			Northbound Ramona Avenue			Eastbound Chino Hills Parkway			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	1	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0	0	0	2	1	0	1	0	4

	Southbound Ramona Avenue			Westbound Chino Hills Parkway			Northbound Ramona Avenue			Eastbound Chino Hills Parkway			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	1
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	1	0	0	0	0	0	0	0	0	1
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 PM	1	0	0	0	0	0	0	0	0	0	0	0	1
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	1
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	1	1	0	1	0	2	0	0	0	0	0	0	5

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City of Chino
Traffic Signal Timing Sheet
For the Intersection of:

Ramona @ Chino Hills

REGISTERED PROFESSIONAL ENGINEER
JOSE ALFREDO ALIRE
No. 2058
Exp. 6-30-20
TRAFFIC
STATE OF CALIFORNIA

T. Plan Imp. Date: _____

By: K Date: 8/30/18 Check By: JA Date: 8/30/18 Approved By: JA Date: 8.30.18

	Phase	1	2	3	4	5	6	7	8
	Diagram (N)	↳	↑ ↕	↰	→ ⇢	↰	↕ ↓	↱	⇢ ←
Timing Data (Seconds)	Minimum Green	7	10	7	10	7	10	7	10
	Bike Minimum Green	7	10	7	10	7	10	7	10
	Walk		5		5		5		5
	Pedestrian Clearance (FDW)		25		23		25		21
	Yellow	3.0	5.0	3.0	4.3	3.0	5.0	3.0	4.3
	Red Clearance (All red)	1	1	1	1	1	1	1	1
	Red Revert	2	2	2	2	2	2	2	2
	Minimum Veh Extension (Presence)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Veh Extension (Advance)		3.2		2.9		1.4		2.9
	Max Extension/Dynamic Step	5	5	5	5	5	5	5	5
	Max 1	15	25	15	30	15	25	15	30
	Max 2								
	Max 3/Dynamic Max	25	35	25	40	25	35	25	40
Data	Phases in Use	x	x	x	x	x	x	x	x
	Soft Recall				x				x
	Dual Entry		x		x		x		x
Start Up	Power Start Phases				x				x
	External Start Phases				x				x
	Power Start Interval	Red			Yellow			Green	
	External Start Interval	Red			Yellow			Green	
	Power Start Red Flash Time	6	Seconds						
	Power Start All Red Time	6	Seconds						
	Backup Prevent Phase	2\1		4\3		6\5		8\7	

APPENDIX C

VOLUME DEVELOPMENT WORKSHEETS

LSA

Table C.1: Existing Peak Hour PCE Volume Summary

	A.M. Peak Hour				P.M. Peak Hour			
	Unadjusted Exist (2024) w/o Project	Balanced Exist (2024) w/o Project	Project Trips	Existing Plus Project	Unadjusted Exist (2024) w/o Project	Balanced Exist (2024) w/o Project	Project Trips	Existing Plus Project
1 Ramona Avenue/Corporate Center Avenue								
NBL	21	21	8	29	29	33	25	58
NBT	851	851	0	851	717	816	0	816
NBR	0	0	0	0	0	0	0	0
SBL	0	0	0	0	0	0	0	0
SBT	629	629	0	629	875	858	0	858
SBR	22	22	3	25	14	14	11	25
EBL	20	20	10	30	15	15	6	21
EBT	0	0	0	0	0	0	0	0
EBR	23	23	23	46	21	21	15	36
WBL	0	0	0	0	0	0	0	0
WBT	0	0	0	0	0	0	0	0
WBR	0	0	0	0	0	0	0	0
North Leg								
Approach	651	651	3	654	889	872	11	883
Departure	871	871	10	881	732	831	6	837
Total	1,522	1,522	13	1,535	1,621	1,703	17	1,720
South Leg								
Approach	872	872	8	880	746	849	25	874
Departure	652	652	23	675	896	879	15	894
Total	1,524	1,524	31	1,555	1,642	1,728	40	1,768
East Leg								
Approach	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
West Leg								
Approach	43	43	33	76	36	36	21	57
Departure	43	43	11	54	43	47	36	83
Total	86	86	44	130	79	83	57	140
Total Approaches								
Approach	1,566	1,566	44	1,610	1,671	1,757	57	1,814
Departure	1,566	1,566	44	1,610	1,671	1,757	57	1,814
Total	3,132	3,132	88	3,220	3,342	3,514	114	3,628

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Table C.1: Existing Peak Hour PCE Volume Summary

	A.M. Peak Hour				P.M. Peak Hour			
	Unadjusted Exist (2024) w/o Project	Balanced Exist (2024) w/o Project	Project Trips	Existing Plus Project	Unadjusted Exist (2024) w/o Project	Balanced Exist (2024) w/o Project	Project Trips	Existing Plus Project
2 Ramona Avenue/Chino Hills Parkway								
NBL	21	21	0	21	24	24	0	24
NBT	447	471	2	473	339	358	7	365
NBR	95	95	0	95	155	155	0	155
SBL	80	88	3	91	157	152	2	154
SBT	218	241	7	248	392	378	4	382
SBR	290	321	13	334	368	355	8	363
EBL	315	332	4	336	303	320	14	334
EBT	607	607	0	607	946	946	0	946
EBR	4	4	0	4	6	6	0	6
WBL	65	65	0	65	93	93	0	93
WBT	792	792	0	792	720	720	0	720
WBR	73	77	1	78	163	172	4	176
North Leg								
Approach	588	650	23	673	917	885	14	899
Departure	835	880	7	887	805	850	25	875
Total	1,423	1,530	30	1,560	1,722	1,735	39	1,774
South Leg								
Approach	563	587	2	589	518	537	7	544
Departure	287	310	7	317	491	477	4	481
Total	850	897	9	906	1,009	1,014	11	1,025
East Leg								
Approach	930	934	1	935	976	985	4	989
Departure	782	790	3	793	1,258	1,253	2	1,255
Total	1,712	1,724	4	1,728	2,234	2,238	6	2,244
West Leg								
Approach	926	943	4	947	1,255	1,272	14	1,286
Departure	1,103	1,134	13	1,147	1,112	1,099	8	1,107
Total	2,029	2,077	17	2,094	2,367	2,371	22	2,393
Total Approaches								
Approach	3,007	3,114	30	3,144	3,666	3,679	39	3,718
Departure	3,007	3,114	30	3,144	3,666	3,679	39	3,718
Total	6,014	6,228	60	6,288	7,332	7,358	78	7,436

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Table C.1: Existing Peak Hour PCE Volume Summary

	A.M. Peak Hour				P.M. Peak Hour			
	Unadjusted Exist (2024) w/o Project	Balanced Exist (2024) w/o Project	Project Trips	Existing Plus Project	Unadjusted Exist (2024) w/o Project	Balanced Exist (2024) w/o Project	Project Trips	Existing Plus Project
3 Project Driveway/Corporate Center Avenue								
NBL		0	0	0		0	0	0
NBT		0	0	0		0	0	0
NBR		0	33	33		0	21	21
SBL		0	0	0		0	0	0
SBT		0	0	0		0	0	0
SBR		0	0	0		0	0	0
EBL		0	0	0		0	0	0
EBT	43	43	0	43	36	36	0	36
EBR		0	0	0		0	0	0
WBL		0	11	11		0	35	35
WBT	43	43	0	43	43	43	0	43
WBR		0	0	0		0	0	0
North Leg								
Approach	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
South Leg								
Approach	0	0	33	33	0	0	21	21
Departure	0	0	11	11	0	0	35	35
Total	0	0	44	44	0	0	56	56
East Leg								
Approach	43	43	11	54	43	43	35	78
Departure	43	43	33	76	36	36	21	57
Total	86	86	44	130	79	79	56	135
West Leg								
Approach	43	43	0	43	36	36	0	36
Departure	43	43	0	43	43	43	0	43
Total	86	86	0	86	79	79	0	79
Total Approaches								
Approach	86	86	44	130	79	79	56	135
Departure	86	86	44	130	79	79	56	135
Total	172	172	88	260	158	158	112	270

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Table C.1: Existing Peak Hour PCE Volume Summary

	A.M. Peak Hour				P.M. Peak Hour			
	Unadjusted Exist (2024) w/o Project	Balanced Exist (2024) w/o Project	Project Trips	Existing Plus Project	Unadjusted Exist (2024) w/o Project	Balanced Exist (2024) w/o Project	Project Trips	Existing Plus Project
4 Ramona Avenue/Ford Driveway								
NBL	11	11	0	11	6	6	0	6
NBT	867	869	8	877	844	844	25	869
NBR	0	0	0	0	0	0	0	0
SBL	0	0	0	0	0	0	0	0
SBT	640	642	23	665	871	871	15	886
SBR	10	10	0	10	8	8	0	8
EBL	3	3	0	3	5	5	0	5
EBT	0	0	0	0	0	0	0	0
EBR	8	8	0	8	14	14	0	14
WBL	0	0	0	0	0	0	0	0
WBT	0	0	0	0	0	0	0	0
WBR	0	0	0	0	0	0	0	0
North Leg								
Approach	650	652	23	675	879	879	15	894
Departure	870	872	8	880	849	849	25	874
Total	1,520	1,524	31	1,555	1,728	1,728	40	1,768
South Leg								
Approach	878	880	8	888	850	850	25	875
Departure	648	650	23	673	885	885	15	900
Total	1,526	1,530	31	1,561	1,735	1,735	40	1,775
East Leg								
Approach	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
West Leg								
Approach	11	11	0	11	19	19	0	19
Departure	21	21	0	21	14	14	0	14
Total	32	32	0	32	33	33	0	33
Total Approaches								
Approach	1,539	1,543	31	1,574	1,748	1,748	40	1,788
Departure	1,539	1,543	31	1,574	1,748	1,748	40	1,788
Total	3,078	3,086	62	3,148	3,496	3,496	80	3,576

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Table C.2: Near-Term Peak Hour PCE Volume Summary

	AM Peak Hour						PM Peak Hour					
	Exist (2024) w/o Project Volumes	2024 to 2026 Growth	Cumulative Project Trips	Near-Term w/o Project Volumes	Project Trips	Near-Term w/ Project Volumes	Exist (2024) w/o Project Volumes	2024 to 2026 Growth	Cumulative Project Trips	Near-Term w/o Project Volumes	Project Trips	Near-Term w/ Project Volumes
1 Ramona Avenue/Corporate Center Avenue												
NBL	21	1	0	22	8	30	33	1	0	34	25	59
NBT	851	34	94	979	0	979	816	33	53	902	0	902
NBR	0	0	0	0	0	0	0	0	0	0	0	0
SBL	0	0	0	0	0	0	0	0	0	0	0	0
SBT	629	25	43	697	0	697	858	34	82	974	0	974
SBR	22	1	0	23	3	26	14	1	0	15	11	26
EBL	20	1	0	21	10	31	15	1	0	16	6	22
EBT	0	0	0	0	0	0	0	0	0	0	0	0
EBR	23	1	0	24	23	47	21	1	0	22	15	37
WBL	0	0	0	0	0	0	0	0	0	0	0	0
WBT	0	0	0	0	0	0	0	0	0	0	0	0
WBR	0	0	0	0	0	0	0	0	0	0	0	0
North Leg												
Approach	651	26	43	720	3	723	872	35	82	989	11	1,000
Departure	871	35	94	1,000	10	1,010	831	34	53	918	6	924
Total	1,522	61	137	1,720	13	1,733	1,703	69	135	1,907	17	1,924
South Leg												
Approach	872	35	94	1,001	8	1,009	849	34	53	936	25	961
Departure	652	26	43	721	23	744	879	35	82	996	15	1,011
Total	1,524	61	137	1,722	31	1,753	1,728	69	135	1,932	40	1,972
East Leg												
Approach	0	0	0	0	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
West Leg												
Approach	43	2	0	45	33	78	36	2	0	38	21	59
Departure	43	2	0	45	11	56	47	2	0	49	36	85
Total	86	4	0	90	44	134	83	4	0	87	57	144
Total Approaches												
Approach	1,566	63	137	1,766	44	1,810	1,757	71	135	1,963	57	2,020
Departure	1,566	63	137	1,766	44	1,810	1,757	71	135	1,963	57	2,020
Total	3,132	126	274	3,532	88	3,620	3,514	142	270	3,926	114	4,040

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Table C.2: Near-Term Peak Hour PCE Volume Summary

	AM Peak Hour						PM Peak Hour					
	Exist (2024) w/o Project Volumes	2024 to 2026 Growth	Cumulative Project Trips	Near-Term w/o Project Volumes	Project Trips	Near-Term w/ Project Volumes	Exist (2024) w/o Project Volumes	2024 to 2026 Growth	Cumulative Project Trips	Near-Term w/o Project Volumes	Project Trips	Near-Term w/ Project Volumes
2 Ramona Avenue/Chino Hills Parkway												
NBL	21	1	0	22	0	22	24	1	0	25	0	25
NBT	471	19	71	561	2	563	358	14	34	406	7	413
NBR	95	4	29	128	0	128	155	6	33	194	0	194
SBL	88	4	6	98	3	101	152	6	10	168	2	170
SBT	241	10	29	280	7	287	378	15	62	455	4	459
SBR	321	13	8	342	13	355	355	14	9	378	8	386
EBL	332	13	12	357	4	361	320	13	9	342	14	356
EBT	607	24	26	657	0	657	946	38	46	1,030	0	1,030
EBR	4	0	0	4	0	4	6	0	0	6	0	6
WBL	65	3	35	103	0	103	93	4	33	130	0	130
WBT	792	32	48	872	0	872	720	29	34	783	0	783
WBR	77	3	11	91	1	92	172	7	9	188	4	192
North Leg												
Approach	650	27	43	720	23	743	885	35	81	1,001	14	1,015
Departure	880	35	94	1,009	7	1,016	850	34	52	936	25	961
Total	1,530	62	137	1,729	30	1,759	1,735	69	133	1,937	39	1,976
South Leg												
Approach	587	24	100	711	2	713	537	21	67	625	7	632
Departure	310	13	64	387	7	394	477	19	95	591	4	595
Total	897	37	164	1,098	9	1,107	1,014	40	162	1,216	11	1,227
East Leg												
Approach	934	38	94	1,066	1	1,067	985	40	76	1,101	4	1,105
Departure	790	32	61	883	3	886	1,253	50	89	1,392	2	1,394
Total	1,724	70	155	1,949	4	1,953	2,238	90	165	2,493	6	2,499
West Leg												
Approach	943	37	38	1,018	4	1,022	1,272	51	55	1,378	14	1,392
Departure	1,134	46	56	1,236	13	1,249	1,099	44	43	1,186	8	1,194
Total	2,077	83	94	2,254	17	2,271	2,371	95	98	2,564	22	2,586
Total Approaches												
Approach	3,114	126	275	3,515	30	3,545	3,679	147	279	4,105	39	4,144
Departure	3,114	126	275	3,515	30	3,545	3,679	147	279	4,105	39	4,144
Total	6,228	252	550	7,030	60	7,090	7,358	294	558	8,210	78	8,288

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Table C.2: Near-Term Peak Hour PCE Volume Summary

	AM Peak Hour						PM Peak Hour					
	Exist (2024) w/o Project Volumes	2024 to 2026 Growth	Cumulative Project Trips	Near-Term w/o Project Volumes	Project Trips	Near-Term w/ Project Volumes	Exist (2024) w/o Project Volumes	2024 to 2026 Growth	Cumulative Project Trips	Near-Term w/o Project Volumes	Project Trips	Near-Term w/ Project Volumes
3 Project Driveway/Corporate Center Avenue												
NBL	0	0	0	0	0	0	0	0	0	0	0	0
NBT	0	0	0	0	0	0	0	0	0	0	0	0
NBR	0	0	0	0	33	33	0	0	0	0	21	21
SBL	0	0	0	0	0	0	0	0	0	0	0	0
SBT	0	0	0	0	0	0	0	0	0	0	0	0
SBR	0	0	0	0	0	0	0	0	0	0	0	0
EBL	0	0	0	0	0	0	0	0	0	0	0	0
EBT	43	2	0	45	0	45	36	1	0	37	0	37
EBR	0	0	0	0	0	0	0	0	0	0	0	0
WBL	0	0	0	0	11	11	0	0	0	0	35	35
WBT	43	2	0	45	0	45	43	2	0	45	0	45
WBR	0	0	0	0	0	0	0	0	0	0	0	0
North Leg												
Approach	0	0	0	0	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
South Leg												
Approach	0	0	0	0	33	33	0	0	0	0	21	21
Departure	0	0	0	0	11	11	0	0	0	0	35	35
Total	0	0	0	0	44	44	0	0	0	0	56	56
East Leg												
Approach	43	2	0	45	11	56	43	2	0	45	35	80
Departure	43	2	0	45	33	78	36	1	0	37	21	58
Total	86	4	0	90	44	134	79	3	0	82	56	138
West Leg												
Approach	43	2	0	45	0	45	36	1	0	37	0	37
Departure	43	2	0	45	0	45	43	2	0	45	0	45
Total	86	4	0	90	0	90	79	3	0	82	0	82
Total Approaches												
Approach	86	4	0	90	44	134	79	3	0	82	56	138
Departure	86	4	0	90	44	134	79	3	0	82	56	138
Total	172	8	0	180	88	268	158	6	0	164	112	276

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Table C.2: Near-Term Peak Hour PCE Volume Summary

