SECTION I. PROJECT INFORMATION

1. Project Title

Concordia University Campus Master Build-Out Plan Update and Zone Change to revise Special Development Requirements in Zoning Ordinance Section 9-21-7.B
File Nos.: Conditional Use Permit 00612052-PCPU and Zone Change 00629029-PZC

2. Lead Agency Name and Address

City of Irvine
Community Development Department
One Civic Center Plaza
Irvine, CA 92606
Attn: Melissa Chao, Senior Planner
(949) 724-6395
mchao@cityofirvine.org

3. Project Sponsor’s Name and Address

Concordia University Irvine
1530 Concordia West
Irvine, CA 92612-3203

Attn: Ronald A. Van Blarcom, General Counsel
Associate Vice President of University Services
(949) 214-3135
ron.vanblarcom@cui.edu

4. Project Location

The Concordia University Irvine main campus (also referred to herein as “the campus” or “the project site”), is located at 1530 Concordia West in the City of Irvine’s (City) Planning Area (PA) 21, Turtle Rock, in Orange County, California. The project site is generally located south of University Drive and Mason Regional Park, west of Ridgeline Drive, north of Turtle Rock Drive, and east of the Concordia West roadway. Refer to Exhibit 1, which depicts the regional location and local vicinity of the project.

5. General Plan Designations

Existing: 6.1 Institutional - Educational Facilities – This land use includes public and private schools and support facilities from kindergarten through
Regional and Local Vicinity

Exhibit 1

Concordia University Update to the Campus Master Build-Out Plan

Aerial Source: Google, April 2014
6. Zoning Designations

Existing: 6.1 Institutional – This category applies to land for public and quasi-public facilities such as churches, schools or utilities.

Proposed: No change to the existing 6.1 Institutional zoning designation is requested. However, as discussed below, revisions to the existing Special Development Requirements (SDRs) are proposed.

7. Description of Project

Please refer to the Project Description on page 6 of this Initial Study. In summary, the proposed project involves (1) a Major Modification to the existing Conditional Use Permit (CUP) for Concordia University Irvine to reflect the proposed Campus Master Build-Out Plan Update (refer to Exhibit 2); and (2) a Zone Change to revise SDRs identified in Section 9-21-7.B of the City of Irvine Zoning Ordinance. Many of these SDRs have already been met or are not applicable to the proposed project because they address development of the residential uses adjacent to the campus (Concordia East and Concordia West). Additionally, Concordia University may choose to pursue a Development Agreement with the City at the City’s discretion.

With respect to the changes in physical development at the Concordia University campus that would occur with implementation of the proposed Campus Master Build-Out Plan Update, of the 16 existing institutional (non-residential) buildings on campus (approximately 243,571 sf), 7 buildings would be demolished (approximately 71,231 sf). New construction (new buildings and additions to existing buildings) would involve up to 148,880 sf of institutional square footage. Therefore, should the Campus Master Build-Out Plan Update be fully implemented, there would be 321,220 sf of institutional buildings on campus, an increase of 77,649 sf compared to existing conditions. Additionally, the existing residence halls, which accommodate 256 units/1,024 beds, would be retained and new residence halls would be constructed (74 units/296 beds), resulting in a total of 330 units/1,320 beds.

In addition to institutional buildings and a residence hall, implementation of the Campus Master Build-Out Plan Update would allow for new, relocated, and/or improved athletic facilities; a lap/recreational pool with deck areas; vehicular, parking, and pedestrian access improvements; installation of utility infrastructure and landscaping; and implementation of required fuel modification zones (for fire protection purposes).

It should be noted that the proposed project would not increase the institutional (dormitory) dwelling units (330 dwelling units/1,320 beds) currently allowed on campus based on existing entitlements. Additionally, the total square footage of institutional (non-residential) building space would not increase above the total amount currently allowed to be built on campus based on current entitlements (321,220 sf). Therefore, the proposed project does not require a General Plan amendment because there is no proposed change in the land
Exhibit 2

Concordia University Update to the Master Build-Out Plan

Proposed Campus Master Build-Out Plan Update

Existing Campus and Buildings to be Demolished

Conceptual Site Plan
use designation or proposed change in the City of Irvine General Plan’s Land Use Element Table A-1, Maximum Intensity Standards by Planning Area.

8. **Surrounding Land Uses and Setting**

A description of surrounding land uses and the environmental setting of the project site is provided on page 5 of this Initial Study. The approximate 72.8-acre Concordia University main campus is currently developed with institutional buildings, residence halls, athletic facilities, parking lots, internal roads and pathways, and supporting infrastructure (refer to Exhibit 2). Access to the campus is provided via gated entry points along Concordia East/West, a two-lane private road, which is accessed from Ridgeline Drive to the east, and Turtle Rock Drive to the west. The Concordia West residential development is located to the west of the campus and the Concordia East residential development is located to the east. Mason Regional Park, which is owned and operated by OC Parks, is located directly to the north. The area to the south of the project site is known as French Hill and is a City designated open space area.

9. **Other Public Agencies Whose Approval is Required**

The following agencies may issue permits or other approvals associated with the project: U.S. Army Corps of Engineers, State Water Resources Control Board, Orange County Fire Authority, OC Parks, California Department of Fish and Wildlife, United States Fish and Wildlife Service, and Irvine Ranch Water District.

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**Purpose of the Initial Study**

Pursuant to the California Environmental Quality Act (CEQA, California Public Resources Code, Sections 21000, et seq.), the Guidelines for Implementation of CEQA (State CEQA Guidelines, California Code of Regulations, Title 14, Sections 15000 et seq.), and the City of Irvine’s CEQA Manual (Volumes 1 through 3, approved June 2012), this Initial Study has been prepared to determine whether the proposed Concordia University Campus Master Build-Out Plan Update project (proposed project) may have a significant effect on the environment, requiring preparation of an Environmental Impact Report (EIR).

The City of Irvine is the Lead Agency for the proposed project. Based on the results of the analysis presented in this Initial Study, the City of Irvine has determined that the proposed project has the potential to result in significant impacts and a Program EIR is the appropriate environmental document for the proposed Campus Master Build-Out Plan project, which would be implemented in phases over an approximately 15 to 20 year timeframe.

Section 15168(a) of the State CEQA Guidelines states that a Program EIR:

> . . . may be prepared on a series of actions that can be characterized as one large project and are related either: (1) Geographically, (2) As logical parts in the chain of contemplated actions, (3) In connection with issuance of rules, regulations, plans or other general criteria to govern the conduct of a continuing program, or

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(4) as individual activities carried out under the same authorizing statutory or regulatory authority and having generally similar environmental effects which can be mitigated in similar ways.

However, it should be noted that Phase 1 of the proposed campus development, which is further described below, is expected to be initiated following approval of the proposed project and will be evaluated at a project-level in the EIR.

**Project Background and Need for the Project**

Concordia University Irvine is a member of the Concordia University System (CUS) which is comprised of ten colleges and universities affiliated with The Lutheran Church-Missouri Synod (LCMS). In the mid-1950s and early 1960s, a small group of Southern California Lutherans began to plan for a Lutheran college to serve the people of this area. An extensive search of potential sites led to the City of Irvine. As the City was incorporating in December 1971, the articles of incorporation for Concordia University (originally Christ College Irvine) were being drafted. Christ College was incorporated in May 1972. Construction of the campus began in 1975, and in 1976 classes were held for the first time on the project site.

The existing Campus Master Build-Out Plan is the product of the following City approvals. As previously identified, these City approvals allow for development of 321,220 square feet of institutional use and 330 institutional dwelling units (with 4 beds per unit) on campus.

- General Plan Amendment 4237-GA (approved April 14, 1992 via City Council Resolution No. 92-56)
- Zone Change 5232-ZC (approved April 28, 1992 via City Council Ordinance No. 92-04)
- Conditional Use Permit 12273-CPU\(^2\) (approved August 5, 1993 via Planning Commission Resolution No. 93-1733)
- Minor Modification 23264-CPM (approved March 12, 1996)
- Minor Modification 26040-CPM (approved January 31, 1997)
- Modification 36598-CPM (approved December 8, 1999 via Zoning Administrator Resolution No. 99-511)
- Minor Modification 43809-CPM (approved June 28, 2000)
- Minor Modification 50287-CPM (approved October 22, 2001)
- Major Modification 00366703-PCPM (approved April 7, 2005 via Planning Commission Resolution No. 05-2561)

It is important to note that the 1992 General Plan Amendment and Zone Change were necessary to reclassify the land use from institutional to residential for two vacant parcels of land that were previously part of the Concordia University campus. Those two parcels were developed into residential communities known as Concordia East (formerly Hillcrest Vista) and Concordia West (formerly Chapel Hill Vista). These two residential communities are adjacent to the Concordia University campus, but they are not a part of the current development applications. The campus site has long been designated by the General Plan for use as a private university and is within the 6.1 Institutional zoning district in PA 21.

\(^2\) The existing Campus Master Build-Out Plan of 310,980 SF and 330 dorm units was approved with Conditional Use Permit 12273-CPU and subsequently approved modifications. 43809-CPM increased overall campus square footage by 10,240 SF to 321,220 SF (and 330 dorm units).
While Concordia University has steadily increased the number of students that it serves, less than half of Concordia's current students (approximately 45 percent in Fall 2014) are traditional undergraduate students that receive their education at the main campus. Concordia has invested in ways to provide a high-quality Christian university education directly to the majority of its students (primarily graduate and adult education students) without bringing them to the main campus. This is accomplished by (1) enrolling students at one of the off-campus regional centers in California or (2) educating them using online graduate or adult degree programs. In addition, many traditional undergraduate students have the opportunity to participate in one of the global educational programs around the world that are offered by Concordia University.

While some graduate and adult education students are served at the main campus, it is anticipated that, in the future, the on-campus student growth will primarily be in the traditional undergraduate program and that this growth would likely consist of full-time undergraduate students who live in on-campus residence halls. Consequently, campus venues must be constructed or remodeled as necessary to meet traditional undergraduate student needs. Even now, current undergraduate students who choose to be served at the main campus site are requesting more than traditional classrooms and standard residential dorms to fulfill their higher education experience.

Although there is remaining square footage to be built out under the existing Campus Master Build-Out Plan (77,649 sf), due to changes in the future of higher education and the need to replace aging infrastructure on the campus, Concordia University has determined it is the appropriate time to take a holistic view of the entire campus and to comprehensively update the entire Campus Master Build-Out Plan. The proposed Campus Master Build-Out Plan Update includes the types of new and improved venues that are necessary to meet the educational and extra-curricular expectations of the future students who will be served on the main campus. The focus of the proposed project is to improve classrooms and venues for disciplines that require the highest degree of hands-on learning space and collaboration space—primarily science, visual arts and performing arts. Additionally, the proposed project involves the provision of new, relocated and/or improved athletic facilities to better serve Concordia's championship-winning sports teams and the hundreds of student athletes that live on campus.

It is also important to note that, between 1976 and 1989, 13 buildings were constructed on campus and currently remain onsite. The four original buildings were constructed prior to 1982, before the Americans with Disabilities Act of 1990 (ADA) was adopted. In addition, the footprints of two of these original buildings are located in the required fuel modification zone based on current Orange County Fire Authority (OCFA) standards. Consequently, it is more feasible to remove these structures than it is to upgrade or modernize them.

Concordia did not historically maintain a comprehensive campus traffic management program, which has led to inefficiencies related to parking and traffic in the past. While a comprehensive traffic management program was implemented February 2015, physical transportation improvements, additional parking and a commitment to continued traffic management have all been made part of the project to address parking and traffic issues.

**Project Location and Environmental Setting**

As previously identified, the proposed project is located on the Concordia University campus in PA 21 (Turtle Rock) in the City of Irvine. As shown on Exhibit 1, Concordia University is bound by the Concordia East roadway and Mason Regional Park to the north, the Concordia West roadway to the west, and preserved open space (French Hill) to the south. The 69-unit Concordia West
single-family residential development is located to the west of the project site and the 82-unit Concordia East single-family residential development is located to the east.

Local access to the project site is provided from Ridgeline Drive (via University Drive) to the north and Turtle Rock Drive (via Campus Drive) to the west. There are manned gatehouses at each point of entry. The primary route of travel within the campus is Concordia East/West, a two-lane roadway. A network of internal roads and pathways provides access to various campus facilities. A pedestrian/bike trail that links the Turtle Rock Vistas development (to the west) through the campus connecting to Ridgeline is provided and would be realigned where necessary as part of this campus build-out plan.

The campus is currently developed with various uses as allowed by the existing Campus Master Build-Out Plan approved by the City of Irvine as part of original Conditional Use Permit 12273-CPM in 1993 and subsequently approved modifications. Existing on-campus development includes, but is not limited to, 16 institutional buildings (approximately 243,571 sf); 4 residence halls that accommodate 256 units (1,024 beds); outdoor athletic facilities (including 4 tennis courts, a softball field, a baseball field, a practice field, an outdoor basketball court, and a track/soccer field); surface parking lots that accommodate approximately 1,219 parking spaces (automobile and motorcycle), and internal walkways and roads. Some of the athletic fields are currently used during evening hours with the use of portable lighting systems.

In accordance with the Special Development Requirements found in Section 9-21-7.B of the City’s Zoning Ordinance, Concordia entered into a Joint Use Agreement with the City in 1993 granting the City regularly scheduled use of certain athletic facilities. The Joint Use Agreement was amended in 1996 and it remains in effect. It should be noted that while the Joint Use Agreement allows various athletic facilities to be used, the only facility currently being used under this agreement is the gymnasium.

The project site is located in the City-designated San Joaquin Hills Hillside Overlay District. The elevations across the project site range from approximately 221 feet above mean sea level (msl) in the north to approximately 170 feet above msl in the south. The project site is not within a 100-year floodplain and groundwater is expected to be 30 feet or deeper. Runoff from the project site drains to storm drains in the Concordia East and Concordia West roadways in the northeast and southwest portions of the campus. There is existing utility infrastructure located throughout the campus to serve existing uses.

The project site is within the Central Subregion of the Orange County Central/Coastal Natural Community Conservation Plan/Habitat Conservation Plan (NCCP/HCP); however, the site is located in a development area and not within a Habitat Reserve (Reserve) area (further discussed under Section IV, Biological Resources, of the Initial Study). Developed areas dominate the project site. Vegetation types currently present on campus include annual grassland, coastal sage scrub, disturbed coastal sage scrub/annual grassland, southern willow scrub, ornamental, and ornamental/developed, as shown on Exhibit 3. Coastal sage scrub and southern willow scrub are considered special status vegetation types because of their limited distribution in Southern California and their potential to support special status plant and wildlife species. There are two drainage features under the jurisdiction of the U.S. Army Corps of Engineers (USACE), California Department of Fish and Wildlife (CDFW), and/or Regional Water Quality Control Board (RWQCB) in the northern portion of the campus (north of the Concordia East roadway). One area is located adjacent to and north of the Concordia East roadway and runs from Dorm Road to Ridgeline Drive, flowing off the campus into Sand Canyon Wash. The second area occurs west of the parking lot in the northeastern portion of the campus. It begins as a concrete v-ditch draining the
Existing Vegetation Types
Concordia University Update to the Master Build-Out Plan

- Annual Grassland
- Coastal Sage Scrub
- Disturbed Coastal Sage Scrub/Annual Grassland
- Southern Willow Scrub
- Ornamental
- Ornamental/Developed

Aerial Source: Google, April 2014
parking lots then spreads into a swale before becoming incised and emptying into Sand Canyon Wash (refer to Exhibit 3).