	AM Peak Hour						PM Peak Hour					
	Exist (2024) w/o Project Volumes	2024 to 2026 Growth	Cumulative Project Trips	Near-Term w/o Project Volumes	Project Trips	Near-Term w/ Project Volumes	Exist (2024) w/o Project Volumes	2024 to 2026 Growth	Cumulative Project Trips	Near-Term w/o Project Volumes	Project Trips	Near-Term w/ Project Volumes
4 Ramona Avenue/Ford Driveway												
NBL	11	0	0	11	0	11	6	0	0	6	0	6
NBT	869	35	94	998	8	1,006	844	34	53	931	25	956
NBR	0	0	0	0	0	0	0	0	0	0	0	0
SBL	0	0	0	0	0	0	0	0	0	0	0	0
SBT	642	26	43	711	23	734	871	35	82	988	15	1,003
SBR	10	0	0	10	0	10	8	0	0	8	0	8
EBL	3	0	0	3	0	3	5	0	0	5	0	5
EBT	0	0	0	0	0	0	0	0	0	0	0	0
EBR	8	0	0	8	0	8	14	1	0	15	0	15
WBL	0	0	0	0	0	0	0	0	0	0	0	0
WBT	0	0	0	0	0	0	0	0	0	0	0	0
WBR	0	0	0	0	0	0	0	0	0	0	0	0
North Leg												
Approach	652	26	43	721	23	744	879	35	82	996	15	1,011
Departure	872	35	94	1,001	8	1,009	849	34	53	936	25	961
Total	1,524	61	137	1,722	31	1,753	1,728	69	135	1,932	40	1,972
South Leg												
Approach	880	35	94	1,009	8	1,017	850	34	53	937	25	962
Departure	650	26	43	719	23	742	885	36	82	1,003	15	1,018
Total	1,530	61	137	1,728	31	1,759	1,735	70	135	1,940	40	1,980
East Leg												
Approach	0	0	0	0	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
West Leg												
Approach	11	0	0	11	0	11	19	1	0	20	0	20
Departure	21	0	0	21	0	21	14	0	0	14	0	14
Total	32	0	0	32	0	32	33	1	0	34	0	34
Total Approaches												
Approach	1,543	61	137	1,741	31	1,772	1,748	70	135	1,953	40	1,993
Departure	1,543	61	137	1,741	31	1,772	1,748	70	135	1,953	40	1,993
Total	3,086	122	274	3,482	62	3,544	3,496	140	270	3,906	80	3,986

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Table C.3: Horizon Year Peak Hour PCE Volume Summary

	AM Peak Hour				PM Peak Hour			
	Unadjusted Horizon Year w/o Project	Balanced Horizon Year w/o Project	Net Project Trips	Build-Out w/ Project Volumes	Unadjusted Horizon Year w/o Project	Balanced Horizon Year w/o Project	Net Project Trips	Build-Out w/ Project Volumes
1 Ramona Avenue/Corporate Center Avenue								
NBL	34	34	8	42	51	50	25	75
NBT	1,028	1,028	0	1,028	947	929	0	929
NBR	0	0	0	0	0	0	0	0
SBL	0	0	0	0	0	0	0	0
SBT	732	732	0	732	1,023	1,041	0	1,041
SBR	31	31	3	34	20	20	11	31
EBL	30	30	10	40	22	22	6	28
EBT	0	0	0	0	0	0	0	0
EBR	35	35	23	58	33	34	15	49
WBL	0	0	0	0	0	0	0	0
WBT	0	0	0	0	0	0	0	0
WBR	0	0	0	0	0	0	0	0
North Leg								
Approach	763	763	3	766	1,043	1,061	11	1,072
Departure	1,058	1,058	10	1,068	969	951	6	957
Total	1,821	1,821	13	1,834	2,012	2,012	17	2,029
South Leg								
Approach	1,062	1,062	8	1,070	998	979	25	1,004
Departure	767	767	23	790	1,056	1,075	15	1,090
Total	1,829	1,829	31	1,860	2,054	2,054	40	2,094
East Leg								
Approach	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
West Leg								
Approach	65	65	33	98	55	56	21	77
Departure	65	65	11	76	71	70	36	106
Total	130	130	44	174	126	126	57	183
Total Approaches								
Approach	1,890	1,890	44	1,934	2,096	2,096	57	2,153
Departure	1,890	1,890	44	1,934	2,096	2,096	57	2,153
Total	3,780	3,780	88	3,868	4,192	4,192	114	4,306

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Table C.3: Horizon Year Peak Hour PCE Volume Summary

		AM Peak Hour				PM Peak Hour			
		Unadjusted Horizon Year w/o Project	Balanced Horizon Year w/o Project	Net Project Trips	Build-Out w/ Project Volumes	Unadjusted Horizon Year w/o Project	Balanced Horizon Year w/o Project	Net Project Trips	Build-Out w/ Project Volumes
2	**Ramona Avenue/Chino Hills Parkway**								
NBL		24	24	0	24	30	30	0	30
NBT		589	594	2	596	426	426	7	433
NBR		133	133	0	133	204	204	0	204
SBL		103	104	3	107	176	176	2	178
SBT		294	297	7	304	478	478	4	482
SBR		359	363	13	376	429	429	8	437
EBL		377	380	4	384	359	359	14	373
EBT		987	987	0	987	1,082	1,082	0	1,082
EBR		6	6	0	6	6	6	0	6
WBL		108	108	0	108	137	137	0	137
WBT		908	908	0	908	956	956	0	956
WBR		96	97	1	98	195	195	4	199
North Leg									
	Approach	756	764	23	787	1,083	1,083	14	1,097
	Departure	1,062	1,071	7	1,078	980	980	25	1,005
	Total	1,818	1,835	30	1,865	2,063	2,063	39	2,102
South Leg									
	Approach	746	751	2	753	660	660	7	667
	Departure	408	411	7	418	621	621	4	625
	Total	1,154	1,162	9	1,171	1,281	1,281	11	1,292
East Leg									
	Approach	1,112	1,113	1	1,114	1,288	1,288	4	1,292
	Departure	1,223	1,224	3	1,227	1,462	1,462	2	1,464
	Total	2,335	2,337	4	2,341	2,750	2,750	6	2,756
West Leg									
	Approach	1,370	1,373	4	1,377	1,447	1,447	14	1,461
	Departure	1,291	1,295	13	1,308	1,415	1,415	8	1,423
	Total	2,661	2,668	17	2,685	2,862	2,862	22	2,884
Total Approaches									
	Approach	3,984	4,001	30	4,031	4,478	4,478	39	4,517
	Departure	3,984	4,001	30	4,031	4,478	4,478	39	4,517
	Total	7,968	8,002	60	8,062	8,956	8,956	78	9,034

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Table C.3: Horizon Year Peak Hour PCE Volume Summary

	AM Peak Hour				PM Peak Hour			
	Unadjusted Horizon Year w/o Project	Balanced Horizon Year w/o Project	Net Project Trips	Build-Out w/ Project Volumes	Unadjusted Horizon Year w/o Project	Balanced Horizon Year w/o Project	Net Project Trips	Build-Out w/ Project Volumes
3 Project Driveway/Corporate Center Avenue								
NBL	0	0	0	0	0	0	0	0
NBT	0	0	0	0	0	0	0	0
NBR	0	0	33	33	0	0	21	21
SBL	0	0	0	0	0	0	0	0
SBT	0	0	0	0	0	0	0	0
SBR	0	0	0	0	0	0	0	0
EBL	0	0	0	0	0	0	0	0
EBT	118	118	0	118	155	155	0	155
EBR	0	0	0	0	0	0	0	0
WBL	0	0	11	11	0	0	35	35
WBT	123	123	0	123	149	149	0	149
WBR	0	0	0	0	0	0	0	0
North Leg								
Approach	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
South Leg								
Approach	0	0	33	33	0	0	21	21
Departure	0	0	11	11	0	0	35	35
Total	0	0	44	44	0	0	56	56
East Leg								
Approach	123	123	11	134	149	149	35	184
Departure	118	118	33	151	155	155	21	176
Total	241	241	44	285	304	304	56	360
West Leg								
Approach	118	118	0	118	155	155	0	155
Departure	123	123	0	123	149	149	0	149
Total	241	241	0	241	304	304	0	304
Total Approaches								
Approach	241	241	44	285	304	304	56	360
Departure	241	241	44	285	304	304	56	360
Total	482	482	88	570	608	608	112	720

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Table C.3: Horizon Year Peak Hour PCE Volume Summary

		AM Peak Hour				PM Peak Hour			
		Unadjusted Horizon Year w/o Project	Balanced Horizon Year w/o Project	Net Project Trips	Build-Out w/ Project Volumes	Unadjusted Horizon Year w/o Project	Balanced Horizon Year w/o Project	Net Project Trips	Build-Out w/ Project Volumes
4	**Ramona Avenue/Ford Driveway**								
NBL		12	12	0	12	6	6	0	6
NBT		1,048	1,059	8	1,067	978	974	25	999
NBR		0	0	0	0	0	0	0	0
SBL		0	0	0	0	0	0	0	0
SBT		747	756	23	779	1,037	1,067	15	1,082
SBR		11	11	0	11	8	8	0	8
EBL		3	3	0	3	5	5	0	5
EBT		0	0	0	0	0	0	0	0
EBR		8	8	0	8	16	16	0	16
WBL		0	0	0	0	0	0	0	0
WBT		0	0	0	0	0	0	0	0
WBR		0	0	0	0	0	0	0	0
North Leg									
	Approach	758	767	23	790	1,045	1,075	15	1,090
	Departure	1,051	1,062	8	1,070	983	979	25	1,004
	Total	1,809	1,829	31	1,860	2,028	2,054	40	2,094
South Leg									
	Approach	1,060	1,071	8	1,079	984	980	25	1,005
	Departure	755	764	23	787	1,053	1,083	15	1,098
	Total	1,815	1,835	31	1,866	2,037	2,063	40	2,103
East Leg									
	Approach	0	0	0	0	0	0	0	0
	Departure	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0
West Leg									
	Approach	11	11	0	11	21	21	0	21
	Departure	23	23	0	23	14	14	0	14
	Total	34	34	0	34	35	35	0	35
Total Approaches									
	Approach	1,829	1,849	31	1,880	2,050	2,076	40	2,116
	Departure	1,829	1,849	31	1,880	2,050	2,076	40	2,116
	Total	3,658	3,698	62	3,760	4,100	4,152	80	4,232

APPENDIX D

LEVEL OF SERVICE REPORTS

Intersection	
Int Delay, s/veh	0.5

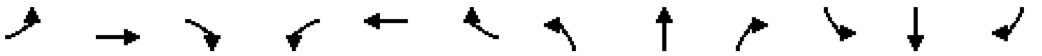
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	20	23	21	851	629	22
Future Vol, veh/h	20	23	21	851	629	22
Conflicting Peds, #/hr	0	0	4	0	0	4
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	175	0	145	-	-	50
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	10	10	3	3	5	5
Mvmt Flow	23	27	24	990	731	26

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1279	370	761	0	-	0
Stage 1	735	-	-	-	-	-
Stage 2	544	-	-	-	-	-
Critical Hdwy	7	7.1	4.16	-	-	-
Critical Hdwy Stg 1	6	-	-	-	-	-
Critical Hdwy Stg 2	6	-	-	-	-	-
Follow-up Hdwy	3.6	3.4	2.23	-	-	-
Pot Cap-1 Maneuver	*238	605	840	-	-	-
Stage 1	*415	-	-	-	-	-
Stage 2	*785	-	-	-	-	-
Platoon blocked, %	0			-	-	-
Mov Cap-1 Maneuver	*230	603	837	-	-	-
Mov Cap-2 Maneuver	*329	-	-	-	-	-
Stage 1	*401	-	-	-	-	-
Stage 2	*782	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	13.82	0.23	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	837	-	329	603	-	-
HCM Lane V/C Ratio	0.029	-	0.071	0.044	-	-
HCM Ctrl Dly (s/v)	9.4	-	16.8	11.2	-	-
HCM Lane LOS	A	-	C	B	-	-
HCM 95th %tile Q(veh)	0.1	-	0.2	0.1	-	-

Notes	
~: Volume exceeds capacity	$: Delay exceeds 300s
+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	332	607	4	65	792	77	21	471	95	88	241	321
Future Volume (veh/h)	332	607	4	65	792	77	21	471	95	88	241	321
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1826	1826	1826	1856	1856	1856	1826	1826	1826
Adj Flow Rate, veh/h	365	667	4	71	870	85	23	518	104	97	265	353
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	4	4	4	5	5	5	3	3	3	5	5	5
Cap, veh/h	432	1764	11	99	944	419	57	1243	551	124	1359	602
Arrive On Green	0.13	0.34	0.34	0.06	0.27	0.27	0.03	0.35	0.35	0.07	0.39	0.39
Sat Flow, veh/h	3401	5154	31	1739	3469	1542	1767	3526	1562	1739	3469	1538
Grp Volume(v), veh/h	365	433	238	71	870	85	23	518	104	97	265	353
Grp Sat Flow(s),veh/h/ln	1700	1675	1835	1739	1735	1542	1767	1763	1562	1739	1735	1538
Q Serve(g_s), s	11.4	10.7	10.7	4.4	26.6	4.6	1.4	12.2	5.0	6.0	5.5	19.8
Cycle Q Clear(g_c), s	11.4	10.7	10.7	4.4	26.6	4.6	1.4	12.2	5.0	6.0	5.5	19.8
Prop In Lane	1.00		0.02	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	432	1147	628	99	944	419	57	1243	551	124	1359	602
V/C Ratio(X)	0.84	0.38	0.38	0.72	0.92	0.20	0.40	0.42	0.19	0.78	0.20	0.59
Avail Cap(c_a), veh/h	468	1147	628	239	955	424	243	1243	551	239	1359	602
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.5	27.1	27.1	50.6	38.6	30.6	51.7	26.8	24.5	49.8	21.8	26.2
Incr Delay (d2), s/veh	14.4	0.4	0.8	18.8	14.5	0.5	9.6	1.0	0.8	20.0	0.3	4.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.6	4.2	4.7	2.4	12.7	1.7	0.8	5.1	1.9	3.2	2.2	7.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	60.9	27.5	27.9	69.4	53.0	31.1	61.3	27.8	25.2	69.7	22.2	30.3
LnGrp LOS	E	C	C	E	D	C	E	C	C	E	C	C
Approach Vol, veh/h		1036			1026			645			715	
Approach Delay, s/veh		39.4			52.3			28.6			32.6	
Approach LOS		D			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.8	44.4	10.2	42.6	7.5	48.7	17.8	34.9
Change Period (Y+Rc), s	4.0	6.0	4.0	5.3	4.0	6.0	4.0	5.3
Max Green Setting (Gmax), s	15.0	30.0	15.0	30.0	15.0	30.0	15.0	30.0
Max Q Clear Time (g_c+I1), s	8.0	14.2	6.4	12.7	3.4	21.8	13.4	28.6
Green Ext Time (p_c), s	0.2	5.6	0.2	6.5	0.0	3.3	0.4	1.1

Intersection Summary	
HCM 7th Control Delay, s/veh	39.8
HCM 7th LOS	D

Intersection	
Int Delay, s/veh	0.5

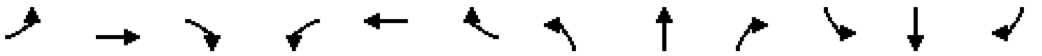
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	15	21	33	816	858	14
Future Vol, veh/h	15	21	33	816	858	14
Conflicting Peds, #/hr	0	2	2	0	0	2
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	175	0	145	-	-	50
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	3	3	2	2	2	2
Mvmt Flow	17	24	38	927	975	16

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1516	492	993	0	-	0
Stage 1	977	-	-	-	-	-
Stage 2	539	-	-	-	-	-
Critical Hdwy	6.86	6.96	4.14	-	-	-
Critical Hdwy Stg 1	5.86	-	-	-	-	-
Critical Hdwy Stg 2	5.86	-	-	-	-	-
Follow-up Hdwy	3.53	3.33	2.22	-	-	-
Pot Cap-1 Maneuver	*153	520	692	-	-	-
Stage 1	*323	-	-	-	-	-
Stage 2	*818	-	-	-	-	-
Platoon blocked, %	0			-	-	-
Mov Cap-1 Maneuver	*144	518	691	-	-	-
Mov Cap-2 Maneuver	*250	-	-	-	-	-
Stage 1	*305	-	-	-	-	-
Stage 2	*817	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	15.69	0.41	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	691	-	250	518	-	-
HCM Lane V/C Ratio	0.054	-	0.068	0.046	-	-
HCM Ctrl Dly (s/v)	10.5	-	20.5	12.3	-	-
HCM Lane LOS	B	-	C	B	-	-
HCM 95th %tile Q(veh)	0.2	-	0.2	0.1	-	-

Notes	
~: Volume exceeds capacity	$: Delay exceeds 300s
+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	320	946	6	93	720	172	24	358	155	152	378	355
Future Volume (veh/h)	320	946	6	93	720	172	24	358	155	152	378	355
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	340	1006	6	99	766	183	26	381	165	162	402	378
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	3	3	3	2	2	2	2	2	2	2	2	2
Cap, veh/h	413	1593	9	127	916	401	62	1194	528	194	1457	645
Arrive On Green	0.12	0.31	0.31	0.07	0.26	0.26	0.03	0.34	0.34	0.11	0.41	0.41
Sat Flow, veh/h	3428	5196	31	1781	3554	1556	1781	3554	1571	1781	3554	1573
Grp Volume(v), veh/h	340	654	358	99	766	183	26	381	165	162	402	378
Grp Sat Flow(s),veh/h/ln	1714	1689	1850	1781	1777	1556	1781	1777	1571	1781	1777	1573
Q Serve(g_s), s	10.6	18.1	18.2	6.0	22.2	10.8	1.6	8.7	8.5	9.7	8.2	20.3
Cycle Q Clear(g_c), s	10.6	18.1	18.2	6.0	22.2	10.8	1.6	8.7	8.5	9.7	8.2	20.3
Prop In Lane	1.00		0.02	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	413	1035	567	127	916	401	62	1194	528	194	1457	645
V/C Ratio(X)	0.82	0.63	0.63	0.78	0.84	0.46	0.42	0.32	0.31	0.83	0.28	0.59
Avail Cap(c_a), veh/h	472	1035	567	245	978	428	245	1194	528	245	1457	645
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.8	32.5	32.5	49.8	38.3	34.0	51.5	26.9	26.9	47.6	21.4	25.0
Incr Delay (d2), s/veh	12.4	1.8	3.2	19.2	7.0	1.7	9.2	0.7	1.5	22.7	0.5	3.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.1	7.4	8.3	3.3	10.2	4.2	0.8	3.7	3.3	5.4	3.4	7.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	59.2	34.3	35.7	69.0	45.3	35.8	60.7	27.6	28.4	70.3	21.9	28.8
LnGrp LOS	E	C	D	E	D	D	E	C	C	E	C	C
Approach Vol, veh/h		1352			1048			572			942	
Approach Delay, s/veh		40.9			45.9			29.4			33.0	
Approach LOS		D			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.9	42.6	11.8	38.7	7.8	50.7	17.1	33.4
Change Period (Y+Rc), s	4.0	6.0	4.0	5.3	4.0	6.0	4.0	5.3
Max Green Setting (Gmax), s	15.0	30.0	15.0	30.0	15.0	30.0	15.0	30.0
Max Q Clear Time (g_c+I1), s	11.7	10.7	8.0	20.2	3.6	22.3	12.6	24.2
Green Ext Time (p_c), s	0.3	5.2	0.2	6.4	0.0	3.9	0.6	3.8

Intersection Summary	
HCM 7th Control Delay, s/veh	38.7
HCM 7th LOS	D

Intersection	
Int Delay, s/veh	0.8

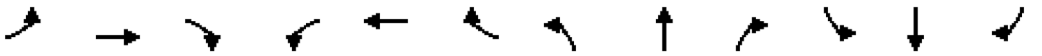
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	30	46	29	851	629	25
Future Vol, veh/h	30	46	29	851	629	25
Conflicting Peds, #/hr	0	0	4	0	0	4
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	175	0	145	-	-	50
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	10	10	3	3	5	5
Mvmt Flow	35	53	34	990	731	29

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1298	370	764	0	-	0
Stage 1	735	-	-	-	-	-
Stage 2	562	-	-	-	-	-
Critical Hdwy	7	7.1	4.16	-	-	-
Critical Hdwy Stg 1	6	-	-	-	-	-
Critical Hdwy Stg 2	6	-	-	-	-	-
Follow-up Hdwy	3.6	3.4	2.23	-	-	-
Pot Cap-1 Maneuver	*230	605	838	-	-	-
Stage 1	*415	-	-	-	-	-
Stage 2	*785	-	-	-	-	-
Platoon blocked, %	0			-	-	-
Mov Cap-1 Maneuver	*219	603	835	-	-	-
Mov Cap-2 Maneuver	*323	-	-	-	-	-
Stage 1	*396	-	-	-	-	-
Stage 2	*782	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	13.9	0.31	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	835	-	323	603	-	-
HCM Lane V/C Ratio	0.04	-	0.108	0.089	-	-
HCM Ctrl Dly (s/v)	9.5	-	17.5	11.6	-	-
HCM Lane LOS	A	-	C	B	-	-
HCM 95th %tile Q(veh)	0.1	-	0.4	0.3	-	-

Notes	
~: Volume exceeds capacity	$: Delay exceeds 300s
+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	336	607	4	65	792	78	21	473	95	91	248	334
Future Volume (veh/h)	336	607	4	65	792	78	21	473	95	91	248	334
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1826	1826	1826	1856	1856	1856	1826	1826	1826
Adj Flow Rate, veh/h	369	667	4	71	870	86	23	520	104	100	273	367
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	4	4	4	5	5	5	3	3	3	5	5	5
Cap, veh/h	435	1769	11	99	944	419	57	1233	546	128	1356	601
Arrive On Green	0.13	0.34	0.34	0.06	0.27	0.27	0.03	0.35	0.35	0.07	0.39	0.39
Sat Flow, veh/h	3401	5154	31	1739	3469	1542	1767	3526	1562	1739	3469	1538
Grp Volume(v), veh/h	369	433	238	71	870	86	23	520	104	100	273	367
Grp Sat Flow(s),veh/h/ln	1700	1675	1835	1739	1735	1542	1767	1763	1562	1739	1735	1538
Q Serve(g_s), s	11.6	10.6	10.6	4.4	26.6	4.7	1.4	12.3	5.1	6.2	5.7	20.8
Cycle Q Clear(g_c), s	11.6	10.6	10.6	4.4	26.6	4.7	1.4	12.3	5.1	6.2	5.7	20.8
Prop In Lane	1.00		0.02	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	435	1150	630	99	944	419	57	1233	546	128	1356	601
V/C Ratio(X)	0.85	0.38	0.38	0.72	0.92	0.21	0.40	0.42	0.19	0.78	0.20	0.61
Avail Cap(c_a), veh/h	468	1150	630	239	955	424	243	1233	546	239	1356	601
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.5	27.0	27.0	50.6	38.6	30.6	51.7	27.0	24.7	49.7	22.0	26.6
Incr Delay (d2), s/veh	14.7	0.4	0.8	18.8	14.5	0.5	9.6	1.1	0.8	19.7	0.3	4.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.7	4.2	4.7	2.4	12.7	1.8	0.8	5.2	1.9	3.3	2.3	8.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	61.2	27.4	27.8	69.4	53.0	31.1	61.3	28.1	25.5	69.3	22.3	31.1
LnGrp LOS	E	C	C	E	D	C	E	C	C	E	C	C
Approach Vol, veh/h		1040			1027			647			740	
Approach Delay, s/veh		39.5			52.3			28.9			33.0	
Approach LOS		D			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.0	44.1	10.2	42.7	7.5	48.6	17.9	34.9
Change Period (Y+Rc), s	4.0	6.0	4.0	5.3	4.0	6.0	4.0	5.3
Max Green Setting (Gmax), s	15.0	30.0	15.0	30.0	15.0	30.0	15.0	30.0
Max Q Clear Time (g_c+I1), s	8.2	14.3	6.4	12.6	3.4	22.8	13.6	28.6
Green Ext Time (p_c), s	0.2	5.6	0.2	6.5	0.0	3.1	0.4	1.1

Intersection Summary	
HCM 7th Control Delay, s/veh	39.9
HCM 7th LOS	D

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	43	0	11	43	0	33
Future Vol, veh/h	43	0	11	43	0	33
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	47	0	12	47	0	36

Major/Minor	Minor2		Major2	
Conflicting Flow All	71	47	0	0
Stage 1	71	-	-	-
Stage 2	0	-	-	-
Critical Hdwy	6.5	6.2	4.1	-
Critical Hdwy Stg 1	5.5	-	-	-
Critical Hdwy Stg 2	-	-	-	-
Follow-up Hdwy	4	3.3	2.2	-
Pot Cap-1 Maneuver	824	1028	-	-
Stage 1	840	-	-	-
Stage 2	-	-	-	-
Platoon blocked, %				-
Mov Cap-1 Maneuver	0	1028	-	-
Mov Cap-2 Maneuver	0	-	-	-
Stage 1	0	-	-	-
Stage 2	0	-	-	-

Approach	EB	WB
HCM Ctrl Dly, s/v		
HCM LOS	-	

Minor Lane/Major Mvmt	EBLn1	WBL	WBT
Capacity (veh/h)	-	-	-
HCM Lane V/C Ratio	-	-	-
HCM Ctrl Dly (s/v)	-	-	-
HCM Lane LOS	-	-	-
HCM 95th %tile Q(veh)	-	-	-

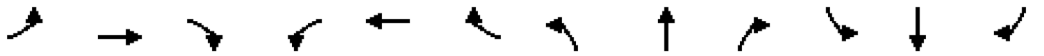
Intersection	
Int Delay, s/veh	0.8

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	21	36	58	816	858	25
Future Vol, veh/h	21	36	58	816	858	25
Conflicting Peds, #/hr	0	2	2	0	0	2
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	175	0	145	-	-	50
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	3	3	2	2	2	2
Mvmt Flow	24	41	66	927	975	28

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1572	492	1005	0	-	0
Stage 1	977	-	-	-	-	-
Stage 2	595	-	-	-	-	-
Critical Hdwy	6.86	6.96	4.14	-	-	-
Critical Hdwy Stg 1	5.86	-	-	-	-	-
Critical Hdwy Stg 2	5.86	-	-	-	-	-
Follow-up Hdwy	3.53	3.33	2.22	-	-	-
Pot Cap-1 Maneuver	137	520	685	-	-	-
Stage 1	323	-	-	-	-	-
Stage 2	816	-	-	-	-	-
Platoon blocked, %	0			-	-	-
Mov Cap-1 Maneuver	123	518	683	-	-	-
Mov Cap-2 Maneuver	236	-	-	-	-	-
Stage 1	291	-	-	-	-	-
Stage 2	814	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	16.01	0.72	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	683	-	236	518	-	-
HCM Lane V/C Ratio	0.096	-	0.101	0.079	-	-
HCM Ctrl Dly (s/v)	10.8	-	22	12.5	-	-
HCM Lane LOS	B	-	C	B	-	-
HCM 95th %tile Q(veh)	0.3	-	0.3	0.3	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	334	946	6	93	720	176	24	365	155	154	382	363
Future Volume (veh/h)	334	946	6	93	720	176	24	365	155	154	382	363
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	355	1006	6	99	766	187	26	388	165	164	406	386
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	3	3	3	2	2	2	2	2	2	2	2	2
Cap, veh/h	425	1612	10	127	916	401	62	1177	520	196	1444	639
Arrive On Green	0.12	0.31	0.31	0.07	0.26	0.26	0.03	0.33	0.33	0.11	0.41	0.41
Sat Flow, veh/h	3428	5196	31	1781	3554	1556	1781	3554	1571	1781	3554	1573
Grp Volume(v), veh/h	355	654	358	99	766	187	26	388	165	164	406	386
Grp Sat Flow(s),veh/h/ln	1714	1689	1850	1781	1777	1556	1781	1777	1571	1781	1777	1573
Q Serve(g_s), s	11.0	18.0	18.1	6.0	22.2	11.1	1.6	8.9	8.6	9.8	8.3	21.0
Cycle Q Clear(g_c), s	11.0	18.0	18.1	6.0	22.2	11.1	1.6	8.9	8.6	9.8	8.3	21.0
Prop In Lane	1.00		0.02	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	425	1048	574	127	916	401	62	1177	520	196	1444	639
V/C Ratio(X)	0.83	0.62	0.62	0.78	0.84	0.47	0.42	0.33	0.32	0.84	0.28	0.60
Avail Cap(c_a), veh/h	472	1048	574	245	978	428	245	1177	520	245	1444	639
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.7	32.2	32.2	49.8	38.3	34.1	51.5	27.4	27.2	47.5	21.7	25.5
Incr Delay (d2), s/veh	13.3	1.7	3.0	19.2	7.0	1.8	9.2	0.8	1.6	23.0	0.5	4.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.4	7.3	8.3	3.3	10.2	4.3	0.8	3.8	3.3	5.5	3.5	8.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	60.0	33.8	35.2	69.0	45.3	35.9	60.7	28.1	28.8	70.5	22.2	29.7
LnGrp LOS	E	C	D	E	D	D	E	C	C	E	C	C
Approach Vol, veh/h		1367			1052			579			956	
Approach Delay, s/veh		41.0			45.9			29.8			33.5	
Approach LOS		D			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.0	42.1	11.8	39.1	7.8	50.3	17.5	33.4
Change Period (Y+Rc), s	4.0	6.0	4.0	5.3	4.0	6.0	4.0	5.3
Max Green Setting (Gmax), s	15.0	30.0	15.0	30.0	15.0	30.0	15.0	30.0
Max Q Clear Time (g_c+I1), s	11.8	10.9	8.0	20.1	3.6	23.0	13.0	24.2
Green Ext Time (p_c), s	0.3	5.2	0.2	6.5	0.0	3.7	0.5	3.9

Intersection Summary	
HCM 7th Control Delay, s/veh	38.8
HCM 7th LOS	D

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	36	0	35	43	0	21
Future Vol, veh/h	36	0	35	43	0	21
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	39	0	38	47	0	23

Major/Minor	Minor2		Major2	
Conflicting Flow All	123	47	0	0
Stage 1	123	-	-	-
Stage 2	0	-	-	-
Critical Hdwy	6.5	6.2	4.1	-
Critical Hdwy Stg 1	5.5	-	-	-
Critical Hdwy Stg 2	-	-	-	-
Follow-up Hdwy	4	3.3	2.2	-
Pot Cap-1 Maneuver	771	1028	-	-
Stage 1	798	-	-	-
Stage 2	-	-	-	-
Platoon blocked, %				-
Mov Cap-1 Maneuver	0	1028	-	-
Mov Cap-2 Maneuver	0	-	-	-
Stage 1	0	-	-	-
Stage 2	0	-	-	-

Approach	EB	WB
HCM Ctrl Dly, s/v		
HCM LOS	-	

Minor Lane/Major Mvmt	EBLn1	WBL	WBT
Capacity (veh/h)	-	-	-
HCM Lane V/C Ratio	-	-	-
HCM Ctrl Dly (s/v)	-	-	-
HCM Lane LOS	-	-	-
HCM 95th %tile Q(veh)	-	-	-

Intersection	
Int Delay, s/veh	0.5

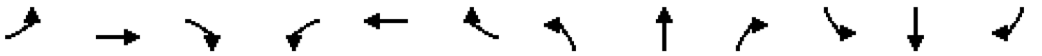
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	21	24	22	979	697	23
Future Vol, veh/h	21	24	22	979	697	23
Conflicting Peds, #/hr	0	0	4	0	0	4
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	175	0	145	-	-	50
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	10	10	3	3	5	5
Mvmt Flow	24	28	26	1138	810	27

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1435	409	841	0	-	0
Stage 1	814	-	-	-	-	-
Stage 2	620	-	-	-	-	-
Critical Hdwy	7	7.1	4.16	-	-	-
Critical Hdwy Stg 1	6	-	-	-	-	-
Critical Hdwy Stg 2	6	-	-	-	-	-
Follow-up Hdwy	3.6	3.4	2.23	-	-	-
Pot Cap-1 Maneuver	*194	570	784	-	-	-
Stage 1	*376	-	-	-	-	-
Stage 2	*749	-	-	-	-	-
Platoon blocked, %	0			-	-	-
Mov Cap-1 Maneuver	*186	567	781	-	-	-
Mov Cap-2 Maneuver	*292	-	-	-	-	-
Stage 1	*362	-	-	-	-	-
Stage 2	*747	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	14.83	0.21	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	781	-	292	567	-	-
HCM Lane V/C Ratio	0.033	-	0.084	0.049	-	-
HCM Ctrl Dly (s/v)	9.8	-	18.4	11.7	-	-
HCM Lane LOS	A	-	C	B	-	-
HCM 95th %tile Q(veh)	0.1	-	0.3	0.2	-	-

Notes	
~: Volume exceeds capacity	$: Delay exceeds 300s
+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	357	657	4	103	872	91	22	561	128	98	280	342
Future Volume (veh/h)	357	657	4	103	872	91	22	561	128	98	280	342
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1826	1826	1826	1856	1856	1856	1826	1826	1826
Adj Flow Rate, veh/h	392	722	4	113	958	100	24	616	141	108	308	376
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	4	4	4	5	5	5	3	3	3	5	5	5
Cap, veh/h	453	1684	9	142	955	424	59	1185	525	137	1323	586
Arrive On Green	0.13	0.33	0.33	0.08	0.28	0.28	0.03	0.34	0.34	0.08	0.38	0.38
Sat Flow, veh/h	3401	5157	29	1739	3469	1542	1767	3526	1561	1739	3469	1538
Grp Volume(v), veh/h	392	469	257	113	958	100	24	616	141	108	308	376
Grp Sat Flow(s),veh/h/ln	1700	1675	1835	1739	1735	1542	1767	1763	1561	1739	1735	1538
Q Serve(g_s), s	12.3	11.9	12.0	7.0	30.0	5.5	1.5	15.3	7.2	6.7	6.6	21.8
Cycle Q Clear(g_c), s	12.3	11.9	12.0	7.0	30.0	5.5	1.5	15.3	7.2	6.7	6.6	21.8
Prop In Lane	1.00		0.02	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	453	1094	599	142	955	424	59	1185	525	137	1323	586
V/C Ratio(X)	0.87	0.43	0.43	0.79	1.00	0.24	0.41	0.52	0.27	0.79	0.23	0.64
Avail Cap(c_a), veh/h	468	1094	599	239	955	424	243	1185	525	239	1323	586
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.3	28.7	28.7	49.1	39.5	30.6	51.6	29.1	26.4	49.3	22.9	27.6
Incr Delay (d2), s/veh	16.6	0.6	1.0	18.8	29.9	0.6	9.5	1.6	1.3	19.1	0.4	5.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.1	4.7	5.3	3.7	16.2	2.1	0.8	6.5	2.8	3.6	2.7	8.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	62.9	29.3	29.8	68.0	69.4	31.2	61.2	30.8	27.7	68.4	23.3	32.9
LnGrp LOS	E	C	C	E	F	C	E	C	C	E	C	C
Approach Vol, veh/h		1118			1171			781			792	
Approach Delay, s/veh		41.2			66.0			31.1			34.0	
Approach LOS		D			E			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.6	42.6	12.9	40.9	7.6	47.6	18.5	35.3
Change Period (Y+Rc), s	4.0	6.0	4.0	5.3	4.0	6.0	4.0	5.3
Max Green Setting (Gmax), s	15.0	30.0	15.0	30.0	15.0	30.0	15.0	30.0
Max Q Clear Time (g_c+I1), s	8.7	17.3	9.0	14.0	3.5	23.8	14.3	32.0
Green Ext Time (p_c), s	0.3	5.9	0.3	6.8	0.0	2.9	0.2	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	45.2
HCM 7th LOS	D

Intersection	
Int Delay, s/veh	0.5

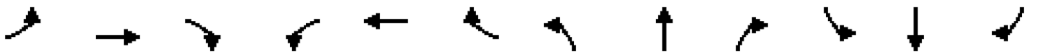
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	16	22	34	902	974	15
Future Vol, veh/h	16	22	34	902	974	15
Conflicting Peds, #/hr	0	2	2	0	0	2
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	175	0	145	-	-	50
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	3	3	2	2	2	2
Mvmt Flow	18	25	39	1025	1107	17