**Project Description**

The proposed Campus Master Build-Out Plan Update project involves a Major Modification to the existing Conditional Use Permit for Concordia University Irvine, and a Zone Change to revise Special Development Requirements identified in Section 9-21-7.B of the City of Irvine Zoning Ordinance. The total square footage of institutional (non-residential) buildings (321,220 sf in accordance with 43809-CPM) and the total number of institutional dwelling units (330 dorm units – 1,320 beds in accordance with original 12273-CPU) would not change. These key project actions are further described below.

**Major Modification to Conditional Use Permit/Campus Master Build-Out Plan Update**

Conditional Use Permit (CUP) 12273-CPU and subsequently approved modifications would be modified to reflect the proposed Campus Master Build-Out Plan Update. The existing campus and proposed Campus Master Build-Out Plan are provided on Exhibit 2. As shown, the proposed Campus Master Build-Out Plan Update would include additions, deletions/demolition, and/or relocations of structures and facilities, as further described below. It should be noted that, pursuant to Section 2-17-2.A.3 of the City’s Zoning Ordinance, a Master Plan is required for all developments in the Hillside Overlay District. However, when both a Master Plan and a CUP are required, the submittal of a Master Plan may be waived, provided the CUP includes the required information. Consistent with the existing entitlements for the campus, the proposed CUP includes all the required Master Plan information and addresses all issues associated with a Master Plan application.

The current Campus Master Build-Out Plan allows for development of up to 321,220 square feet (sf) of institutional square footage, 330 institutional dwelling units, various athletic facilities, and a lap/recreational pool with deck. With implementation of the Campus Master Build-Out Plan Update, 7 existing institutional buildings (approximately 71,231 sf of the existing 243,571 sf of institutional square footage on campus) would be demolished and new buildings and additions totaling 148,880 sf of institutional square footage would be constructed (refer to Table 1).
TABLE 1
CAMPUS MASTER BUILD-OUT PLAN PROJECT
STATISTICAL SUMMARY

<table>
<thead>
<tr>
<th></th>
<th>Institutional Buildings</th>
<th>Residential Units/Beds</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Existing Condition</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approved Campus Master Build-Out Plan Entitlement</td>
<td>321,220 sf</td>
<td>330 units/1,320 beds</td>
</tr>
<tr>
<td>Existing Development on Campus</td>
<td>243,571 sf</td>
<td>256 units/1,024 beds</td>
</tr>
<tr>
<td><strong>Proposed Project</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Demolition of Existing Buildings</td>
<td>71,231 sf</td>
<td>0</td>
</tr>
<tr>
<td>Total New Construction&lt;sup&gt;a&lt;/sup&gt;</td>
<td>148,880 sf</td>
<td>74 units/296 beds</td>
</tr>
<tr>
<td>Proposed Campus Master Build-Out Plan Update Entitlement</td>
<td>321,220 sf</td>
<td>330 units/1,320 beds</td>
</tr>
<tr>
<td><strong>Net Change from Existing Conditions – Basis for Impact Analysis</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Development&lt;sup&gt;b&lt;/sup&gt;</td>
<td>77,649 sf</td>
<td>74 units/296 beds</td>
</tr>
</tbody>
</table>

<sup>a</sup> This represents the amount of development that can occur with the proposed project taking into consideration: (1) existing development on campus, (2) buildings to be demolished, and (3) the approved Campus Build-Out Plan entitlement, which is not being changed.

<sup>b</sup> This represents the change from Existing Condition to full buildout of the proposed Campus Master Build-Out Plan Update.

Therefore, should the Campus Master Build-Out Plan Update be fully implemented, there would be 321,220 sf of institutional buildings, an increase of 77,649 sf compared to existing conditions. The existing residence halls—which accommodate 256 units/1,024 beds—would be retained, and new residence halls would be constructed (74 units/296 beds), resulting in a total of 330 units (1,320 beds), consistent with the existing entitlement. The proposed project does not include the 5,000 sf early childcare center that was previously proposed and approved as part of the original 1993 CUP plans and subsequently approved modifications.

The proposed project includes a group of small astronomy buildings, and a new building with science classrooms and modern labs for the nursing, biology, chemistry, physics and medical science programs. Classrooms and venues to serve the graphic design, church music, music education, and theatre majors would be provided, including a proposed Arts Alumni and Advancement Building with an approximately 400 seat theater. An addition to the central worship facility (the CU Center) would increase its seating capacity from 517 to approximately 812 seats, and the Grimm Student Union are proposed and various upgrades to “outdoor space” would be implemented, including a lap/recreational pool and deck.

Existing outdoor athletic facilities would be relocated, removed or improved, and new outdoor athletic facilities are proposed as shown on Exhibit 2. Uncovered athletic bleacher seating with a 300 person maximum seating capacity for the existing track and soccer field, and new restrooms and locker rooms for athletics would also be added. The existing tennis courts would be relocated to the southwest parking lot, and would be constructed on a deck structure over the parking lot. Permanent lighting for the athletic fields may be provided.

The proposed project would increase available parking by approximately 218 new parking spaces. This would be accomplished through the construction of new parking along Concordia East (roadway), an expansion of the southwest parking lot, and reconfiguration of existing parking.
areas. The proposed circulation and parking plan also includes a traffic management system to better accommodate campus events. On-site vehicular circulation and access improvements would be implemented including, but not limited to, restriping of Concordia East from Dorm Road to the east gatehouse, and a modification of the intersection of Dorm Road with Concordia East to align with the driveway for Parking Lot E, which will require a minor realignment of Dorm Road near the intersection. Additionally, the driveway access for the District Office would be moved from Concordia East to Dorm Road. Utility infrastructure (e.g., water, wastewater, drainage, electricity, and natural gas) would be provided, as necessary, to serve the proposed uses, and would connect to existing roadways and public backbone utility infrastructure (water, wastewater, drainage, electricity, and natural gas) that have already been constructed within and adjacent to the project site. Structural and non-structural water quality best management practices (BMPs) would be implemented in compliance with applicable regulations. Landscaping would be provided throughout the campus, and applicable Orange County Fire Authority (OCFA) fuel modification requirements would be met. Construction activities to implement the proposed project would involve grading and excavation; however, earthwork is expected to be balanced at the project site and there would be little to no import or export of soil.

It is important to note that the proposed Major Modification to the CUP/Campus Master Build-Out Plan Update do not represent an enrollment plan or an implementation plan. Rather, they identify the framework for the uses of land on campus necessary to accommodate an identified level of enrollment and physical development. Enrollment decisions and the implementation of specific capital projects are guided by other University planning metrics and are influenced by multiple factors, including funding decisions, demographics, and other factors external to the CUP and Master Build-Out Plan Process. Thus, the proposed Campus Master Build-Out Plan Update identifies the physical resources required to achieve Concordia University’s academic and related goals, but makes no assumptions or commitments regarding the phasing of enrollment levels or physical development. Assumptions regarding the potential phasing of the proposed physical development will be included in the Draft EIR for analysis purposes.

In general, it is expected that the proposed project would be constructed in up to four phases over an approximately 15 to 20 year timeframe. The potential environmental impacts resulting from the changes between the existing and proposed future conditions with implementation of the proposed project will be evaluated in the Draft EIR. Phase 1 project components would be initiated following project approval and the subsequent issuance of required permits, with construction of Phase 1 anticipated to be completed in approximately 2.5 years. Key elements of the Campus Master Build-Out Plan Update to be implemented as part of Phase 1 are generally depicted in Exhibit 4 and would include the new Astronomy buildings; parking lot improvements; internal roadway improvements, including realignment of Dorm Road; the Music, Worship and Theology building; installation of 2 sand volleyball courts; and pedestrian/bike path realignment to continue to provide a continuous alignment through campus during all phases of development and construction. Phases 2 through Phase 4 would occur subsequent to Phase 1.