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1699	557	1126	0	-	0
Stage 1	1109	-	-	-	-	-
Stage 2	590	-	-	-	-	-
Critical Hdwy	6.86	6.96	4.14	-	-	-
Critical Hdwy Stg 1	5.86	-	-	-	-	-
Critical Hdwy Stg 2	5.86	-	-	-	-	-
Follow-up Hdwy	3.53	3.33	2.22	-	-	-
Pot Cap-1 Maneuver	*116	471	616	-	-	-
Stage 1	*275	-	-	-	-	-
Stage 2	*782	-	-	-	-	-
Platoon blocked, %	0			-	-	-
Mov Cap-1 Maneuver	*108	469	615	-	-	-
Mov Cap-2 Maneuver	*210	-	-	-	-	-
Stage 1	*257	-	-	-	-	-
Stage 2	*781	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	17.59	0.41	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	615	-	210	469	-	-
HCM Lane V/C Ratio	0.063	-	0.087	0.053	-	-
HCM Ctrl Dly (s/v)	11.2	-	23.7	13.1	-	-
HCM Lane LOS	B	-	C	B	-	-
HCM 95th %tile Q(veh)	0.2	-	0.3	0.2	-	-

Notes	
~: Volume exceeds capacity	$: Delay exceeds 300s
+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	342	1030	6	130	783	188	25	406	194	168	455	378
Future Volume (veh/h)	342	1030	6	130	783	188	25	406	194	168	455	378
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.98	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	364	1096	6	138	833	200	27	432	206	179	484	402
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	3	3	3	2	2	2	2	2	2	2	2	2
Cap, veh/h	432	1547	8	170	948	415	64	1108	489	211	1400	620
Arrive On Green	0.13	0.30	0.30	0.10	0.27	0.27	0.04	0.31	0.31	0.12	0.39	0.39
Sat Flow, veh/h	3428	5199	28	1781	3554	1556	1781	3554	1570	1781	3554	1573
Grp Volume(v), veh/h	364	712	390	138	833	200	27	432	206	179	484	402
Grp Sat Flow(s),veh/h/ln	1714	1689	1850	1781	1777	1556	1781	1777	1570	1781	1777	1573
Q Serve(g_s), s	11.3	20.5	20.5	8.3	24.5	11.8	1.6	10.4	11.3	10.7	10.4	22.7
Cycle Q Clear(g_c), s	11.3	20.5	20.5	8.3	24.5	11.8	1.6	10.4	11.3	10.7	10.4	22.7
Prop In Lane	1.00		0.02	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	432	1005	551	170	948	415	64	1108	489	211	1400	620
V/C Ratio(X)	0.84	0.71	0.71	0.81	0.88	0.48	0.42	0.39	0.42	0.85	0.35	0.65
Avail Cap(c_a), veh/h	472	1005	551	245	978	428	245	1108	489	245	1400	620
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.6	34.1	34.1	48.3	38.3	33.6	51.4	29.4	29.7	47.1	23.2	26.9
Incr Delay (d2), s/veh	14.0	2.9	5.2	19.7	9.8	1.8	9.2	1.0	2.6	25.0	0.7	5.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.5	8.5	9.7	4.5	11.6	4.5	0.9	4.5	4.5	6.1	4.3	9.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	60.5	37.0	39.3	68.0	48.0	35.5	60.7	30.4	32.4	72.1	23.8	32.1
LnGrp LOS	E	D	D	E	D	D	E	C	C	E	C	C
Approach Vol, veh/h		1466			1171			665			1065	
Approach Delay, s/veh		43.5			48.3			32.3			35.1	
Approach LOS		D			D			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.9	40.0	14.4	37.7	7.9	49.0	17.8	34.4
Change Period (Y+Rc), s	4.0	6.0	4.0	5.3	4.0	6.0	4.0	5.3
Max Green Setting (Gmax), s	15.0	30.0	15.0	30.0	15.0	30.0	15.0	30.0
Max Q Clear Time (g_c+I1), s	12.7	13.3	10.3	22.5	3.6	24.7	13.3	26.5
Green Ext Time (p_c), s	0.2	5.7	0.3	5.5	0.0	3.3	0.4	2.6

Intersection Summary	
HCM 7th Control Delay, s/veh	41.0
HCM 7th LOS	D

Intersection	
Int Delay, s/veh	0.8

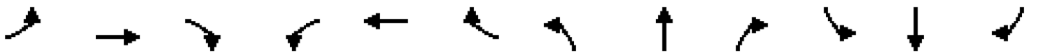
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	31	47	30	979	697	26
Future Vol, veh/h	31	47	30	979	697	26
Conflicting Peds, #/hr	0	0	4	0	0	4
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	175	0	145	-	-	50
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	10	10	3	3	5	5
Mvmt Flow	36	55	35	1138	810	30

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1453	409	845	0	-	0
Stage 1	814	-	-	-	-	-
Stage 2	639	-	-	-	-	-
Critical Hdwy	7	7.1	4.16	-	-	-
Critical Hdwy Stg 1	6	-	-	-	-	-
Critical Hdwy Stg 2	6	-	-	-	-	-
Follow-up Hdwy	3.6	3.4	2.23	-	-	-
Pot Cap-1 Maneuver	*187	570	781	-	-	-
Stage 1	*376	-	-	-	-	-
Stage 2	*749	-	-	-	-	-
Platoon blocked, %	0			-	-	-
Mov Cap-1 Maneuver	*177	567	778	-	-	-
Mov Cap-2 Maneuver	*287	-	-	-	-	-
Stage 1	*358	-	-	-	-	-
Stage 2	*747	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	14.93	0.29	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	778	-	287	567	-	-
HCM Lane V/C Ratio	0.045	-	0.126	0.096	-	-
HCM Ctrl Dly (s/v)	9.8	-	19.3	12	-	-
HCM Lane LOS	A	-	C	B	-	-
HCM 95th %tile Q(veh)	0.1	-	0.4	0.3	-	-

Notes	
~: Volume exceeds capacity	$: Delay exceeds 300s
+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	361	657	4	103	872	92	22	563	128	101	287	355
Future Volume (veh/h)	361	657	4	103	872	92	22	563	128	101	287	355
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1826	1826	1826	1856	1856	1856	1826	1826	1826
Adj Flow Rate, veh/h	397	722	4	113	958	101	24	619	141	111	315	390
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	4	4	4	5	5	5	3	3	3	5	5	5
Cap, veh/h	456	1690	9	142	955	424	59	1174	520	140	1319	585
Arrive On Green	0.13	0.33	0.33	0.08	0.28	0.28	0.03	0.33	0.33	0.08	0.38	0.38
Sat Flow, veh/h	3401	5157	29	1739	3469	1542	1767	3526	1561	1739	3469	1538
Grp Volume(v), veh/h	397	469	257	113	958	101	24	619	141	111	315	390
Grp Sat Flow(s),veh/h/ln	1700	1675	1835	1739	1735	1542	1767	1763	1561	1739	1735	1538
Q Serve(g_s), s	12.5	11.9	11.9	7.0	30.0	5.5	1.5	15.5	7.2	6.8	6.7	23.0
Cycle Q Clear(g_c), s	12.5	11.9	11.9	7.0	30.0	5.5	1.5	15.5	7.2	6.8	6.7	23.0
Prop In Lane	1.00		0.02	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	456	1098	601	142	955	424	59	1174	520	140	1319	585
V/C Ratio(X)	0.87	0.43	0.43	0.79	1.00	0.24	0.41	0.53	0.27	0.79	0.24	0.67
Avail Cap(c_a), veh/h	468	1098	601	239	955	424	243	1174	520	239	1319	585
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.3	28.6	28.6	49.1	39.5	30.6	51.6	29.4	26.7	49.2	23.0	28.0
Incr Delay (d2), s/veh	17.1	0.6	1.0	18.8	29.9	0.6	9.5	1.7	1.3	18.9	0.4	5.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.2	4.7	5.3	3.7	16.2	2.1	0.8	6.6	0.2	3.6	2.7	9.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	63.3	29.2	29.7	68.0	69.4	31.2	61.2	31.1	27.9	68.1	23.4	34.0
LnGrp LOS	E	C	C	E	F	C	E	C	C	E	C	C
Approach Vol, veh/h		1123			1172			784			816	
Approach Delay, s/veh		41.4			66.0			31.5			34.6	
Approach LOS		D			E			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.8	42.3	12.9	41.0	7.6	47.5	18.6	35.3
Change Period (Y+Rc), s	4.0	6.0	4.0	5.3	4.0	6.0	4.0	5.3
Max Green Setting (Gmax), s	15.0	30.0	15.0	30.0	15.0	30.0	15.0	30.0
Max Q Clear Time (g_c+I1), s	8.8	17.5	9.0	13.9	3.5	25.0	14.5	32.0
Green Ext Time (p_c), s	0.3	5.9	0.3	6.8	0.0	2.5	0.2	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	45.4
HCM 7th LOS	D

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	45	0	11	45	0	33
Future Vol, veh/h	45	0	11	45	0	33
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	49	0	12	49	0	36

Major/Minor	Minor2		Major2	
Conflicting Flow All	73	49	0	0
Stage 1	73	-	-	-
Stage 2	0	-	-	-
Critical Hdwy	6.5	6.2	4.1	-
Critical Hdwy Stg 1	5.5	-	-	-
Critical Hdwy Stg 2	-	-	-	-
Follow-up Hdwy	4	3.3	2.2	-
Pot Cap-1 Maneuver	821	1025	-	-
Stage 1	838	-	-	-
Stage 2	-	-	-	-
Platoon blocked, %				-
Mov Cap-1 Maneuver	0	1025	-	-
Mov Cap-2 Maneuver	0	-	-	-
Stage 1	0	-	-	-
Stage 2	0	-	-	-

Approach	EB	WB
HCM Ctrl Dly, s/v		
HCM LOS	-	

Minor Lane/Major Mvmt	EBLn1	WBL	WBT
Capacity (veh/h)	-	-	-
HCM Lane V/C Ratio	-	-	-
HCM Ctrl Dly (s/v)	-	-	-
HCM Lane LOS	-	-	-
HCM 95th %tile Q(veh)	-	-	-

Intersection	
Int Delay, s/veh	0.9

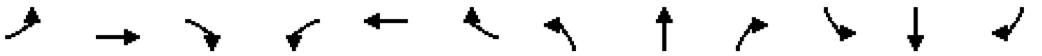
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	22	37	59	902	974	26
Future Vol, veh/h	22	37	59	902	974	26
Conflicting Peds, #/hr	0	2	2	0	0	2
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	175	0	145	-	-	50
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	3	3	2	2	2	2
Mvmt Flow	25	42	67	1025	1107	30

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1755	557	1138	0	-	0
Stage 1	1109	-	-	-	-	-
Stage 2	647	-	-	-	-	-
Critical Hdwy	6.86	6.96	4.14	-	-	-
Critical Hdwy Stg 1	5.86	-	-	-	-	-
Critical Hdwy Stg 2	5.86	-	-	-	-	-
Follow-up Hdwy	3.53	3.33	2.22	-	-	-
Pot Cap-1 Maneuver	*103	471	609	-	-	-
Stage 1	*275	-	-	-	-	-
Stage 2	*782	-	-	-	-	-
Platoon blocked, %	0			-	-	-
Mov Cap-1 Maneuver	*92	469	608	-	-	-
Mov Cap-2 Maneuver	*198	-	-	-	-	-
Stage 1	*244	-	-	-	-	-
Stage 2	*781	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	18.05	0.72	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	608	-	198	469	-	-
HCM Lane V/C Ratio	0.11	-	0.126	0.09	-	-
HCM Ctrl Dly (s/v)	11.6	-	25.8	13.4	-	-
HCM Lane LOS	B	-	D	B	-	-
HCM 95th %tile Q(veh)	0.4	-	0.4	0.3	-	-

Notes	
~: Volume exceeds capacity	$: Delay exceeds 300s
+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	356	1030	6	130	783	192	25	413	194	170	459	386
Future Volume (veh/h)	356	1030	6	130	783	192	25	413	194	170	459	386
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	379	1096	6	138	833	204	27	439	206	181	488	411
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	3	3	3	2	2	2	2	2	2	2	2	2
Cap, veh/h	444	1565	9	170	948	415	64	1091	482	213	1388	614
Arrive On Green	0.13	0.30	0.30	0.10	0.27	0.27	0.04	0.31	0.31	0.12	0.39	0.39
Sat Flow, veh/h	3428	5199	28	1781	3554	1556	1781	3554	1570	1781	3554	1573
Grp Volume(v), veh/h	379	712	390	138	833	204	27	439	206	181	488	411
Grp Sat Flow(s),veh/h/ln	1714	1689	1850	1781	1777	1556	1781	1777	1570	1781	1777	1573
Q Serve(g_s), s	11.8	20.3	20.4	8.3	24.5	12.1	1.6	10.6	11.4	10.9	10.6	23.5
Cycle Q Clear(g_c), s	11.8	20.3	20.4	8.3	24.5	12.1	1.6	10.6	11.4	10.9	10.6	23.5
Prop In Lane	1.00		0.02	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	444	1017	557	170	948	415	64	1091	482	213	1388	614
V/C Ratio(X)	0.85	0.70	0.70	0.81	0.88	0.49	0.42	0.40	0.43	0.85	0.35	0.67
Avail Cap(c_a), veh/h	472	1017	557	245	978	428	245	1091	482	245	1388	614
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.4	33.7	33.7	48.3	38.3	33.7	51.4	29.9	30.1	47.0	23.5	27.4
Incr Delay (d2), s/veh	15.1	2.7	4.9	19.7	9.8	1.9	9.2	1.1	2.8	25.3	0.7	5.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.8	8.4	9.6	4.5	11.5	4.6	0.9	4.6	4.5	6.2	4.4	9.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	61.5	36.5	38.7	68.0	48.0	35.6	60.7	31.0	32.9	72.4	24.2	33.1
LnGrp LOS	E	D	D	E	D	D	E	C	C	E	C	C
Approach Vol, veh/h		1481			1175			672			1080	
Approach Delay, s/veh		43.5			48.2			32.7			35.6	
Approach LOS		D			D			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	17.0	39.5	14.4	38.1	7.9	48.6	18.1	34.4
Change Period (Y+Rc), s	4.0	6.0	4.0	5.3	4.0	6.0	4.0	5.3
Max Green Setting (Gmax), s	15.0	30.0	15.0	30.0	15.0	30.0	15.0	30.0
Max Q Clear Time (g_c+I1), s	12.9	13.4	10.3	22.4	3.6	25.5	13.8	26.5
Green Ext Time (p_c), s	0.2	5.7	0.3	5.5	0.0	2.8	0.3	2.6

Intersection Summary	
HCM 7th Control Delay, s/veh	41.2
HCM 7th LOS	D

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	37	0	35	45	0	21
Future Vol, veh/h	37	0	35	45	0	21
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	40	0	38	49	0	23

Major/Minor	Minor2		Major2	
Conflicting Flow All	125	49	0	0
Stage 1	125	-	-	-
Stage 2	0	-	-	-
Critical Hdwy	6.5	6.2	4.1	-
Critical Hdwy Stg 1	5.5	-	-	-
Critical Hdwy Stg 2	-	-	-	-
Follow-up Hdwy	4	3.3	2.2	-
Pot Cap-1 Maneuver	769	1025	-	-
Stage 1	796	-	-	-
Stage 2	-	-	-	-
Platoon blocked, %				-
Mov Cap-1 Maneuver	0	1025	-	-
Mov Cap-2 Maneuver	0	-	-	-
Stage 1	0	-	-	-
Stage 2	0	-	-	-

Approach	EB	WB
HCM Ctrl Dly, s/v		
HCM LOS	-	

Minor Lane/Major Mvmt	EBLn1	WBL	WBT
Capacity (veh/h)	-	-	-
HCM Lane V/C Ratio	-	-	-
HCM Ctrl Dly (s/v)	-	-	-
HCM Lane LOS	-	-	-
HCM 95th %tile Q(veh)	-	-	-

Intersection	
Int Delay, s/veh	0.7

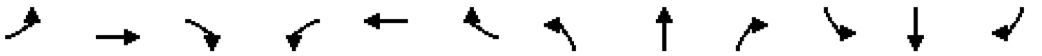
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	30	35	34	1028	732	31
Future Vol, veh/h	30	35	34	1028	732	31
Conflicting Peds, #/hr	0	0	4	0	0	4
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	175	0	145	-	-	50
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	10	10	3	3	5	5
Mvmt Flow	30	35	34	1028	732	31

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1318	370	767	0	-	0
Stage 1	736	-	-	-	-	-
Stage 2	582	-	-	-	-	-
Critical Hdwy	7	7.1	4.16	-	-	-
Critical Hdwy Stg 1	6	-	-	-	-	-
Critical Hdwy Stg 2	6	-	-	-	-	-
Follow-up Hdwy	3.6	3.4	2.23	-	-	-
Pot Cap-1 Maneuver	*260	605	836	-	-	-
Stage 1	*414	-	-	-	-	-
Stage 2	*732	-	-	-	-	-
Platoon blocked, %	0			-	-	-
Mov Cap-1 Maneuver	*248	602	833	-	-	-
Mov Cap-2 Maneuver	*330	-	-	-	-	-
Stage 1	*396	-	-	-	-	-
Stage 2	*729	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	13.96	0.3	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	833	-	330	602	-	-
HCM Lane V/C Ratio	0.041	-	0.091	0.058	-	-
HCM Ctrl Dly (s/v)	9.5	-	17	11.3	-	-
HCM Lane LOS	A	-	C	B	-	-
HCM 95th %tile Q(veh)	0.1	-	0.3	0.2	-	-

Notes	
~: Volume exceeds capacity	$: Delay exceeds 300s
+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	380	987	6	108	908	97	24	594	133	104	297	363
Future Volume (veh/h)	380	987	6	108	908	97	24	594	133	104	297	363
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1826	1826	1826	1856	1856	1856	1826	1826	1826
Adj Flow Rate, veh/h	380	987	6	108	908	97	24	594	133	104	297	363
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	4	4	4	5	5	5	3	3	3	5	5	5
Cap, veh/h	444	1686	10	137	955	424	59	1203	533	132	1332	591
Arrive On Green	0.13	0.33	0.33	0.08	0.28	0.28	0.03	0.34	0.34	0.08	0.38	0.38
Sat Flow, veh/h	3401	5154	31	1739	3469	1542	1767	3526	1561	1739	3469	1538
Grp Volume(v), veh/h	380	642	351	108	908	97	24	594	133	104	297	363
Grp Sat Flow(s),veh/h/ln	1700	1675	1835	1739	1735	1542	1767	1763	1561	1739	1735	1538
Q Serve(g_s), s	11.9	17.4	17.4	6.7	28.0	5.3	1.5	14.5	6.7	6.4	6.3	20.7
Cycle Q Clear(g_c), s	11.9	17.4	17.4	6.7	28.0	5.3	1.5	14.5	6.7	6.4	6.3	20.7
Prop In Lane	1.00		0.02	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	444	1096	600	137	955	424	59	1203	533	132	1332	591
V/C Ratio(X)	0.86	0.59	0.59	0.79	0.95	0.23	0.41	0.49	0.25	0.79	0.22	0.61
Avail Cap(c_a), veh/h	468	1096	600	239	955	424	243	1203	533	239	1332	591
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.4	30.5	30.5	49.3	38.8	30.5	51.6	28.4	25.9	49.5	22.6	27.1
Incr Delay (d2), s/veh	15.5	1.3	2.3	19.1	18.7	0.6	9.5	1.5	1.1	19.4	0.4	4.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.9	7.0	7.8	3.6	13.9	2.0	0.8	6.2	2.6	3.4	2.6	8.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	61.9	31.8	32.8	68.4	57.5	31.1	61.2	29.9	27.0	68.9	23.0	31.8
LnGrp LOS	E	C	C	E	E	C	E	C	C	E	C	C
Approach Vol, veh/h		1373			1113			751			764	
Approach Delay, s/veh		40.4			56.3			30.4			33.4	
Approach LOS		D			E			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.3	43.2	12.6	41.0	7.6	47.9	18.2	35.3
Change Period (Y+Rc), s	4.0	6.0	4.0	5.3	4.0	6.0	4.0	5.3
Max Green Setting (Gmax), s	15.0	30.0	15.0	30.0	15.0	30.0	15.0	30.0
Max Q Clear Time (g_c+I1), s	8.4	16.5	8.7	19.4	3.5	22.7	13.9	30.0
Green Ext Time (p_c), s	0.2	5.9	0.3	6.7	0.0	3.2	0.3	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	41.6
HCM 7th LOS	D

Intersection	
Int Delay, s/veh	0.7

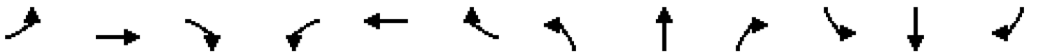
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	22	34	50	929	1041	20
Future Vol, veh/h	22	34	50	929	1041	20
Conflicting Peds, #/hr	0	2	2	0	0	2
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	175	0	145	-	-	50
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	3	3	2	2	2	2
Mvmt Flow	22	34	50	929	1041	20

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1608	525	1063	0	-	0
Stage 1	1043	-	-	-	-	-
Stage 2	565	-	-	-	-	-
Critical Hdwy	6.86	6.96	4.14	-	-	-
Critical Hdwy Stg 1	5.86	-	-	-	-	-
Critical Hdwy Stg 2	5.86	-	-	-	-	-
Follow-up Hdwy	3.53	3.33	2.22	-	-	-
Pot Cap-1 Maneuver	*138	495	651	-	-	-
Stage 1	*298	-	-	-	-	-
Stage 2	*782	-	-	-	-	-
Platoon blocked, %	0			-	-	-
Mov Cap-1 Maneuver	*127	493	650	-	-	-
Mov Cap-2 Maneuver	*226	-	-	-	-	-
Stage 1	*275	-	-	-	-	-
Stage 2	*781	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	16.69	0.56	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	650	-	226	493	-	-
HCM Lane V/C Ratio	0.077	-	0.097	0.069	-	-
HCM Ctrl Dly (s/v)	11	-	22.6	12.8	-	-
HCM Lane LOS	B	-	C	B	-	-
HCM 95th %tile Q(veh)	0.2	-	0.3	0.2	-	-

Notes	
~: Volume exceeds capacity	$: Delay exceeds 300s
+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	359	1082	6	137	956	195	30	426	204	176	478	429
Future Volume (veh/h)	359	1082	6	137	956	195	30	426	204	176	478	429
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	359	1082	6	137	956	195	30	426	204	176	478	429
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	3	3	3	2	2	2	2	2	2	2	2	2
Cap, veh/h	428	1588	9	169	978	428	68	1088	480	208	1366	605
Arrive On Green	0.12	0.31	0.31	0.09	0.28	0.28	0.04	0.31	0.31	0.12	0.38	0.38
Sat Flow, veh/h	3428	5198	29	1781	3554	1556	1781	3554	1570	1781	3554	1573
Grp Volume(v), veh/h	359	703	385	137	956	195	30	426	204	176	478	429
Grp Sat Flow(s),veh/h/ln	1714	1689	1850	1781	1777	1556	1781	1777	1570	1781	1777	1573
Q Serve(g_s), s	11.2	19.9	19.9	8.2	29.1	11.3	1.8	10.3	11.3	10.6	10.4	25.2
Cycle Q Clear(g_c), s	11.2	19.9	19.9	8.2	29.1	11.3	1.8	10.3	11.3	10.6	10.4	25.2
Prop In Lane	1.00		0.02	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	428	1031	565	169	978	428	68	1088	480	208	1366	605
V/C Ratio(X)	0.84	0.68	0.68	0.81	0.98	0.46	0.44	0.39	0.42	0.85	0.35	0.71
Avail Cap(c_a), veh/h	472	1031	565	245	978	428	245	1088	480	245	1366	605
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.6	33.2	33.2	48.4	39.2	32.7	51.3	29.8	30.2	47.2	23.9	28.4
Incr Delay (d2), s/veh	13.6	2.4	4.4	19.6	23.5	1.6	9.2	1.1	2.7	24.6	0.7	6.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.5	8.2	9.3	4.5	15.4	4.3	1.0	4.4	4.5	6.0	4.4	10.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	60.2	35.6	37.6	67.9	62.6	34.3	60.5	30.9	32.9	71.8	24.6	35.3
LnGrp LOS	E	D	D	E	E	C	E	C	C	E	C	D
Approach Vol, veh/h		1447			1288			660			1083	
Approach Delay, s/veh		42.2			58.9			32.9			36.5	
Approach LOS		D			E			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.7	39.4	14.3	38.6	8.2	47.9	17.6	35.3
Change Period (Y+Rc), s	4.0	6.0	4.0	5.3	4.0	6.0	4.0	5.3
Max Green Setting (Gmax), s	15.0	30.0	15.0	30.0	15.0	30.0	15.0	30.0
Max Q Clear Time (g_c+I1), s	12.6	13.3	10.2	21.9	3.8	27.2	13.2	31.1
Green Ext Time (p_c), s	0.2	5.6	0.3	5.7	0.1	1.9	0.5	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	44.3
HCM 7th LOS	D

Intersection	
Int Delay, s/veh	0.9

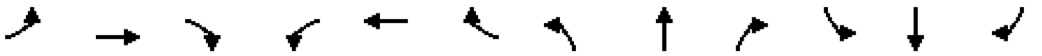
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	40	58	42	1028	732	34
Future Vol, veh/h	40	58	42	1028	732	34
Conflicting Peds, #/hr	0	0	4	0	0	4
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	175	0	145	-	-	50
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	10	10	3	3	5	5
Mvmt Flow	40	58	42	1028	732	34

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1334	370	770	0	-	0
Stage 1	736	-	-	-	-	-
Stage 2	598	-	-	-	-	-
Critical Hdwy	7	7.1	4.16	-	-	-
Critical Hdwy Stg 1	6	-	-	-	-	-
Critical Hdwy Stg 2	6	-	-	-	-	-
Follow-up Hdwy	3.6	3.4	2.23	-	-	-
Pot Cap-1 Maneuver	*252	605	834	-	-	-
Stage 1	*414	-	-	-	-	-
Stage 2	*732	-	-	-	-	-
Platoon blocked, %	0			-	-	-
Mov Cap-1 Maneuver	*237	602	831	-	-	-
Mov Cap-2 Maneuver	*324	-	-	-	-	-
Stage 1	*392	-	-	-	-	-
Stage 2	*729	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	14.08	0.38	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	831	-	324	602	-	-
HCM Lane V/C Ratio	0.051	-	0.123	0.096	-	-
HCM Ctrl Dly (s/v)	9.6	-	17.7	11.6	-	-
HCM Lane LOS	A	-	C	B	-	-
HCM 95th %tile Q(veh)	0.2	-	0.4	0.3	-	-

Notes	
~: Volume exceeds capacity	$: Delay exceeds 300s
+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	384	987	6	108	908	98	24	596	133	107	304	376
Future Volume (veh/h)	384	987	6	108	908	98	24	596	133	107	304	376
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1826	1826	1826	1856	1856	1856	1826	1826	1826
Adj Flow Rate, veh/h	384	987	6	108	908	98	24	596	133	107	304	376
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	4	4	4	5	5	5	3	3	3	5	5	5
Cap, veh/h	447	1691	10	137	955	424	59	1193	528	136	1329	589
Arrive On Green	0.13	0.33	0.33	0.08	0.28	0.28	0.03	0.34	0.34	0.08	0.38	0.38
Sat Flow, veh/h	3401	5154	31	1739	3469	1542	1767	3526	1561	1739	3469	1538
Grp Volume(v), veh/h	384	642	351	108	908	98	24	596	133	107	304	376
Grp Sat Flow(s),veh/h/ln	1700	1675	1835	1739	1735	1542	1767	1763	1561	1739	1735	1538
Q Serve(g_s), s	12.1	17.3	17.4	6.7	28.0	5.4	1.5	14.7	6.7	6.6	6.5	21.8
Cycle Q Clear(g_c), s	12.1	17.3	17.4	6.7	28.0	5.4	1.5	14.7	6.7	6.6	6.5	21.8
Prop In Lane	1.00		0.02	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	447	1099	602	137	955	424	59	1193	528	136	1329	589
V/C Ratio(X)	0.86	0.58	0.58	0.79	0.95	0.23	0.41	0.50	0.25	0.79	0.23	0.64
Avail Cap(c_a), veh/h	468	1099	602	239	955	424	243	1193	528	239	1329	589
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.4	30.4	30.4	49.3	38.8	30.6	51.6	28.7	26.1	49.4	22.7	27.4
Incr Delay (d2), s/veh	15.9	1.3	2.3	19.1	18.7	0.6	9.5	1.5	1.1	19.2	0.4	5.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.0	6.9	7.8	3.6	13.9	2.0	0.8	6.2	2.6	3.5	2.6	8.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	62.2	31.7	32.7	68.4	57.5	31.2	61.2	30.2	27.2	68.5	23.1	32.7
LnGrp LOS	E	C	C	E	E	C	E	C	C	E	C	C
Approach Vol, veh/h		1377			1114			753			787	
Approach Delay, s/veh		40.5			56.2			30.7			33.9	
Approach LOS		D			E			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.5	42.9	12.6	41.1	7.6	47.8	18.3	35.3
Change Period (Y+Rc), s	4.0	6.0	4.0	5.3	4.0	6.0	4.0	5.3
Max Green Setting (Gmax), s	15.0	30.0	15.0	30.0	15.0	30.0	15.0	30.0
Max Q Clear Time (g_c+I1), s	8.6	16.7	8.7	19.4	3.5	23.8	14.1	30.0
Green Ext Time (p_c), s	0.3	5.9	0.3	6.7	0.0	2.9	0.3	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	41.7
HCM 7th LOS	D

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	118	0	11	123	0	33
Future Vol, veh/h	118	0	11	123	0	33
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	118	0	11	123	0	33

Major/Minor	Minor2		Major2	
Conflicting Flow All	145	123	0	0
Stage 1	145	-	-	-
Stage 2	0	-	-	-
Critical Hdwy	6.5	6.2	4.1	-
Critical Hdwy Stg 1	5.5	-	-	-
Critical Hdwy Stg 2	-	-	-	-
Follow-up Hdwy	4	3.3	2.2	-
Pot Cap-1 Maneuver	750	933	-	-
Stage 1	781	-	-	-
Stage 2	-	-	-	-
Platoon blocked, %				-
Mov Cap-1 Maneuver	0	933	-	-
Mov Cap-2 Maneuver	0	-	-	-
Stage 1	0	-	-	-
Stage 2	0	-	-	-

Approach	EB	WB
HCM Ctrl Dly, s/v		
HCM LOS	-	

Minor Lane/Major Mvmt	EBLn1	WBL	WBT
Capacity (veh/h)	-	-	-
HCM Lane V/C Ratio	-	-	-
HCM Ctrl Dly (s/v)	-	-	-
HCM Lane LOS	-	-	-
HCM 95th %tile Q(veh)	-	-	-

Intersection	
Int Delay, s/veh	1

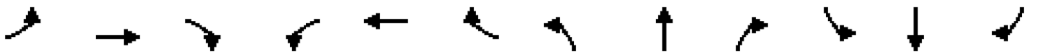
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	28	49	75	929	1041	31
Future Vol, veh/h	28	49	75	929	1041	31
Conflicting Peds, #/hr	0	2	2	0	0	2
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	175	0	145	-	-	50
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	3	3	2	2	2	2
Mvmt Flow	28	49	75	929	1041	31

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1658	525	1074	0	-	0
Stage 1	1043	-	-	-	-	-
Stage 2	615	-	-	-	-	-
Critical Hdwy	6.86	6.96	4.14	-	-	-
Critical Hdwy Stg 1	5.86	-	-	-	-	-
Critical Hdwy Stg 2	5.86	-	-	-	-	-
Follow-up Hdwy	3.53	3.33	2.22	-	-	-
Pot Cap-1 Maneuver	*125	495	645	-	-	-
Stage 1	*298	-	-	-	-	-
Stage 2	*782	-	-	-	-	-
Platoon blocked, %	0			-	-	-
Mov Cap-1 Maneuver	*110	493	644	-	-	-
Mov Cap-2 Maneuver	*214	-	-	-	-	-
Stage 1	*263	-	-	-	-	-
Stage 2	*781	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	17.18	0.85	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	644	-	214	493	-	-
HCM Lane V/C Ratio	0.117	-	0.131	0.099	-	-
HCM Ctrl Dly (s/v)	11.3	-	24.3	13.1	-	-
HCM Lane LOS	B	-	C	B	-	-
HCM 95th %tile Q(veh)	0.4	-	0.4	0.3	-	-

Notes	
~: Volume exceeds capacity	$: Delay exceeds 300s
+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	373	1082	6	137	956	199	30	433	204	178	482	437
Future Volume (veh/h)	373	1082	6	137	956	199	30	433	204	178	482	437
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	373	1082	6	137	956	199	30	433	204	178	482	437
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	3	3	3	2	2	2	2	2	2	2	2	2
Cap, veh/h	440	1604	9	169	978	428	68	1072	474	210	1354	599
Arrive On Green	0.13	0.31	0.31	0.09	0.28	0.28	0.04	0.30	0.30	0.12	0.38	0.38
Sat Flow, veh/h	3428	5198	29	1781	3554	1556	1781	3554	1569	1781	3554	1573
Grp Volume(v), veh/h	373	703	385	137	956	199	30	433	204	178	482	437
Grp Sat Flow(s),veh/h/ln	1714	1689	1850	1781	1777	1556	1781	1777	1569	1781	1777	1573
Q Serve(g_s), s	11.6	19.8	19.8	8.2	29.1	11.6	1.8	10.6	11.4	10.7	10.6	26.0
Cycle Q Clear(g_c), s	11.6	19.8	19.8	8.2	29.1	11.6	1.8	10.6	11.4	10.7	10.6	26.0
Prop In Lane	1.00		0.02	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	440	1042	571	169	978	428	68	1072	474	210	1354	599
V/C Ratio(X)	0.85	0.67	0.67	0.81	0.98	0.46	0.44	0.40	0.43	0.85	0.36	0.73
Avail Cap(c_a), veh/h	472	1042	571	245	978	428	245	1072	474	245	1354	599
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.5	32.9	32.9	48.4	39.2	32.8	51.3	30.3	30.5	47.1	24.1	28.9
Incr Delay (d2), s/veh	14.6	2.3	4.1	19.6	23.5	1.7	9.2	1.1	2.8	24.9	0.7	7.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.7	8.1	9.2	4.5	15.4	4.4	1.0	4.6	4.5	6.1	4.4	10.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	61.1	35.2	37.0	67.9	62.6	34.5	60.5	31.4	33.4	72.0	24.9	36.5
LnGrp LOS	E	D	D	E	E	C	E	C	C	E	C	D
Approach Vol, veh/h		1461			1292			667			1097	
Approach Delay, s/veh		42.3			58.9			33.3			37.2	
Approach LOS		D			E			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.8	38.9	14.3	38.9	8.2	47.5	18.0	35.3
Change Period (Y+Rc), s	4.0	6.0	4.0	5.3	4.0	6.0	4.0	5.3
Max Green Setting (Gmax), s	15.0	30.0	15.0	30.0	15.0	30.0	15.0	30.0
Max Q Clear Time (g_c+I1), s	12.7	13.4	10.2	21.8	3.8	28.0	13.6	31.1
Green Ext Time (p_c), s	0.2	5.6	0.3	5.8	0.1	1.4	0.4	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	44.5
HCM 7th LOS	D

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	155	0	35	149	0	21
Future Vol, veh/h	155	0	35	149	0	21
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	155	0	35	149	0	21