**Zone Change**

A Zone Change is being requested to revise Section 9-21-7.B of the City of Irvine Zoning Ordinance, Special Development Requirements for Concordia University (Christ College Irvine) General Plan Amendment 4237-GA and Zone Change 5232-ZC. Special Development Requirements that have already been met and requirements that are not applicable to the proposed project because they address development of the residential uses adjacent to the campus (Concordia East and Concordia West) will be omitted or revised accordingly. Parameters in some Special Development Requirements will be updated to reflect new data from the project’s
traffic and technical studies. For instance, it is anticipated that the average daily trip of 3,500 maximum indicated in Special Development Requirement No. 10 will be revised. However, no change to the existing zoning district designation of 6.1 Institutional is requested. Additionally, the proposed CUP and Campus Master Build-Out Plan Update would comply with the requirements of Chapter 5-4 of the City's Zoning Ordinance, Hillside Overlay District.

It should also be noted that a Development Agreement may be entered into between the City of Irvine and Concordia University Irvine. If pursued, the Development Agreement would not include any provisions that would result in new development or potential physical impacts beyond those associated with the development under the proposed CUP/Campus Master Build-Out Plan.

Ministerial permits or approvals (e.g., grading permits, building permits, and street work permits) would be issued by the City or other appropriate agencies in order to allow site preparation, street work permits, and construction of the proposed project and connections to off-site utility infrastructure.
SECTION II. ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a “Potentially Significant Impact” as indicated by the checklist on the following pages:

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

DETERMINATION

On the basis of this initial study and environmental 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  Date

City of Irvine  For

Title

9/8/15
**Evaluation of Environmental Impacts**

1) A brief explanation is required for all answers except “No Impact” answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A “No Impact” answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A “No Impact” answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).

2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.

3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. “Potentially Significant Impact” is appropriate if there is substantial evidence that an effect may be significant. If there are one or more “Potentially Significant Impact” entries when the determination is made, an EIR is required.

4) “Negative Declaration: Less Than Significant With Mitigation Incorporated” applies where the incorporation of mitigation measures has reduced an effect from “Potentially Significant Impact” to a “Less Than Significant Impact.” The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from Section XVII, “Earlier Analyses,” may be cross-referenced).

5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an affect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:

   a) **Earlier Analysis Used.** Identify and state where they are available for review.

   b) **Impacts Adequately Addressed.** Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.

   c) **Mitigation Measures.** For effects that are “Less than Significant with Mitigation Measures Incorporated,” describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.

6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.

7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.

8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project’s environmental effects in whatever format is selected.

9) The explanation of each issue should identify:

   a) The significance criteria or threshold, if any, used to evaluate each question; and

   b) The mitigation measure identified, if any, to reduce the impact to less than significance.
I. **AESTHETICS**

Would the project:

<table>
<thead>
<tr>
<th>a) Have a substantial adverse effect on a scenic vista?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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<tbody>
<tr>
<td>x</td>
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(Source: 1)

The *City of Irvine General Plan’s* Land Use Element identifies “major views” on Figure A-4, Scenic Highways. There are two major views on University Drive: (1) looking east at the University Drive/Ridgeline Drive intersection and (2) looking south at the University Drive/Culver Drive intersection. There are no major views identified on Figure A-4 that would include views of the project site. No impact would result and no further evaluation of this issue is required in the Draft EIR.

<table>
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<tr>
<th>b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway?</th>
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(Sources: 1, 2, 3)

According to the California Department of Transportation’s California Scenic Highway Mapping System, the project site is not located within or near a State scenic highway. Figure A-4, Scenic Highways, of *City of Irvine General Plan’s* Land Use Element identifies Interstate (I) 405 as a scenic highway with urban character; I-405 is approximately 0.7 mile north of the project site. Due to intervening topography, development, and vegetation, the project site is not visible from I-405. Therefore, the proposed project would not damage scenic resources within a State scenic Highway.

It should also be noted that Figure A-4 of the Land Use Element identifies University Drive, north of the project site, as a scenic highway with rural or natural character. The project site can be partially viewed in the distance by motorists traveling on University Drive between Yale Avenue and Ridgeline Drive; however, views are largely obstructed because of the increase in elevation of the project site compared to University Drive, distance, and the dense vegetation and trees in the viewshed. Although the uses that would be allowed with implementation of the proposed Master Build-Out Plan Update are consistent with the existing uses at Concordia University and there are only obstructed distant views of the project site, the Draft EIR will evaluate the proposed project’s potential to impact views from University Drive.

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<th>c) Substantially degrade the existing visual character or quality of the site and its surroundings?</th>
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Implementation of the proposed Master Build-Out Plan Update would involve the demolition of older institutional buildings to accommodate the construction of new buildings; additions to existing buildings; and relocation, improvements to and/or construction of athletic and recreational facilities. The Draft EIR will evaluate the proposed project’s potential to substantially degrade the visual character or quality of the site and its surroundings, which is considered a potentially significant impact.
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?  

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(Sources: 3, 4)

Existing ambient lighting within and surrounding the project site primarily occurs from on-site security lighting for buildings, walkways, bikeways, and parking lots; portable sports field lights; adjacent residential land uses east and west of the project site; and light standards along on-site and off-site streets. The proposed project would involve the introduction of new light sources on the project site associated with proposed new, expanded, and relocated uses (e.g., buildings, pathways, parking lots, bikeways). Should future proposed athletic or recreational facilities include permanent lighting, potential light and glare effects from these facilities will also be evaluated in the Draft EIR. Consistent with the requirements of the City’s Zoning Ordinance (Chapter 3-16-1, Lighting), outdoor lighting would be designed and installed so that all direct rays are confined to the site and so that adjacent properties are protected from light spillover. Additionally, it is not anticipated that proposed building materials would result in daytime glare. Although it is anticipated that light and glare impacts would be reduced through implementation of standard directional nighttime lighting and use of non-reflective building materials, this issue will be evaluated in the Draft EIR.

II. AGRICULTURE & FORESTRY RESOURCES

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 Department 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; the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board.

Would the project:

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?  

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(Source: 5)

Based on current farmland mapping (2010) published by the California Department of Conservation, the project site is designated in the Farmland Mapping and Monitoring Program (FMMP) as “Urban and Built-Up Land”, as are the residential areas to the east and west. Mason Regional Park to the north and the preserved open space to the south are designated as “Other Land”. No portion of the project site or surrounding area is located on land designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. Therefore, no impact would result with implementation of the proposed project and no further evaluation of this issue is required in the Draft EIR.

b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?  

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(Sources: 1, 6, 7)

The City of Irvine General Plan’s Land Use Element designates the project site as “Institutional - Educational”, and the site is zoned 6.1 Institutional per the Irvine Zoning Code. Neither the land use designation nor zoning of the project site support agricultural activity. Additionally, the City of Irvine General Plan’s Conservation and Open Space Element (Figure
L-2, Conservation and Open Space) does not identify the project site as an area of agricultural production. No portion of the project site is covered by a Williamson Act Contract. Therefore, implementation of the proposed project would not conflict with a Williamson Act Contract or with existing zoning for agricultural use. No further evaluation of this issue is required in the Draft EIR.

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))?

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(Sources: 1, 7)

The City of Irvine General Plan’s Land Use Element designates the project site as Educational and the site is zoned 6.1 Institutional per the Irvine Zoning Code. There are no areas zoned for forest land or timber land within the City and no such resources exist in the City. Therefore, implementation of the proposed project would not conflict with existing zoning, nor would it cause rezoning of forest land, timberland, or timberland zoned Timberland Production. No further evaluation of this issue is required in the Draft EIR.

d) Result in the loss of forest land or conversion of forest land to non-forest use?

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(Sources: 3, 8)

As previously noted, the project site is the Concordia University Irvine campus, which is largely developed with existing buildings, athletic fields, and parking areas, and includes ornamental landscaping. The northeast portion of the project site, adjacent to a surface parking lot, is undeveloped and includes riparian, coastal sage scrub and ruderal habitat. The southern portion of the project site is also undeveloped and includes mostly ruderal habitat. There are no forest lands on the project site or in the surrounding area. Therefore, development of the project site, as proposed by the Update to the Campus Master Build-Out Plan, would not result in a loss or conversion of forest land to non-forest use. No further evaluation of this issue is required in the Draft EIR.

e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to nonagricultural use or conversion of forest land to non-forest use?

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(Sources: 1, 3, 5, 6, 7)

As discussed under Thresholds “a” through “d” above, the project site and surrounding areas do not support agricultural or forest lands. The proposed project would not result in the conversion of farmland to nonagricultural use or conversion of forestland to non-forest use. No further evaluation of this issue is required in the Draft EIR.
### III. AIR QUALITY

Would the project:

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<th>Conflict with or obstruct implementation of the applicable air quality plan?</th>
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Air quality in Orange County is regulated by the South Coast Air Quality Management District (SCAQMD), which is the agency principally responsible for comprehensive air pollution control in the South Coast Air Basin (SoCAB). The SCAQMD develops rules and regulations; establishes permitting requirements for stationary sources; inspects emissions sources; and enforces such measures through educational programs or fines, when necessary. The SCAQMD is directly responsible for reducing emissions from stationary (area and point), mobile, and indirect sources. It has responded to this requirement by preparing a sequence of Air Quality Management Plans (AQMPs).

The two principal criteria for conformance to an AQMP are (1) whether the project would result in an increase in the frequency or severity of existing air quality violations, cause or contribute to new violations, or delay timely attainment of air quality standards and (2) whether the project would exceed the assumptions in the AQMP. The project’s consistency with the SCAQMD AQMP will be evaluated in the Draft EIR.

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<th>Potentially Significant Impact</th>
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During the construction period, air pollutants would be emitted by off-road and on-road construction equipment and worker vehicles, and fugitive dust would be generated during earth moving and grading on site. During operation, air pollutants would be emitted by area (e.g., consumer products, landscape maintenance, and natural gas use) and mobile (e.g., cars) sources. The potential for the project to violate any air quality standards or contribute substantially to an existing or projected air quality violation is a potentially significant impact and will be evaluated in the Draft EIR.

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<th>Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?</th>
<th>Potentially Significant Impact</th>
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(Source: 9)

As stated previously, for this project, air pollutants would be emitted during construction and operation. The SoCAB is currently a nonattainment area for ozone (O₃), respirable particulate matter with a diameter of 10 microns or less (PM10), fine particulate matter with a diameter of 2.5 microns or less (PM2.5), and lead (Los Angeles County only). Therefore, potentially significant impacts related to cumulative regional emissions of volatile organic compounds (VOCs) and nitrogen oxides (NOₓ), which are O₃ precursors, as well as PM10 and PM2.5 during construction and operation will be evaluated in the Draft EIR.
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<th>d) Expose sensitive receptors to substantial pollutant concentrations?</th>
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(Source: 10)

Some members of the population are especially sensitive to air pollutant emissions and should be given special consideration when evaluating air quality impacts from projects. These people include children, the elderly, persons with pre-existing respiratory or cardiovascular illness, and athletes and others who engage in frequent exercise. The SCAQMD defines structures that house these persons or places where they gather (i.e., residences, schools, playgrounds, child-care centers, convalescent centers, retirement homes, and athletic fields) as sensitive receptors. On-site sensitive receptors primarily include residential buildings and athletic fields. The nearest off-site sensitive receptors include the residential uses located to the east and west of the project site (Concordia East and Concordia West). The Turtle Rock Preschool is located southwest of the project at the intersection of the Concordia West roadway with Turtle Rock Drive. Construction emissions to sensitive receptors, exposure of sensitive receptors to carbon monoxide (CO) hotspots, and exposure of sensitive receptors to toxic air contaminants (during construction and operation) are potentially significant impacts and will be evaluated in the Draft EIR.

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<th>e) Create objectionable odor affecting a substantial number of people?</th>
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(Source: 10)

Potential construction odors include the on-site construction equipment’s diesel exhaust and roofing, painting, and paving operations. There would be situations where construction activity odors would be noticed by the existing population in the immediate vicinity. These temporary odors are typical of urbanized environments and would not be objectionable. Additionally, these odors would dissipate rapidly from the source with an increase in distance and would be subject to construction and air quality regulations (including proper maintenance of machinery) in order to minimize engine emissions. As such, there would be a less than significant impact from construction activities.

As identified in the SCAQMD’s 1993 CEQA Air Quality Handbook, land uses associated with odor complaints typically include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding. None of these uses exist on campus and the proposed project would not include any SCAQMD-identified uses that are associated with odors. The proposed project also would not create any uses that are different than uses that exist, so no new odor sources would be created. Existing and potential odors, if any, associated with on campus operations, including instructional laboratory facilities, are localized and do not permeate to off-campus locations. The proposed project would have a less than significant impact related to objectionable odors and no mitigation is required. No further evaluation of this issue is required in the Draft EIR.
### IV. BIOLOGICAL RESOURCES

Would the project:

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<th>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?</th>
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(Source: 8)

Developed and/or disturbed areas dominate the project site; however, vegetation types currently present on campus include annual grassland, coastal sage scrub, disturbed coastal sage scrub/annual grassland, southern willow scrub, ornamental, and ornamental/developed (refer to Exhibit 3). The majority of the coastal sage scrub vegetation is present in the northern portion of the project site; however, there is a small amount of disturbed coastal sage scrub located in the southern portion of the site as well. Southern willow scrub vegetation occurs in the northeastern portion of the project site. Coastal sage scrub and southern willow scrub are considered special status vegetation types because of their limited distribution in Southern California and their potential to support special status plant and wildlife species. Two wildlife species that are federally or State-listed as Threatened and/or Endangered have potential to occur on the project site: least Bell’s vireo (*Vireo bellii pusillus*) and coastal California gnatcatcher (*Polioptila californica californica*). Suitable habitat for the least Bell’s vireo is present in the southern willow scrub vegetation, and suitable habitat for the coastal California gnatcatcher is present in the coastal sage scrub vegetation. Additionally, the ruderal, riparian, and coastal sage scrub vegetation have the potential to support sensitive plant species. The impacts to candidate, sensitive, or special status plant and wildlife species are potentially significant and will be evaluated in the Draft EIR.

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<th>Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Game or U. S. Fish and Wildlife Service?</th>
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(Source: 8)

Concordia University is primarily developed and/or disturbed; however, as identified above, coastal sage scrub and southern willow scrub habitat are present on campus. Impacts to these habitat types are potentially significant and will be evaluated in the Draft EIR.

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<th>Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?</th>
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(Source: 8)

As shown on Exhibit 3, the project site contains two existing drainages with areas under the jurisdiction of the California Department of Fish and Wildlife (CDFW), United States Army Corps of Engineers (USACE), and/or Regional Water Quality Control Board (RWQCB) east and west of the parking lot in the northeastern portion of the project site. The Draft EIR will evaluate the potential for impacts to jurisdictional areas as defined by Section 404 of the Clean Water Act, which would be considered potentially significant.
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 site?

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(Sources: 3, 6, 11)

The project site is bound by Mason Regional Park to the north and preserved open space (French Hill) to the south. Residential development is located to the east and west. As discussed further under Threshold “f” below, the project site is within the Coastal Subregion of the Natural Community Conservation Plan (NCCP)/Habitat Conservation Plan (HCP); however, the site is not located within a Reserve area or Special Linkage area. The area east of Ridgeline Drive is designated as a Special Linkage Area; however, implementation of proposed project, which involves the existing Concordia University would not directly impact Mason Regional Park or the nearby Special Linkage area; therefore, it would not directly impede wildlife movement.

The Migratory Bird Treaty Act (MBTA) protects the taking of migratory birds and their nests and eggs. Bird species protected under the provisions of the MBTA are identified by the List of Migratory Birds (Title 50 Code of Federal Regulations Section10.13, as amended). Impacts to migratory birds and nesting raptors resulting from the proposed project are potentially significant and will be evaluated in the Draft EIR.

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinances?