Major/Minor	Minor2		Major2	
Conflicting Flow All	219	149	0	0
Stage 1	219	-	-	-
Stage 2	0	-	-	-
Critical Hdwy	6.5	6.2	4.1	-
Critical Hdwy Stg 1	5.5	-	-	-
Critical Hdwy Stg 2	-	-	-	-
Follow-up Hdwy	4	3.3	2.2	-
Pot Cap-1 Maneuver	683	903	-	-
Stage 1	726	-	-	-
Stage 2	-	-	-	-
Platoon blocked, %				-
Mov Cap-1 Maneuver	0	903	-	-
Mov Cap-2 Maneuver	0	-	-	-
Stage 1	0	-	-	-
Stage 2	0	-	-	-

Approach	EB	WB
HCM Ctrl Dly, s/v		
HCM LOS	-	

Minor Lane/Major Mvmt	EBLn1	WBL	WBT
Capacity (veh/h)	-	-	-
HCM Lane V/C Ratio	-	-	-
HCM Ctrl Dly (s/v)	-	-	-
HCM Lane LOS	-	-	-
HCM 95th %tile Q(veh)	-	-	-

APPENDIX E

INTERSECTION QUEUING REPORTS

Intersection: 1: Ramona Avenue & Corporate Center Avenue

Movement	EB	EB	NB
Directions Served	L	R	L
Maximum Queue (ft)	87	67	50
Average Queue (ft)	11	13	9
95th Queue (ft)	45	37	33
Link Distance (ft)		375	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	175		145
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 1: Ramona Avenue & Corporate Center Avenue

Movement	EB	EB	NB	SB
Directions Served	L	R	L	T
Maximum Queue (ft)	43	59	72	52
Average Queue (ft)	14	10	21	2
95th Queue (ft)	35	34	53	18
Link Distance (ft)		375		797
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	175		145	
Storage Blk Time (%)				0
Queuing Penalty (veh)				0

Intersection: 1: Ramona Avenue & Corporate Center Avenue

Movement	EB	EB	NB
Directions Served	L	R	L
Maximum Queue (ft)	66	80	50
Average Queue (ft)	19	15	15
95th Queue (ft)	54	41	40
Link Distance (ft)		375	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	175		145
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 1: Ramona Avenue & Corporate Center Avenue

Movement	EB	EB	NB	NB	NB
Directions Served	L	R	L	T	T
Maximum Queue (ft)	66	38	92	52	74
Average Queue (ft)	20	15	32	2	5
95th Queue (ft)	50	32	68	18	32
Link Distance (ft)		375		263	263
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)	175		145		
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 1: Ramona Avenue & Corporate Center Avenue

Movement	EB	EB	NB
Directions Served	L	R	L
Maximum Queue (ft)	45	78	30
Average Queue (ft)	10	18	6
95th Queue (ft)	30	49	25
Link Distance (ft)		375	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	175		145
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 1: Ramona Avenue & Corporate Center Avenue

Movement	EB	EB	NB	NB	SB	SB
Directions Served	L	R	L	T	T	T
Maximum Queue (ft)	23	42	76	28	74	28
Average Queue (ft)	9	11	14	1	5	1
95th Queue (ft)	26	31	45	10	32	10
Link Distance (ft)		375		263	797	797
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)	175		145			
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 1: Ramona Avenue & Corporate Center Avenue

Movement	EB	EB	NB
Directions Served	L	R	L
Maximum Queue (ft)	45	56	53
Average Queue (ft)	19	21	16
95th Queue (ft)	44	46	41
Link Distance (ft)		375	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	175		145
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 1: Ramona Avenue & Corporate Center Avenue

Movement	EB	EB	NB
Directions Served	L	R	L
Maximum Queue (ft)	43	63	67
Average Queue (ft)	15	14	23
95th Queue (ft)	37	40	51
Link Distance (ft)		375	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	175		145
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 1: Ramona Avenue & Corporate Center Avenue

Movement	EB	EB	NB
Directions Served	L	R	L
Maximum Queue (ft)	60	41	31
Average Queue (ft)	17	14	18
95th Queue (ft)	42	34	41
Link Distance (ft)		375	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	175		145
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 1: Ramona Avenue & Corporate Center Avenue

Movement	EB	EB	NB	NB	NB	SB	SB
Directions Served	L	R	L	T	T	T	T
Maximum Queue (ft)	46	44	75	111	131	125	285
Average Queue (ft)	15	13	29	4	5	4	14
95th Queue (ft)	38	32	54	38	45	43	102
Link Distance (ft)		375		263	263	797	797
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)	175		145				
Storage Blk Time (%)							0
Queuing Penalty (veh)							0

Intersection: 1: Ramona Avenue & Corporate Center Avenue

Movement	EB	EB	NB	SB
Directions Served	L	R	L	T
Maximum Queue (ft)	80	100	50	20
Average Queue (ft)	30	32	20	1
95th Queue (ft)	64	69	45	7
Link Distance (ft)		375		797
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	175		145	
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 1: Ramona Avenue & Corporate Center Avenue

Movement	EB	EB	NB	NB	SB
Directions Served	L	R	L	T	T
Maximum Queue (ft)	44	63	72	30	50
Average Queue (ft)	16	17	33	1	4
95th Queue (ft)	39	42	65	10	23
Link Distance (ft)		375		263	797
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)	175		145		
Storage Blk Time (%)					
Queuing Penalty (veh)					



Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	365	671	71	870	85	23	518	104	97	265	353
v/c Ratio	0.72	0.38	0.39	0.88	0.16	0.16	0.55	0.21	0.49	0.21	0.46
Control Delay (s/veh)	53.0	28.4	51.0	48.9	3.9	48.6	37.4	7.4	53.0	25.5	5.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	53.0	28.4	51.0	48.9	3.9	48.6	37.4	7.4	53.0	25.5	5.5
Queue Length 50th (ft)	123	128	47	309	0	15	169	1	64	62	3
Queue Length 95th (ft)	#195	183	91	#432	24	41	217	41	116	107	71
Internal Link Dist (ft)		607		1171			791			248	
Turn Bay Length (ft)	255		250		415	245		50	150		50
Base Capacity (vph)	512	1769	235	990	520	240	993	512	235	1264	772
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.71	0.38	0.30	0.88	0.16	0.10	0.52	0.20	0.41	0.21	0.46

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	340	1012	99	766	183	26	381	165	162	402	378
v/c Ratio	0.68	0.64	0.48	0.77	0.32	0.18	0.41	0.34	0.70	0.32	0.53
Control Delay (s/veh)	51.5	34.8	52.6	42.0	6.2	48.7	35.6	14.2	62.1	28.6	14.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	51.5	34.8	52.6	42.0	6.2	48.7	35.6	14.2	62.1	28.6	14.2
Queue Length 50th (ft)	115	202	66	241	0	17	127	31	109	125	81
Queue Length 95th (ft)	169	287	118	335	53	45	159	83	#194	158	173
Internal Link Dist (ft)		607		1171			791			248	
Turn Bay Length (ft)	255		250		415	245		50	150		50
Base Capacity (vph)	509	1572	242	1017	577	242	1021	526	242	1268	715
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.67	0.64	0.41	0.75	0.32	0.11	0.37	0.31	0.67	0.32	0.53

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	369	671	71	870	86	23	520	104	100	273	367
v/c Ratio	0.72	0.38	0.39	0.88	0.17	0.16	0.56	0.21	0.50	0.22	0.47
Control Delay (s/veh)	53.1	28.5	51.0	49.2	4.0	48.6	37.5	7.4	53.4	25.6	6.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	53.1	28.5	51.0	49.2	4.0	48.6	37.5	7.4	53.4	25.6	6.1
Queue Length 50th (ft)	124	128	47	310	0	15	170	1	66	64	8
Queue Length 95th (ft)	#198	183	91	#432	25	41	218	41	119	110	83
Internal Link Dist (ft)		607		1171			791			248	
Turn Bay Length (ft)	255		250		415	245		50	150		50
Base Capacity (vph)	513	1768	235	987	519	240	993	512	235	1265	773
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.72	0.38	0.30	0.88	0.17	0.10	0.52	0.20	0.43	0.22	0.47

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	355	1012	99	766	187	26	388	165	164	406	386
v/c Ratio	0.70	0.64	0.48	0.77	0.33	0.18	0.42	0.34	0.71	0.32	0.54
Control Delay (s/veh)	52.6	34.9	52.6	42.3	6.2	48.7	35.6	14.4	62.5	28.5	14.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	52.6	34.9	52.6	42.3	6.2	48.7	35.6	14.4	62.5	28.5	14.4
Queue Length 50th (ft)	120	202	66	244	0	17	130	32	111	126	85
Queue Length 95th (ft)	#186	287	118	335	53	45	162	84	#198	160	178
Internal Link Dist (ft)		607		1171			791			248	
Turn Bay Length (ft)	255		250		415	245		50	150		50
Base Capacity (vph)	510	1570	242	1013	578	242	1018	523	242	1268	717
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.70	0.64	0.41	0.76	0.32	0.11	0.38	0.32	0.68	0.32	0.54

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	392	726	113	958	100	24	616	141	108	308	376
v/c Ratio	0.79	0.46	0.54	0.96	0.19	0.17	0.66	0.29	0.53	0.24	0.50
Control Delay (s/veh)	58.1	32.0	54.9	58.7	5.8	48.6	39.7	12.0	54.3	25.4	8.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	58.1	32.0	54.9	58.7	5.8	48.6	39.7	12.0	54.3	25.4	8.1
Queue Length 50th (ft)	138	154	75	~363	0	16	200	20	71	68	24
Queue Length 95th (ft)	#218	199	133	#503	35	42	262	70	127	123	115
Internal Link Dist (ft)		607		1171			791			248	
Turn Bay Length (ft)	255		250		415	245		50	150		50
Base Capacity (vph)	494	1582	235	1003	526	240	962	499	235	1267	754
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.79	0.46	0.48	0.96	0.19	0.10	0.64	0.28	0.46	0.24	0.50

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	364	1102	138	833	200	27	432	206	179	484	402
v/c Ratio	0.73	0.72	0.61	0.83	0.34	0.18	0.47	0.42	0.75	0.39	0.58
Control Delay (s/veh)	53.9	37.8	57.2	45.6	6.1	48.8	36.3	16.5	65.3	28.9	17.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	53.9	37.8	57.2	45.6	6.1	48.8	36.3	16.5	65.3	28.9	17.9
Queue Length 50th (ft)	123	251	91	292	0	18	138	46	122	145	113
Queue Length 95th (ft)	#193	317	157	#392	55	45	180	110	#225	192	219
Internal Link Dist (ft)		607		1171			791			248	
Turn Bay Length (ft)	255		250		415	245		50	150		50
Base Capacity (vph)	503	1521	244	1001	582	242	990	522	246	1249	690
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.72	0.72	0.57	0.83	0.34	0.11	0.44	0.39	0.73	0.39	0.58

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	397	726	113	958	101	24	619	141	111	315	390
v/c Ratio	0.80	0.46	0.54	0.96	0.19	0.17	0.67	0.29	0.54	0.25	0.52
Control Delay (s/veh)	58.4	32.0	54.9	59.5	5.9	48.6	39.8	12.0	54.6	25.4	8.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	58.4	32.0	54.9	59.5	5.9	48.6	39.8	12.0	54.6	25.4	8.6
Queue Length 50th (ft)	140	154	75	~363	0	16	202	20	73	70	28
Queue Length 95th (ft)	#223	199	133	#503	35	42	263	70	130	126	125
Internal Link Dist (ft)		607		1171			791			248	
Turn Bay Length (ft)	255		250		415	245		50	150		50
Base Capacity (vph)	497	1579	235	998	524	240	962	499	235	1268	757
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.80	0.46	0.48	0.96	0.19	0.10	0.64	0.28	0.47	0.25	0.52

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	379	1102	138	833	204	27	439	206	181	488	411
v/c Ratio	0.75	0.72	0.61	0.83	0.35	0.18	0.48	0.42	0.75	0.39	0.60
Control Delay (s/veh)	55.1	37.6	57.2	45.5	6.1	48.8	36.6	17.0	65.9	29.1	18.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	55.1	37.6	57.2	45.5	6.1	48.8	36.6	17.0	65.9	29.1	18.3
Queue Length 50th (ft)	129	252	91	292	0	18	140	48	124	146	116
Queue Length 95th (ft)	#206	317	157	#392	55	45	183	113	#228	193	226
Internal Link Dist (ft)		607		1171			791			248	
Turn Bay Length (ft)	255		250		415	245		50	150		50
Base Capacity (vph)	505	1528	244	1002	586	242	987	518	247	1244	690
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.75	0.72	0.57	0.83	0.35	0.11	0.44	0.40	0.73	0.39	0.60

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	380	993	108	908	97	24	594	133	104	297	363
v/c Ratio	0.77	0.64	0.53	0.92	0.19	0.17	0.62	0.27	0.51	0.23	0.48
Control Delay (s/veh)	56.8	35.2	54.3	54.0	5.5	48.6	38.3	11.0	53.8	25.1	7.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	56.8	35.2	54.3	54.0	5.5	48.6	38.3	11.0	53.8	25.1	7.3
Queue Length 50th (ft)	132	222	71	330	0	16	193	16	69	66	18
Queue Length 95th (ft)	#208	282	127	#463	32	42	252	63	123	119	103
Internal Link Dist (ft)		607		1171			791			248	
Turn Bay Length (ft)	255		250		415	245		50	150		50
Base Capacity (vph)	492	1558	235	984	518	240	968	502	235	1288	762
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.77	0.64	0.46	0.92	0.19	0.10	0.61	0.26	0.44	0.23	0.48

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	359	1088	137	956	195	30	426	204	176	478	429
v/c Ratio	0.73	0.68	0.61	0.90	0.32	0.20	0.49	0.43	0.75	0.40	0.63
Control Delay (s/veh)	54.2	35.9	57.0	50.1	6.0	49.0	37.1	16.5	66.1	29.8	18.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	54.2	35.9	57.0	50.1	6.0	49.0	37.1	16.5	66.1	29.8	18.9
Queue Length 50th (ft)	122	250	91	351	0	20	134	45	120	142	120
Queue Length 95th (ft)	#189	312	157	#491	54	49	177	108	#219	190	236
Internal Link Dist (ft)		607		1171			791			248	
Turn Bay Length (ft)	255		250		415	245		50	150		50
Base Capacity (vph)	496	1600	244	1061	602	242	971	514	242	1189	678
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.72	0.68	0.56	0.90	0.32	0.12	0.44	0.40	0.73	0.40	0.63

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	384	993	108	908	98	24	596	133	107	304	376
v/c Ratio	0.78	0.64	0.53	0.92	0.19	0.17	0.63	0.27	0.52	0.24	0.49
Control Delay (s/veh)	57.2	35.2	54.3	54.1	5.6	48.6	38.4	11.0	54.2	25.1	7.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	57.2	35.2	54.3	54.1	5.6	48.6	38.4	11.0	54.2	25.1	7.8
Queue Length 50th (ft)	134	222	71	330	0	16	193	16	71	68	23
Queue Length 95th (ft)	#211	282	127	#463	33	42	252	63	127	122	112
Internal Link Dist (ft)		607		1171			791			248	
Turn Bay Length (ft)	255		250		415	245		50	150		50
Base Capacity (vph)	493	1558	235	983	518	240	967	501	235	1288	764
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.78	0.64	0.46	0.92	0.19	0.10	0.62	0.27	0.46	0.24	0.49

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	373	1088	137	956	199	30	433	204	178	482	437
v/c Ratio	0.76	0.68	0.61	0.90	0.33	0.20	0.50	0.43	0.76	0.40	0.64
Control Delay (s/veh)	56.0	36.1	57.0	50.5	6.0	49.0	37.1	16.7	66.7	29.7	19.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	56.0	36.1	57.0	50.5	6.0	49.0	37.1	16.7	66.7	29.7	19.2
Queue Length 50th (ft)	129	254	91	351	0	20	135	45	121	141	122
Queue Length 95th (ft)	#201	312	157	#491	54	49	180	110	#223	192	243
Internal Link Dist (ft)		607		1171			791			248	
Turn Bay Length (ft)	255		250		415	245		50	150		50
Base Capacity (vph)	492	1592	244	1057	604	242	971	513	242	1195	682
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.76	0.68	0.56	0.90	0.33	0.12	0.45	0.40	0.74	0.40	0.64

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

APPENDIX F

VMT CALCULATION WORKSHEETS

LSA

Appendix F

Chino Corporate Center Residential, City of Chino - VMT Analysis

Project Generated VMT

	2019 Chino Gateway (Project)	City of Chino General Plan Buildout (Threshold)*
Population (a)	396	39,940
Employment (b)	-	111,888
Service Population (c = a+b)	396	62,352
Origin - Destination (OD) VMT (d)	11,321	7,904,945
OD VMT per service population (e=d/c)	**28.6**	**45.4**

	2050 Chino Gateway (Project)	City of Chino General Plan Buildout (Threshold)*
Population (a)	396	39,940
Employment (b)	-	111,888
Service Population (c = a+b)	396	62,352
Origin - Destination (OD) VMT (d)	9,673	7,904,945
OD VMT per service population (e=d/c)	**24.4**	**45.4**

** estimated using LSA no project model runs*

Project's effect on VMT - Roadway VMT within City of Chino

2019	With Project	Without Project
Roadway VMT	2,513,484	2,512,375
Service population	152,902	152,506
VMT per service population	16.4	16.5

2050	With Project	Without Project
Roadway VMT	3,255,735	3,255,102
Service population	174,636	174,240
VMT per service population	18.6	18.7

** estimated using LSA no project model runs*

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Appendix J. Mitigation Monitoring and Reporting Program

14892 CORPORATE CENTER AVENUE/EUCALYPTUS BUSINESS PARK SPECIFIC PLAN ADDENDUM
MITIGATION MONITORING PROGRAM

Terms and Definitions:

1. **Property Owner/Developer** – BCT Development
2. **Environmental Equivalent/Timing** – Any Mitigation Measure and timing thereof, subject to the approval of the City of Chino, which will have the same or superior result and will have the same or superior effect on the environment. The Development Services Department, in conjunction with any appropriate agencies or City departments, shall determine the adequacy of any proposed "environmental equivalent/timing" and, if determined necessary, may refer said determination to the Planning Commission. Any costs associated with information required in order to make a determination of environmental equivalency/timing shall be borne by the property owner/developer. Staff time for reviews will be charged on a time and materials basis at the rate in the City's adopted fee schedule.
3. **Timing** – This is the point where a mitigation measure must be monitored for compliance. In the case where multiple action items are indicated, it is the first point where compliance associated with the mitigation measure must be monitored. Once the initial action item has been complied with, no additional monitoring pursuant to the Mitigation Monitoring Program will occur because routine City practices and procedures will ensure that the intent of the measure has been complied with. For example, if the timing is "to be shown on approved building plans" subsequent to issuance of the building permit consistent with the approved plans will be final building and zoning inspections pursuant to the building permit to ensure compliance.
4. **Responsibility for Monitoring** – Shall mean that compliance with the subject mitigation measure(s) shall be reviewed and determined adequate by all departments listed for each mitigation measure.
5. **Ongoing Mitigation Measures** – The mitigation measures that are designated to occur on an ongoing basis as part of this mitigation monitoring program will be monitored in the form of an annual letter from the property owner/developer in January of each year stating how compliance with the subject measures(s) has been achieved. When compliance with a measure has been demonstrated for a period of one year, monitoring of the measure will be deemed to be satisfied and no further monitoring will occur. For measures that are to be monitored "Ongoing During Construction," the annual letter will review those measures only while construction is occurring. Monitoring will be discontinued after construction is completed.
6. **Building Permit** – For purposes of this mitigation monitoring program, a building permit shall be defined as any permit issued for construction of a new building or structural expansion or modification of any existing building but shall not include any permits required for interior tenant improvements or minor additions to an existing structure or building.

The following mitigation measures from the Certified Eucalyptus Business Park Specific Plan EIR are applicable to the Proposed Project to address environmental impacts. Where appropriate, italicized parentheticals are used to provide additional information and clarification regarding the implementation of a particular measure's requirements or the reason the measure is no longer applicable.

Timing	Mitigation Measure	Responsible for Monitoring	Completion
AIR QUALITY			
N/A	**MM AQ-1** The City will include a standard condition on all grading plans and map approvals regarding dust control. This condition will help include but is not limited to regularly watering uncovered soil at least twice a day (late morning and after work) to form a crust on the surface, by paving dirt streets and roads, and by implementing other dust prevention measures outlined in the Air Quality Management District Rule Number 403. *(This measure is superseded by regulatory compliance with SCAQMD Rule 403, which establishes watering and dust-prevention measures and standards. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM AQ-2** Employers must meet the requirements of the Transportation Demand Management (TDM) Program contained in the Specific Plan. The TDM Program encourages alternative transportation such as bicycling or busses, and aims at reducing employee home-to-work mileage by offering incentives for carpooling, ride sharing, and other measures. *(This measure does not apply to the Proposed Project as the Proposed Project does not include any employee-producing uses on site as it is a residential project compared to the previously approved project which was designated for Office Commercial and Auto Mall uses. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM AQ-3** Bus stops will be provided at locations approved by Omnitrans so as to be convenient employees of the site, and shall encourage the extension of bus service into the interior of the project site as it is developed. *(This measure does not apply to the Proposed Project as the Proposed Project does not include any employee-producing uses on site as it is a residential project compared to the previously approved project which was designated for Office Commercial and Auto Mall uses. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM AQ-4** Bicycle racks or similar facilities shall be provided as per the TDM Program to encourage the use of bicycles. *(These improvements have been incorporated into the project design, see Section 3.2, Project Description and Figure 3, Site Plan. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM AQ-5** Sidewalks and street lights shall be installed and maintained to encourage pedestrian travel within the site. (*These improvements have been incorporated into the project design, see Section 3.2, Project Description and Figure 4, Conceptual Landscape Plan and Figure 5, Pedestrian Access Plan. No further action or reporting is required pursuant to this measure.)*	N/A	

Timing	Mitigation Measure	Responsible for Monitoring	Completion
N/A	**MM AQ-6** Mitigation measures aimed at towards reducing the consumption of utility services, and thus minimizing pollution emissions from stationary sources, are included In the Utilities section of this document. *(This mitigation measure is superseded by regulatory compliance with SCAQMD's rules and regulations, including stationary and mobile source control measures set forth in the adopted Air Quality Management Plan. No further action or reporting is required pursuant to this measure.)*	N/A	
BIOLOGICAL RESOURCES			
N/A	**MM BIO-1** Implementation of the Landscape Concept Plan of the specific plan will help reduce potential impacts to raptors, new developments will install native or local species of trees to provide future raptor perches. Landscaping materials will eventually support wildlife, primarily songbirds, or other opportunistic species that can tolerate proximity to human activity. *(An updated landscape plan has been prepared for the Proposed Project. Additionally, these improvements have been incorporated into the project design, see Section 3.2, Project Description and Figure 4, Conceptual Landscape Plan. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM BIO-2** The design of the two flood control channels will include biological easements to help prevent impacts to the Burrowing Owls and other raptors onsite. A combination flood control/biological consideration easement will be set aside along the San Antonio Channel (See Figure 16). Provision of the easements will not directly affect the channel. This area will be bermed to provide additional flood control capacity and to help protect the habitat of the Burrowing Owl. The biological consultant has indicated that this proposed plan will provide adequate mitigation for the Burrowing Owl. This conservation easement area will be approved by the County Flood Control District and the California Department of Fish and Game prior to the issuance of any occupancy permits. *(The biological easement is not within the boundaries of the Project Site. This measure does not apply to the Proposed Project. No further action or reporting is required pursuant to this measure.)*	N/A	

Timing	Mitigation Measure	Responsible for Monitoring	Completion
Prior to issuance of grading permit	**MM BIO-3** Affected future developers shall retain a qualified biologist to help plan and monitor construction in or near the flood control/biological easement land. ~~The biologist will submit a report on the easement areas each year for three (3) years to the City Planning Department on the status of the Burrowing Owls.~~ Prior to issuance of grading permit, the applicant shall submit a protocol Burrowing Owl Survey to the City Planning Department. If burrowing owls or their sign is found on the project site, then consultation with CDFW must be initiated as per the 2012 Staff Report on Burrowing Owl Mitigation. The project must adhere to any mitigation methods set forth by CDFW. If no burrowing owls or burrowing owl sign is found during the surveys, then a burrowing owl clearance survey shall be conducted before any ground-disturbing activities in accordance with the California Department of Fish and Wildlife 2012 Staff Report on Burrowing Owl Mitigation. [*This mitigation measure has been revised to reflect adoption of the California Department of Fish and Wildlife 2012 Staff Report on Burrowing Owl Mitigation, which occurred after certification of the original EIR. The mitigation measure, as revised, is a minor technical change, is more effective than the original mitigation measure and does not result in any new significant impacts. Therefore, this change does not result in any of the conditions set forth in CEQA Guidelines Section 15162.*].	Project Applicant and Qualified Biologist	
N/A	**MM BIO-4** Affected future developers will negotiate with the Edison Company to provide a portion of the power corridor to be used as a conservation easement. This easement will allow the land to remain undeveloped and continue to provide forage for plants and animals that in turn support the wildlife along the flood control channels (including the Burrowing Owl and other raptors). *(The Southern California Edison Easement is not within the boundaries of the Project Site. This measure does not apply to the Proposed Project. No further action or reporting is required pursuant to this measure.)*	N/A	
GEOLOGY AND SOILS			
N/A	**MM GEO-1** Future developments shall acquire a Department of Army permit if the San Antonio Channel is affected by the particular project. *(The San Antonio Channel is not within the boundaries of the Project Site. This measure does not apply to the Proposed Project. No further action or reporting is required pursuant to this measure.)*	N/A	
Prior to issuance of grading permit	**MM GEO-2** Applicants for individual development projects shall prepare geotechnical reports to the City of Chino to determine the appropriate design of buildings, footings, foundations, etc., prior to issuance of a grading permit.	Development Services Director & City Engineer	
Prior to issuance of building permit	**MM GEO-3** All building plans shall be prepared and stamped by a qualified engineer to assure that new buildings will be constructed in conformance with the Uniform Building Code, specifically those standards pertaining to earthquake damage reduction.	Development Services Director & City Engineer	
Prior to issuance of building permit	**MM GEO-4** If determined necessary by the City, the applicant shall submit an analysis of potential seismic effects onsite, including estimated values of peak ground motion, in accordance with accepted engineering standards.	Development Services Director & City Engineer	

Timing	Mitigation Measure		Responsible for Monitoring	Completion
Prior to issuance of grading permit	**MM GEO-5**	In order to fully evaluate potential liquefaction hazard, as well as the possibility of seismicity induced settlement and ground lurching, applicants for individual development projects shall precisely locate the water table and collect soil samples so that the potential for seismic settling can be taken into account in project design, prior to issuance of grading permit. In addition, a Standard Penetration Test sampling of potentially liquefiable soils will also be conducted.	Development Services Director & City Engineer	
Prior to issuance of grading permit	**MM GEO-6**	The project engineers for individual projects within the specific plan area shall prepare grading plans to determine the cut and fill ratio required to minimize the amount of imported or exported soil needed.	Development Services Director & City Engineer	
Prior to issuance of grading permit	**MM GEO-7**	The nature and extent of suitable onsite alluvial materials shall be further examined as part of future geotechnical investigations for individual projects prior to issuance of grading permits.	Development Services Director & City Engineer	
Prior to issuance of grading permit and during construction	**MM GEO-8**	To mitigate the potential settlement of compressible soils, these materials shall either be removed prior to fill placement or compacted in place.	Development Services Director & City Engineer	
Prior to issuance of grading permit and during construction	**MM GEO-9**	Individual project applicants and their contractors shall comply with all applicable provisions of the City's construction standards and guidelines.	Development Services Director & City Engineer	
Prior to issuance of grading permit	**MM GEO-10**	Future developments shall prepare foundation studies to determine if their particular project is located on soils characterized with sufficient bearing strength.	Development Services Director & City Engineer	
During construction	**MM GEO-11**	Individual project applicants shall, to the satisfaction of the City, implement measures to minimize project erosion during the construction phase. Erosion control measures include, but are not limited to the following: • Place sandbags around the perimeter of the site prior to initial grading if grading is to be undertaken during the rainy season. • Minimize the length of time soils lay exposed. • Water down all exposed soils periodically. • Revegetate grading areas under the direction of a licensed landscape architect.	Development Services Director & City Engineer	
HAZARDS AND HAZARDOUS MATERIALS				
N/A	**MM HAZ-1**	Prior to issuance of a business license, individual businesses, with the exception of office uses, shall provide the Chino Rural Fire Protection District with an inventory of all hazardous materials and substances used at the site, a description of where and how each is stored, and how each business will react in a fire. This inventory shall be updated every three (3) months. *(This measure does not apply to the Proposed Project as the Proposed Project does not include or proposed any businesses on site as it is a residential project compared to the previously approved project which was designated for Office Commercial and Auto Mall uses. No further action or reporting is required pursuant to this measure.)*	N/A	

Timing	Mitigation Measure	Responsible for Monitoring	Completion
N/A	**MM HAZ-2** Prior to issuance of a business license, individual businesses, with the exception of office uses, shall submit for the review and approval by the City Planning and Engineering Divisions and the Chino Rural Fire Protection District, a Hazardous Materials and Waste Management Plan. The plan shall provide for the use of the best available technology within the production process. The plan shall also describe proposed methods for source reduction, treatment, handling, transportation, and disposal of potential hazardous substances, including emergency response and employee training procedures. Businesses shall submit another Hazardous Materials and Waste Management Plan if and when other materials are handled in the future. *(This measure does not apply to the Proposed Project as the Proposed Project does not include or proposed any businesses on site as it is a residential project compared to the previously approved project which was designated for Office Commercial and Auto Mall uses. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM HAZ-3** Placards and other appropriate signage shall be maintained in oil uses indicating the storage location of any hazardous substance. *(This measure is superseded by regulatory compliance. Adherence to existing hazardous materials regulations would ensure compliance with existing safety standards related to hazardous materials, and the safety procedures mandated by applicable federal, state, and local laws and regulations (RCRA, California Hazardous Waste Control Law, and principles prescribed by the California Department of Health Services, Centers for Disease Control and Prevention, and National Institutes of Health. Additionally, the Proposed Project does contain any oil uses on site. No further action or reporting is required pursuant to this measure.)*	N/A	
LAND USE			
N/A	**MM LU-1** Buildout of the project shall be phased so as to ensure the orderly transition of land out of dairy use by permitting existing agricultural land uses to remain as desired by the owners. *(The Project Site does not currently contain any dairy or agricultural uses. It is currently vacant. This measure no longer applies. No further action or reporting is required pursuant to this measure.)*	N/A	

Timing	Mitigation Measure	Responsible for Monitoring	Completion
N/A	**MM LU-2** All future project designs shall be required to conform with design and construction standards set forth in the Eucalyptus Business Park Specific Plan, Chino General Plan, Zoning Ordinance and all applicable regulatory mechanisms. *(This measure is superseded by regulatory compliance. Compliance with the Eucalyptus Business Park Specific Plan, the Chino General Plan, the City Zoning Ordinance, and other applicable regulatory mechanisms is a mandatory condition of project approval, All future project designs are already subject to these requirements through the City's standard planning, zoning, and building permit processes. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM LU-3** The City will coordinate with Omnitrans regarding transit service to the project area, this including possible provision of a private shuttle service. *(This mitigation measure has been satisfied. Omnitrans local bus Route 88 currently operates at the closest bus stop (approximately 1.5 miles) from the Project Site, at the intersection of Pipeline Avenue/Edison Avenue. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM LU-4** For specific mitigation measures related to issues such as grading biological resources, transportation, public services and utilities, etc., refer to appropriate sections in this EIR. *(This mitigation measure does not contain any specific mitigation but instead refers to other mitigation measures and their respective sections. Please refer to the respective sections to see their applicability or lack thereof. No further action or reporting is required pursuant to this measure.)*	N/A	
PUBLIC SERVICES			
Fire Protection			
N/A	**MM PS-1** All future developments shall be reviewed and approved by the City Development Review Committee. The committee shall determine specific impacts of each development. At a minimum, the committee shall consider projected increase in fire flow; determine the location, type, and quantity of onsite fire hydrants; determine the appropriate location of fire lanes and access ways; and determine the width of access ways. The committee shall also recommend mitigation measures regarding required improvements. These mitigation measures shall be considered as conditions of approval for project entitlements. *(This mitigation measure is superseded by regulatory compliance as review of all future developments by the City's Development Review Committee — including fire flow analysis, hydrant placement, emergency access, and related mitigation recommendations — is already a standard part of the project entitlement and permitting process. These elements are also governed by applicable provisions of the California Fire Code and the City of Chino's Municipal Code and development standards. No further action or reporting is required pursuant to this measure.)*	N/A	

Timing	Mitigation Measure	Responsible for Monitoring	Completion
N/A	**MM PS-2** Developers of individual projects shall pay appropriate County and City fees to help offset costs of construction of new facilities which will serve the site. If required by the Fire Marshall, fees would also be assessed for purchase of a fire truck with hook and ladder capabilities. *(This mitigation measure is superseded by regulatory compliance as developers are required by law to pay applicable City and County development impact fees, including fees for fire protection facilities and equipment as determined necessary by the Fire Marshal. These fees are collected during the entitlement or building permit process and are codified in local ordinances and fee schedules. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM PS-3** Developers of structures 7,500 s.f. or larger shall provide for fire safety sprinkler systems in accordance with the City's Sprinkler Ordinance. *(This mitigation measure is superseded by regulatory compliance, specifically compliance with Section 15.04.050, Section 903.2 Amended, Automatic Sprinkler Systems. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM PS-4** All water mains and hydrants shall be constructed in accordance with all applicable City standards and guidelines. *(This mitigation measure is superseded by regulatory compliance as the design and construction of all water mains and hydrants are already subject to mandatory compliance with applicable City standards and guidelines. These requirements are enforced through the City's engineering plan check, permitting, and inspection processes. No further action or reporting is required pursuant to this measure.)*	N/A	
Police Protection			
N/A	**MM PS-5** All future developments shall be reviewed and approved by the City's Development Review Committee. The committee shall determine if additional personnel and facilities are required to service the development being proposed. The committee shall recommend measures to mitigate impacts. These mitigation measures shall be considered as conditions of approval for project entitlements. *(This mitigation measure is superseded by regulatory compliance as the review of future developments by the City's Development Review Committee, including assessment of required personnel and facilities and the imposition of conditions of approval to mitigate impacts, is a routine and mandatory part of the City's entitlement and permitting process. No further action or reporting is required pursuant to this measure.)*	N/A	

Timing	Mitigation Measure	Responsible for Monitoring	Completion
N/A	**MM PS-6** The site plan and development standards for future developments shall. include adequate emergency access and circulation throughout the project, landscape features which do not conceal criminal activity, and adequate security lighting on buildings and parking lot facilities. *(This mitigation measure is superseded by regulatory compliance as requirements for adequate emergency access, landscaping that minimizes concealment of criminal activity, and security lighting are already mandated by applicable building codes, fire codes, design guidelines, and zoning regulations. These provisions are enforced through the City's standard site plan and design review processes. No further action or reporting is required pursuant to this measure.)*	N/A	
Parks/Recreational Facilities			
N/A	**MM PS-7** Future affected developers adjacent to proposed parks, open space and conservation areas shall dedicate required areas for park and trail uses. *(The Proposed Project is not located directly adjacent to a proposed park, open space, or conservation area. No further action or reporting is required pursuant to this measure.)*	N/A	
TRANSPORTATION			
N/A	**MM TRAN-1** To accommodate adjusted cumulative plus project volumes, the City shall upgrade from primary to major arterial status Chino Hills Parkway to provide six lanes from Pipeline to Monte Vista Avenues; Central Avenue to provide six lanes north of Chino Hills Parkway and north of Eucalyptus Avenue; and Ramona Avenue to provide six lanes north of Chino Hills Parkway to Norton Avenue. *(Compliance with this mitigation measure has been completed because the area in question including the streets, has already been constructed. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM TRAN-2** The project developers shall dedicate appropriate rights-of-way to accommodate the ultimate improvement of all master planned streets. *(This mitigation measure is superseded by regulatory compliance because dedication of rights-of-way for master planned streets is a standard and mandatory requirement imposed through the City's subdivision and development approval processes. Compliance with these requirements is a condition of project approval. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM TRAN-3** The City shall require dedication and improvement of all planned streets prior to the issuance of final subdivision or final development permit approval. *(Compliance with this mitigation measure has been completed because the area in question including the streets, has already been constructed. No further action or reporting is required pursuant to this measure.)*	N/A	