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(Sources: 6, 11, 12, 13)

Portions of the City are subject to a phased Dedication and Compensation Development Opportunities Program (Dedication/Development Program) that was established as a result of the adoption of Initiative Resolution 88-1, entitled “An Initiative Resolution of the City of Irvine Directing the Amendment of the Conservation and Open Space Element and the Land Use Element of the Irvine General Plan” (Open Space Initiative). This program provides for permanent protection of conservation and open space areas through public ownership. The areas of the City that are directly affected by the Dedication/Development Program were divided into lettered “Implementation Districts” (IDs) containing both designated open space dedication areas and corresponding development areas. Figure L-3, Implementation Districts, of the Conservation and Open Space Element, identifies that the project site is not located in a designated Preservation Area and that it is within a Development Area.

In addition, Exhibit L-2, Conservation and Open Space, of the Conservation and Open Space Element identifies that the project site is not within a conservation or open space area, but is surrounded by designated “Recreation” areas. Exhibit L-4, Biotic Resources, in the Conservation and Open Space Element does not identify the project site as containing any biotic resources. However, as described in Threshold “f” below, a Special Linkage area is located to the east across Ridgeline Avenue. The proposed project would not conflict with any local policies or ordinances protecting biological resources and no further evaluation of this issue is required in the Draft EIR.
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?

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(Source: 11, 13)

In 1996, the U.S. Fish and Wildlife Service (USFWS) and the California Department of Fish and Game (CDFG) approved the Orange County Central/Coastal Subregion NCCP/HCP. This subregion is bound by State Route (SR) 55 and SR-91 to the north; the Orange County boundary to the east; El Toro Road and I-5 to the south; and the Pacific coast to the west. The Central/Coastal NCCP/HCP addresses protection and management of coastal sage scrub habitat; coastal sage scrub-obligate species; and other covered habitats and species. It mitigates anticipated impacts to those habitats and species on a programmatic, subregional level rather than on a project-by-project, single species basis.

As part of the NCCP/HCP, a Reserve in excess of 37,000 acres was established for the protection of coastal sage scrub, other upland habitats, the coastal California gnatcatcher, and other primarily coastal sage scrub-dependent species identified in the NCCP/HCP. Specifically, the NCCP/HCP, the USFWS, and California Department of Fish and Wildlife (CDFW) authorize “take” of 39 “Target” and “Identified” species of plants and animals (including “covered” and “conditionally covered” species). Thus, the NCCP/HCP provides for the protection and management of a broad range of plant and animal populations, while providing certainty to the public and affected landowners with respect to the location of future development and open space in the subregion.

The NCCP/HCP was analyzed in a joint EIR/Environmental Impact Statement (EIS) (SCH No. 93071061) prepared under the auspices of the County of Orange and the USFWS as lead agencies, while the CDFG and the City were responsible agencies. Following certification of the EIR/EIS and approval of the NCCP/HCP in 1996, the participating agencies (including the City), landowners, the USFWS, the CDFG, and the County of Orange signed an Implementation Agreement (IA). The IA sets forth (1) the implementation requirements for the NCCP/HCP, including requirements related to dedication, creation, and adaptive management of the Reserve; (2) interim management of the Reserve; (3) funding for Reserve management; and (4) procedures and minimization measures related to “take” of “Identified Species” and modification of habitat in those areas designated for development under the NCCP/HCP.

The project site is within the planning area covered by the NCCP/HCP. The NCCP/HCP identifies that the project site is in a development area and not in a Reserve area. However, the project site is located adjacent to Mason Regional Park, which is designated as “Non-Reserve Open Space”, and the project site is also adjacent to designated Existing Use areas, including French Hill. The Strawberry Farms Golf Course located east of Ridgeline Drive is designated a “Special Linkage” area. The City is a participant in the NCCP/HCP and the IA, and the proposed project would be implemented in compliance with all applicable NCCP/HCP and associated IA requirements, including completion of required surveys for sensitive species. The proposed project would not conflict with the provisions of the NCCP/HCP. However, due to the presence of sensitive biological resources in and adjacent to the project site, this issue will be will be further evaluated in the Draft EIR.

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3 The California Department of Fish and Game (CDFG) changed its name to the California Department of Fish and Wildlife (CDFW) effective January 1, 2013. Please note that references to previous publications use the name under which the document was published (i.e., CDFG), while discussions relating to the agency refer to the current name (i.e., CDFW).
V. CULTURAL RESOURCES

Would the project:

<table>
<thead>
<tr>
<th>a) Cause a substantial adverse change in the significance of a historical resource as defined in § 15064.5?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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(Source: 14)

Figure E-1, Historical/Archaeological Landmarks of the City of Irvine General Plan’s Cultural Resources Element does not identify any historical or archaeological landmarks on the project site; however, French Hill south of the project site is identified on Figure E-1. The first building at Concordia University (the Administration Building) was constructed in 1976 and there are no buildings of historic significance on the project site. However, a cultural resources records search of the project site, including a one-mile radius buffer, in the California Historical Resources Information System (CHRIS) at the South Central Coastal Information Center (SCCIC) at California State University, Fullerton will be conducted to determine the location and nature of previously recorded historic resources known to exist within or immediately adjacent to the project site. Potential impacts to any off-site historical resources, which would be considered potentially significant, will be evaluated in the Draft EIR.

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

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<tr>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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The project site has been previously graded and disturbed; however, prehistoric- and historic-era peoples made use of the project area. Therefore, buried cultural resources may exist in the subsurface. Although no significant cultural resources are recorded within the project site, presently unknown resources could potentially be disturbed during construction activities (e.g., grading and/or deep trenching for utilities). Impacts to archaeological resources are potentially significant and will be evaluated in the Draft EIR.

Coordination with the Native American Heritage Commission (NAHC) and interested tribes has been initiated with a Sacred Lands File search request. Results of this coordination effort will be summarized in the Draft EIR.

c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

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<thead>
<tr>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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(Source: 14)

The project site has been previously graded and disturbed; however, Figure E-2, Paleontological Sensitivity Zones, of the Cultural Resources Element identifies the project site as an area with high paleontological sensitivity. There is the potential to uncover unknown paleontological resources during ground-disturbing activities. Impacts to paleontological resources are potentially significant and will be evaluated in the Draft EIR.
d) Disturb any human remains, including those interred outside of formal cemeteries?

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<thead>
<tr>
<th>Impact Type</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
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The majority of the project site has been previously graded, and no human remains were encountered during previous construction activities. Therefore, the proposed project would not develop any areas containing known human remains, including those interred outside formal cemeteries. However, in the unlikely event that suspected human remains are uncovered during construction, all activities in the vicinity of the remains shall cease and the contractor shall notify the County Coroner immediately pursuant to Section 7050.5 of the California Health and Safety Code. Compliance with regulatory requirements would ensure that potential impacts are less than significant; however, this issue will be evaluated in the Draft EIR.

VI. GEOLOGY/SOILS

Would the project:

a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?

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<thead>
<tr>
<th>Impact Type</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
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(Sources: 15, 16)

As with all of Southern California, the project site is within a seismically active region. As identified on Figure D-1, Regional Geology, of the City of Irvine General Plan's Seismic Element, there are no major or active faults mapped at the project site that could result in surface rupture. Furthermore, the City of Irvine is not identified as a city affected by an Alquist-Priolo Fault Zone (CDMG 2010). There would be no impact from risk of loss, injury, or death involving fault rupture associated with implementation of the proposed project and no further evaluation of this issue is required in the Draft EIR.

ii) Strong seismic ground shaking?

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<th>Impact Type</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
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(Sources: 15, 16)

The project site, as with all of Southern California, could be subject to ground shaking in the event of an earthquake. The project sites would be expected to experience moderate to high intensity seismic shaking from an earthquake on an active regional fault during the lifetime of the proposed project. In compliance with the City’s standard requirements, a site-specific geotechnical study will be prepared to evaluate the potential impacts associated with implementation of the proposed project. Compliance with the recommendations of the site-specific geotechnical study and requirements of the 2013 California Building Code (CBC), as required by the City, would ensure that the proposed project is designed and constructed based on site-specific parameters and current engineering practices. Therefore, it is anticipated there would
be a less than significant impact related to strong ground shaking and seismic-related ground failure, including liquefaction. However, the results of the site-specific geotechnical study, including any potentially significant seismic-related impacts that could affect the project site, including liquefaction, will be evaluated in the Draft EIR.

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<th>iv) Landslides?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
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(Source: 17)

The project site’s topography is described as a bowl-shape with the center of the site being relatively flat and the surrounding slopes having low to moderate grades. Located to the south and not a part of the project site is French Hill, which slopes up from the project site. Mason Regional Park, located to the north of the project site, slopes downward from the project site toward University Drive. Portions of the project site are identified on the State of California Seismic Hazard Zones Tustin Quadrangle as “Earthquake-Induced Landslide”, which is defined as an area where previous occurrence of landslide movement of local topographic, geological, geotechnical, and subsurface water conditions indicate the potential for permanent ground displacements requiring mitigation. The potential for landslides on the project site, which would be a potentially significant impact, will be evaluated in a site-specific geotechnical report and evaluated in the Draft EIR.

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<th>b) Result in substantial soil erosion or the loss of topsoil?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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The project site is predominantly developed; however, there are some undeveloped pervious areas. Previous grading activities and placement of engineered fill disturbed the topsoil (topsoil is the layer of the soil containing nutrients and is particularly valuable for agricultural operations). Existing topsoil would be disturbed with implementation of the proposed project; however, since no agricultural operations exist or are planned for the site, disturbance of the site’s topsoil layer is considered less than significant.

During construction activities, soil would be exposed and there would be an increased potential for soil erosion compared to the existing conditions. Additionally, during a storm event, soil erosion could occur at an accelerated rate. Project site grading, the storm drain system, and landscape cover would be designed to City standards to minimize long-term erosion potential. Additionally, the amount of erosion would decrease under developed conditions with an increase in impervious surface area and landscape coverage. Compliance with State-mandated requirements for erosion control during construction would ensure that potential impacts related to erosion are less than significant. No further evaluation of this issue is required in the Draft EIR.

<table>
<thead>
<tr>
<th>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?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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(Source: 17)

The project site is located in a City-designated Hillside Overlay District. According to State of California Seismic Hazard Zones Tustin Quadrangle (2001), portions of the project site are identified as “Earthquake-Induced Landslide” as discussed in Threshold “a(iv)” above. Potential significant project impacts related to instability of the site’s geologic materials will be evaluated in a site-specific geotechnical study and evaluated in the Draft EIR.
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<th>Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
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Existing soil conditions, including the potential for expansive soils, which could result in potentially significant impacts, will be evaluated in the site-specific geotechnical study and evaluated in the Draft EIR.

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<th>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?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
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The proposed project would connect with the municipal sewer system and would not involve the use of septic systems or alternative wastewater disposal systems; therefore, no soil impacts related to septic tanks or alternative wastewater disposal systems are relevant. No further evaluation of this issue is required in the Draft EIR.

**VII. GREENHOUSE GAS EMISSIONS**

Would the project:

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<tr>
<th></th>
<th>Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
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The proposed project would have the potential to increase greenhouse gas (GHG) emissions through an increase in traffic, increased demand for water and energy, and the generation of solid waste and wastewater. The potential for the proposed project to generate GHG emissions during construction and operation, either directly or indirectly, that may have a significant impact on the environment will be evaluated in the Draft EIR.

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<th>Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
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The project’s impact would be potentially significant if the project conflicts with applicable plans, policies, or regulations adopted for the purpose of reducing GHG emissions. This issue will be evaluated in the Draft EIR.
### VIII. HAZARDS AND HAZARDOUS MATERIALS

Would the project:

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<th></th>
<th>Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
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(Source: 18)

Pursuant to Section 4-17-104 of the *City of Irvine Municipal Code*, "a substance may be deemed a hazardous material or hazardous waste upon a finding by the Director of Fire Services that the substance, because of its quantity, concentration or physical or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment if released into the community". Construction activities associated with the proposed project would involve the use of chemical substances such as solvents, paints, fuel for equipment, and other potentially hazardous materials. These materials are common to typical construction activities and do not pose a significant hazard to the public or the environment.

Long-term operations at Concordia University are not anticipated to involve substantial amounts of hazardous substances. Future development of the proposed uses, as allowed by the Campus Master Build-Out Plan Update, would be consistent with existing campus development and typical hazardous substances that are already in use. Standard cleaning products and pesticides and/or herbicides would be used in association with standard landscaping and maintenance practices. Additionally, hazardous substances are used in laboratories and buildings on campus. Substances in the hazardous material category of Compressed Gas (i.e. liquid helium storage, liquid nitrogen, high pressure nitrogen gas cylinder, oxygen, and refrigerated liquid carbon dioxide) are used in Founders Hall and the Student Union; Class III-B Combustible Liquid (i.e. miscellaneous oils) are used in Library Arts, CU Arena, Student Union, and Grimm Hall; Class II (1.1 II) Combustible Liquid (i.e. diesel fuel) is found between Founders Hall and Grimm Hall, and in the Facilities Maintenance Building; and Corrosives (sulfuric acid) is stored in the Facilities Maintenance Building. However, the amount of materials that would be handled at any one time is relatively small, would not be any greater than what is currently used for on campus operations, and would not create a significant hazard to the public or environment.

The proposed project would not create a significant public hazard through the routine transport, use, or disposal of hazardous materials during construction or operation of the proposed project. This impact is less than significant and no mitigation is required. No further evaluation of this issue is required in the Draft EIR.

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<th>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?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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During the construction phase of the project, there is a limited risk of accidental release of hazardous materials such as gasoline, oil, or other fluids in the operation and maintenance of construction equipment. However, use of these materials is typical during operation and maintenance of construction equipment and would be conducted in compliance with applicable state and local regulations. Because some of the existing structures to be demolished as part of the proposed project were constructed in the 1970s (i.e., prior to the establishment of regulations associated with the use of asbestos-containing materials [ACMs] and lead-based paint [LBP]), it is possible that construction workers would be exposed to these hazardous materials. These issues will be evaluated in the Draft EIR.

With implementation of the proposed Campus Master Build-Out Plan, operations and activities at the Concordia University campus would be consistent with current operations and activities and would not be expected to create a significant hazard to the public or the environment through reasonably foreseeable upset or accident conditions. However, a discussion of current conditions on campus (including the use of hazardous materials) and an evaluation of the potential to create a significant hazard to the public or the environment will be provided in the Draft EIR.
### c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

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<tr>
<th>Impact Type</th>
<th>Potential Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
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Existing schools within ¼ mile of the project site include Turtle Rock Preschool (1 Concordia West) and Turtle Rock Elementary School (5151 Amalfi Drive). The proposed operations would not deviate from the current operations on campus and would not involve the use, storage, handling, transport, or emission of hazardous materials in a manner or quantity that would result in a risk to the schools identified above. These activities are conducted in compliance with applicable local and State requirements. However, the potential for significant impacts will be further evaluated in the Draft EIR.

### 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?

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<th>Impact Type</th>
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(Source: 19)

An Environmental Data Resources, Inc. (EDR) EDR Radius Map™ with GeoCheck® (EDR Report) was prepared for the project site and is included as Appendix A. The EDR Report incorporates data from a search of government databases to determine the presence or absence of significant hazardous materials or conditions on or near the project site. The project site is not located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962 (Cortese List).

There are three database listings reported on the project site, but there are no additional database listings within a one-mile radius of the project site. Of the listings on the project site, two are on the California Department of Toxic Substances Control's (DTSC's) Hazardous Waste Information System (HAZNET) database and the other listing is on the California Hazardous Material Incident Report System (CHMIRS) database.