Timing	Mitigation Measure		Responsible for Monitoring	Completion
N/A	**MM TRAN-4**	Right-of-way dedications shall be aligned to match up with existing dedications along adjacent parcels and shall be of a width consistent with the master planned designations. *(This measure is considered satisfied and no longer applicable because right-of-way dedications are required by the City's subdivision and public works standards to align with existing adjacent dedications and to conform to master planned widths. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM TRAN-5**	All master planned streets that are adjacent to the project site shall be constructed to their master planned widths. *(Compliance with this mitigation measure has been completed because the area in question, including the streets, has already been constructed. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM TRAN-6**	The LOS of all master planned streets adjacent to the project site shall be maximized by prohibiting parking and controlling roadway access. *(This mitigation measure is superseded by regulatory compliance because CEQA now evaluates transportation impacts based on Vehicle Miles Traveled (VMT) rather than Level of Service (LOS). As a result, measures aimed at maximizing LOS by prohibiting parking and controlling access do not address the environmental impacts CEQA currently considers significant. Compliance with current CEQA Guidelines and local VMT thresholds replaces this measure. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM TRAN-7**	The proposed internal circulation layout associated with future developments shall be subject to the review and approval of the City Traffic Engineer during the review process of each development to ensure compliance with City and specific plan access, parking and design standards. *(This mitigation measure is superseded by regulatory compliance with applicable City and Specific Plan standards. Review and approval of internal circulation layouts by the City Traffic Engineer is a standard and mandatory component of the development review and entitlement process. No further action or reporting is required pursuant to this measure.)*	N/A	

Timing	Mitigation Measure		Responsible for Monitoring	Completion
N/A	**MM TRAN-8**	Traffic signals shall be installed when warranted at Eucalyptus Avenue at Norton, Romona, Yorba, Monte Vista, and Central Avenues; Ramona Avenue at Norton Avenue; and Chino Hills Parkway at SR 71 south and northbound ramps and Ramona, Monte Vista and Central Avenues. In addition, a traffic signal at Chino Hills Parkway and Telephone Avenue may be needed to accommodate emergency vehicles from the proposed fire station at this intersection. This signal will only be used for emergency interruption purposes. *(Compliance with this mitigation measure has been completed because these improvements have already been completed. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM TRAN-9**	Lane geometric improvements shall be required for key intersections to accommodate cumulative peak hour volumes. *(This mitigation measure is not applicable. Total Vehicle Miles Traveled (VMT) for San Bernardino County would not increase with the Proposed Project as compared to the Approved Project, the Proposed Project would not cause a significant impact for baseline of cumulative scenarios. Lane geometric improvements are therefore not necessary. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM TRAN-10**	Fees to construct and/or install traffic signals, bridges, or other public improvements shall be assessed where appropriate at the time of development based on a formula which takes benefits into account. *(This mitigation measure is superseded by regulatory compliance. The City requires payment of fees for traffic signals, bridges, and other public improvements through its adopted development impact fee program. These fees are assessed based on benefit-based formulas and are collected during the development review and permitting process. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM TRAN-11**	Where the project-related traffic volumes on offsite roadways cause undue congestion without appropriate improvements, the project developer shall be required to improve offsite roadways to applicable standards to avoid congestion and safety problems. *(This mitigation measure is not applicable as the Proposed Project was found to have a reduction in Vehicle Miles Traveled (VMT) compared to the Approved Project and would therefore not cause undue congestion and safety problems. No further action or reporting is required pursuant to this measure.)*	N/A	

Timing	Mitigation Measure		Responsible for Monitoring	Completion
N/A	**MM TRAN-12**	Future developers shall be required to contribute funds on a fair-share basis for circulation improvements of area wide benefit, such as the Central Avenue bridge over the San Antonio Creek Channel. *(This mitigation measure is superseded by regulatory compliance. Fair-share developer contributions for regional circulation improvements are already required through the City's adopted development impact fee program. These contributions are assessed and collected during the development approval process, ensuring compliance. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM TRAN-13**	Future developers ·shall be required to comply with design standards and guidelines pertaining to access, circulation, and parking presented in the Eucalyptus Business Park Specific Plan. *(This mitigation measure is satisfied as compliance with the design standards and guidelines in the Eucalyptus Business Park Specific Plan is required by the City's Municipal Code. The Code mandates that all development within a specific plan area must conform to the adopted plan, and these requirements are further supported by general development regulations in the Municipal Code. These provisions are enforced through the City's planning ,engineering, and building permit review processes. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM TRAN-14**	Transportation Demand Management (TDM) Plans shall be required of developers or property owners detailing a TDM program to be established at each proposed worksite. Two levels of TDM Plans are required for single and multi-tenant work sites. An Alternative Commute Mode Awareness Plan shall be required for future developments anticipating a total of 25 to 99 employees. Worksites anticipating 100 or more employees shall be required to prepare a Eucalyptus Business Park Trip Reduction Plan. *(This measure does not apply to the Proposed Project as the Proposed Project does not include any employee-producing uses on site as it is a residential project compared to the previously approved project which was designated for Office Commercial and Auto Mall uses. No further action or reporting is required pursuant to this measure.)*	N/A	
UTILITIES AND SERVICE SYSTEMS				
N/A	**MM USS-1**	All utility lines serving the various development areas shall be placed underground per City standards. *(This mitigation measure is considered already satisfied and no longer applicable because the undergrounding of utility lines is required by Chino Municipal Code, Chapter 19 – Subdivisions. This requirement is enforced through the City's standard plan review, entitlement, and inspection processes. No further action or reporting is required pursuant to this measure.)*	N/A	

Timing	Mitigation Measure		Responsible for Monitoring	Completion
N/A	**MM USS-2**	No structures shall be permitted to be developed over existing pipelines, power lines or other similar easements. *(This mitigation measure is satisfied by regulatory compliance as the placement of structures over existing pipelines, power lines, or other utility easements is strictly prohibited by existing laws and regulations, including recorded easement agreements, the California Building Code, and the City of Chino's development standards. During the entitlement and permitting process, all site plans are reviewed by City staff and applicable utility providers to ensure that proposed development does not encroach on easements. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM USS-3**	All onsite improvements shall be provided by the developer to each future development in accordance with the provisions of any City adopted master plan, unless costs are otherwise determined as a result of a negotiated development agreement. *(This mitigation measure is considered already satisfied and no longer applicable because the use of drought-tolerant plants, irrigation systems with rain sensors, and graywater systems is required by the City's landscape ordinances and the California Model Water Efficient Landscape Ordinance. These requirements are enforced through the City's landscape plan review and building permit processes. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM USS-4**	Costs for improvements shall be assigned to each future development in accordance with a cost-benefit formula established by the Public Works Director. *(This mitigation measure is considered already satisfied and no longer applicable because the assignment of improvement costs to future developments based on a cost-benefit formula is an existing administrative procedure managed by the City's Public Works Director. These procedures are implemented through conditions of approval and development agreements, ensuring compliance as part of the standard project review and permitting process. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM USS-5**	All future developers of the Eucalyptus Business Park shall comply with standards and guidelines of the specific plan. *(This mitigation measure is satisfied as compliance with the standards and guidelines in the Eucalyptus Business Park Specific Plan is required by the City's Municipal Code. The Code mandates that all development within a specific plan area must conform to the adopted plan, and these requirements are further supported by general development regulations in the Municipal Code. These provisions are enforced through the City's planning ,engineering, and building permit review processes. No further action or reporting is required pursuant to this measure.)*	N/A	
Water				

Timing	Mitigation Measure		Responsible for Monitoring	Completion
N/A	**MM USS-6**	Future developers shall pay fees to appropriate agencies for purposes of providing sufficient water for estimated domestic consumption and for fire flow requirements as required by the City Fire Chief. *(This mitigation measure is considered already satisfied and no longer applicable because payment of fees for water supply and fire flow, as required by the City Fire Chief and applicable water agencies, is a standard condition of development approval. These requirements are enforced through the City's permitting process and water service agreements. No further action is required pursuant to this measure.)*	N/A	
N/A	**MM USS-7**	The specific plan shall adhere to all applicable Department of Water Resources water conservation guidelines and standards. *(This mitigation measure is considered already satisfied and no longer applicable because adherence to the California Department of Water Resources' water conservation guidelines and standards is mandated by state law and incorporated into the City's local ordinances and development review processes. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM USS-8**	The City shall establish a reclaimed water system for use on median and parkway landscaping and the irrigation of the Ayala Park expansion. *(This mitigation measure does not apply to the Proposed Project as it does not include the expansion of the Ayala Park. Additionally, improvements to Ayala Park have already been completed. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM USS-9**	Future developers shall utilize drought resistant plant materials which will have minimal maintenance needs, except where reclaimed water is used. *(This mitigation measure is satisfied through the Proposed Project's compliance with the California Green Building Code (CALGreen). CALGreen includes requirements for landscaping. Landscaping requirements include drought-tolerant plants, irrigation systems with rain sensors, and graywater systems for reuse of wastewater. No further action or reporting is required pursuant to this measure.)*	N/A	
Sewer and Sewage Treatment				

Timing	Mitigation Measure		Responsible for Monitoring	Completion
N/A	**MM USS-10**	The City shall determine, analyze and approve the precise size and the alignment of all required sewer improvements. *(This mitigation measure is satisfied through regulatory compliance. The City of Chino's Public Works Department is responsible for reviewing, analyzing, and approving the size and alignment of all sewer improvements for development projects. As part of the standard development review process, project engineers submit detailed sewer improvement plans that are evaluated for conformance with the City's engineering design standards, capacity requirements, and master plans. Approval of these plans is required prior to issuance of grading or building permits. This regulatory review process ensures that sewer infrastructure is properly designed to serve the project and meet City standards. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM USS-11**	Developers of each respective project shall construct required hook-ups to existing sewer systems. Each developer shall pay all required mitigation fees for sewer connections. Assurance for provision of adequate sewer service is required prior to final map recordation. *(This mitigation measure is considered already satisfied and no longer applicable because the City of Chino's Municipal Code mandates that all developments must connect to existing sewer systems (Chino Municipal Code §13.04.020), pay required sewer connection fees prior to permit issuance (§13.08.060), and provide assurance of adequate sewer service before final map recordation (§19.04.080 and §19.04.090). These requirements are enforced through the City's standard subdivision and permitting processes, including review by the City Engineer and Public Works Department. Compliance with these code provisions ensures that sewer infrastructure is properly connected and funded prior to development approval. No further action or reporting is required pursuant to this measure.)*	N/A	
Stormwater Drainage				
N/A	**MM USS-12**	If required by the County Flood Control District, future developers shall pay fees for the purpose of formulating a comprehensive study of the San Antonio Channel and its tributaries and a drainage master plan for the specific plan. *(This mitigation measure does not apply to the Proposed Project as the Proposed Project is not impacting the San Antonio Channel. No further action or reporting is required pursuant to this measure.)*	N/A	

Timing	Mitigation Measure		Responsible for Monitoring	Completion
N/A	**MM USS-13**	The specific plan shall provide two 3 to 5 acre parks, retain project-generated storm runoff, design parking lots to retard acceleration of runoff, and limit hardscape and provide as much landscape as feasibly possible. *(This mitigation measure is not applicable as it applies to the entirety of the Eucalyptus Business Park Specific Plan area, as the Project Site was designated for Office Commercial and Auto Mall use, it was not anticipated to have a park. However, the mitigation measure would also be satisfied as the Proposed Project would comply with the California Green Building Code (CalGreen) which requires the implementation of stormwater controls and development of a Stormwater Pollution Prevention Plan (SWPPP) for projects less than one acre to minimize the amount of sediment and other pollutants from being discharged in stormwater runoff during construction, as well as various temporary Best Management Practices (BMPs) designed to prevent erosion and siltation, as well as the off-site conveyance of various on-site constituents. No further action or reporting is required pursuant to this measure.)*	N/A	
Solid Waste				
N/A	**MM USS-14**	The City shall formulate a City-wide recycling program in efforts of encouraging recycling within the City. Waste reduction methods and future recycling facility design standards shall be addressed in the program. *(This mitigation measure is considered already satisfied and no longer applicable because the City of Chino has established a city-wide recycling program that complies with state mandates and local ordinances. Waste reduction methods and recycling facility design standards are addressed through existing City programs and guidelines administered by the Public Works Department. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM USS-15**	Future developers shall not permit accumulation of unbagged garbage. (This mitigation measure is satisfied as *waste reduction methods and recycling facility design standards are addressed through existing City programs and guidelines administered by the Public Works Department. No further action or reporting is required pursuant to this measure.)*	N/A	
Telephone				
N/A	**MM USS-16**	Future developers shall submit site plans, pad locations, etc. of their project to General Telephone. Developers shall provide conduits and manholes at locations required by General Telephone. *(This mitigation measure is no longer applicable as General Telephone no longer exists, it is now Frontier Communications. Additionally, coordination with utilities is now required by standard regulations (local and state). No further action or reporting is required pursuant to this measure.)*	N/A	

Timing	Mitigation Measure		Responsible for Monitoring	Completion
Electricity				
N/A	**MM USS-17**	Future developers shall coordinate with Southern California Edison to ensure that sufficient electrical services are provided, Site plans, building pad locations, etc. will be submitted to SCE upon availability. *(This mitigation measure is considered already satisfied and no longer applicable because coordination with Southern California Edison (SCE) is a standard requirement for all development projects. Developers are required to submit site plans, building pad locations, and load demands to SCE during the entitlement and permitting process to ensure adequate electrical service. The City of Chino does not issue grading or building permits without verification that utility service will be available. Therefore, this measure does not provide additional mitigation beyond existing regulatory procedures and utility coordination requirements and is considered redundant under CEQA Guidelines §15126.4(a)(1)(B). No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM USS-18**	Future developers shall pay all necessary hook-up fees and applicable tariffs prior to issuance of certificate of occupancy. *(This mitigation measure is considered already satisfied and no longer applicable because payment of all utility hook-up fees and applicable tariffs is required by utility service providers and enforced by the City of Chino as a condition of final occupancy. The City does not issue Certificates of Occupancy until it receives verification that all required connection and service fees have been paid. These requirements are established by the City's Municipal Code and utility agency regulations and are enforced through standard development review and permitting procedures. No further action or reporting is required pursuant to this measure.)*	N/A	
N/A	**MM USS-19**	The proposed development shall comply with all energy conservation standards and techniques. SCE can provide assistance in selection of effective energy conservation techniques as well as assistance in infrastructure construction. *(This mitigation measure is superseded by regulatory compliance. The Proposed Project would be subject to the Title 24 Building Energy Efficiency Standards, which apply to new construction and regulate energy consumed for heating, cooling, ventilation, water heating, and lighting, as further discussed below. Compliance with the most recent applicable Building Energy Efficiency Standards would ensure that the energy efficiency of the proposed buildings is maximized to the extent feasible. The most recent adopted standards, the 2022 Building Energy Efficiency Standards, include requirements for photovoltaic systems and features such as insulation requirements to reduce electricity demand from the energy grid. No further action or reporting is required pursuant to this measure.)*	N/A	

Timing	Mitigation Measure		Responsible for Monitoring	Completion
N/A	**MM USS-20**	The City shall check architectural and mechanical plans to verify that the lowest energy rated mechanical and electrical equipment will be used. *(This mitigation measure is superseded by regulatory compliance. The Proposed Project would be subject to the Title 24 Building Energy Efficiency Standards, which apply to new construction and regulate energy consumed for heating, cooling, ventilation, water heating, and lighting, as further discussed below. Compliance with the most recent applicable Building Energy Efficiency Standards would ensure that the energy efficiency of the proposed buildings is maximized to the extent feasible. The most recent adopted standards, the 2022 Building Energy Efficiency Standards, include requirements for photovoltaic systems and features such as insulation requirements to reduce electricity demand from the energy grid. No further action or reporting is required pursuant to this measure.)*	N/A	
Natural Gas				
N/A	**MM USS-21**	Future developers shall coordinate with Southern California Gas Company to ensure that sufficient gas services are provided. Site plans building pad locations, etc. will be submitted to the Gas Company upon availability. *(This mitigation measure is considered already satisfied and no longer applicable because coordination with Southern California Gas Company (SCGC) is a standard requirement for all development projects. Developers are required to submit site plans, building pad locations, and load demands to SCGC during the entitlement and permitting process to ensure adequate electrical service. The City of Chino does not issue grading or building permits without verification that utility service will be available. Therefore, this measure does not provide additional mitigation beyond existing regulatory procedures and utility coordination requirements and is considered redundant under CEQA Guidelines §15126.4(a)(1)(B). No further action or monitoring is required pursuant to this measure.)*	N/A	
N/A	**MM USS-22**	Future developers shall pay all necessary hook-up fees and applicable tariffs prior to issuance of certificate of occupancy. *(This mitigation measure is considered already satisfied and no longer applicable because payment of all utility hook-up fees and applicable tariffs is required by utility service providers and enforced by the City of Chino as a condition of final occupancy. The City does not issue Certificates of Occupancy until it receives verification that all required connection and service fees have been paid. These requirements are established by the City's Municipal Code and utility agency regulations and are enforced through standard development review and permitting procedures. No further action or reporting is required pursuant to this measure.)*	N/A	