The HAZNET database is a listing of the “facility and manifest” data that is extracted from the copies of hazardous waste manifests received each year by the DTSC. The first HAZNET listing was for an “unspecified organic liquid mixture” in 1995 and an “aqueous solution with total organic residues 10 percent or more” in 1997. The method of disposal listed in the EDR Report is “recycler”. The second HAZNET listing did not report a type of waste, but indicated a disposal method of “Storage, Bulking and/or Transfer Off Site-No Treatment/Recovery” for five instances in 2013. These HAZNET listings are not for a specific site on campus, rather they document that hazardous waste was removed from the campus.

The CHMIRS database contains information on reported hazardous material incidents (accidental releases or spills). On June 21, 2013, an on-campus burglary involving vandalism caused the release of mercury (metallic or liquid) onto the floor inside Founder’s Hall. The building was evacuated and containment and cleanup ensued. The Orange County Emergency Management Division administered oversight of the cleanup.

Based on the information provided in the EDR Report and information from Concordia University, the HAZNET and CHMIRS database listings on the project site are closed with no further action required. There are no surrounding property database listings that would impact the project site. The previous incidents at the project site would not create a significant hazard to the public or the environment. Therefore, no significant impact would occur from implementation of the proposed project. No further evaluation of this issue is required in the Draft 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 for people residing or working in the project area?

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<tr>
<th>Impact Type</th>
<th>Potentially Significant Impact</th>
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(Source: 20)

The project site is not located within two miles of a public airport or public use airport. The closest airport to the City of Irvine is John Wayne Airport (JWA), which is approximately 3.2 miles northwest of the project site. The project site is outside of the John Wayne Airport Clear Zones depicted on Figure J-4, Clear and Accident Potential Zones, of the City of Irvine General Plan’s Safety Element. Based on review of the Airport Environs Land Use Plan for John Wayne Airport, the project site is not within a designated Airport Impact Zone, Airport Environs Land Use Plan (AELUP) Notification Area for JWA, a JWA Obstruction Imaginary Surface area, or within a height-restricted zone. No impact would result and no mitigation is required. No further evaluation of this issue is required in the Draft EIR.

f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?

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(Source: 21)

The project site is not located in the vicinity of a private airstrip. As a result, future site development would not present a safety hazard to existing or future residents or people working in the area due to airport operations. No impact would result and no mitigation is required. No further evaluation of this issue is required in the Draft EIR.

g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

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(Sources: 21, 22, 23, 24)

The City has prepared an Emergency Management Plan to provide guidance for the City’s response to emergency situations such as natural disasters, technological incidents, and national security emergencies. Technological incidents include those ranging from failure of major computer systems managing backbone infrastructure and vital services to spills of hazardous materials used in technology or manufacturing processes. The City’s Emergency Services Ordinance (Title 4, Division 9 of the City of Irvine Municipal Code) provides for “the preparation and carrying out of plans for the protection of persons and property . . . in the event of an emergency; the direction of the emergency organization; and the coordination of emergency functions . . .”.

The City’s Emergency Management Plan does not address day-to-day emergencies, design of development projects, or land use planning efforts (e.g., amendments to the General Plan or zone changes). Instead, it focuses on potential large-scale disasters that would require unusual emergency responses, such as mass evacuations. Additionally, Concordia University has prepared a “Campus Emergency Quick Plan” that identifies procedures for emergencies, including building evacuation procedures and building evacuation assembly areas.

Implementation of the proposed Campus Master Build-Out Plan would not interfere with the implementation of the City’s Emergency Management Plan or the Campus Emergency Quick Plan. During project construction or operation and consistent with the existing conditions, should an emergency occur on the project site that would necessitate evacuation, the internal street system would provide access and one lane would always remain open to provide access to the outlying arterial roadway system. No further evaluation of this issue is required in the Draft EIR.
h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?  

<table>
<thead>
<tr>
<th>Impact of the Project</th>
<th>Mitigation Required</th>
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</thead>
<tbody>
<tr>
<td>Potentially Significant Impact</td>
<td>Less than Significant Impact with Mitigation Incorporated</td>
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<td>x</td>
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</table>

(Source: 21)

The project site is developed with urbanized areas to the west and east. Mason Regional Park is located to the north and French Hill (protected open space) is located to the south. According to Figure J-2, Fire Hazard Areas, included in the City of Irvine General Plan’s Safety Element, the project site is partially located within an area designated as “High Fire Severity Rating & Open Space with Fire Potential”, resulting in a potentially significant impact. An evaluation of the proposed project’s potential to expose people or structures to fire hazards, including a discussion of the proposed project’s fuel modification plan, will be provided in the Draft EIR.

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### IX. HYDROLOGY/WATER QUALITY

Would the project:

a) Violate any water quality standards or waste discharge requirements?

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<tr>
<th>Impact of the Project</th>
<th>Mitigation Required</th>
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<tbody>
<tr>
<td>Potentially Significant Impact</td>
<td>Less than Significant Impact with Mitigation Incorporated</td>
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</table>

(Source: 25)

The project site is located within the tributary watershed of the existing San Diego Creek. The San Diego Creek Watershed consists of approximately 112 square miles and ultimately drains into Upper Newport Bay. The project site is tributary to Sand Canyon Wash, a natural watercourse that discharges into the concrete lined San Diego Creek Channel. Potentially significant short-term construction-related and long-term operational impacts of the proposed project on water quality in local surface water bodies, including San Diego Creek and Newport Bay, will be evaluated in the Draft EIR. The water quality analysis will take into account storm water best management practices (BMPs) required by existing regulations, including Orange County’s Drainage Area Master Plan (DAMP) and the City of Irvine’s Local Implementation Plan (LIP).

b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g. the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?

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<thead>
<tr>
<th>Impact of the Project</th>
<th>Mitigation Required</th>
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<tbody>
<tr>
<td>Potentially Significant Impact</td>
<td>Less than Significant Impact with Mitigation Incorporated</td>
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</table>

(Sources: 25, 26)

The project site is located within the Irvine Subbasin of the Orange County Groundwater Basin, and groundwater is expected to be at depths of 30 feet or deeper. The proposed project would not involve direct or indirect withdrawals of groundwater. Domestic water service would be provided by the Irvine Ranch Water District. Although additional development on the project site would reduce the pervious areas available for natural recharge (due to the construction of buildings, sidewalks, or other structures), the area of the project site to be developed is small (approximately 34.6 acres) from a regional recharge perspective, and the project site does not accept run-on, only direct precipitation, providing little overall opportunity for recharge under existing conditions. The Orange County Water District is responsible for managing the groundwater basin and has established recharge basins in the Cities of Anaheim and Orange. There are no recharge basins in the City of Irvine. Therefore, the proposed project would not deplete groundwater supplies or interfere substantially with groundwater recharge. This impact would be less than significant and no mitigation is required. No further evaluation of this issue is required in the Draft EIR.
<table>
<thead>
<tr>
<th>Threshold</th>
<th>Description</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>c)</td>
<td>Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?</td>
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<td>d)</td>
<td>Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner in which would result in flooding on- or off-site?</td>
<td>x</td>
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<td>e)</td>
<td>Create or contribute runoff water which would exceed the capacity of existing or planned storm water drainage systems or provide substantial additional sources of polluted runoff?</td>
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<td>f)</td>
<td>Otherwise substantially degrade water quality?</td>
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<td>g)</td>
<td>Place housing within a 100-year flood hazard area as mapped on federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?</td>
<td>x</td>
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</table>

The project site currently includes impervious surfaces and pervious landscaped or undeveloped areas that currently drain to two existing 48-inch storm drains on the project site. There are two existing drainages on campus near the parking lot in the northeastern portion of the project site (refer to Exhibit 3). The proposed project would result in an increase in impervious surfaces on the project site and an associated increase in the amount and rate of storm water runoff, resulting in a potentially significant impact. The potential change in drainage patterns and for on- and off-site erosion and flooding will be evaluated in the Draft EIR.

Refer to Threshold “c” above.

As noted above, the amount and rate of storm water runoff will be altered with development of the proposed project, and storm water runoff would be directed to existing storm drains. This potentially significant impact will be evaluated in the Draft EIR.

Refer to the impact discussion under Threshold “a” above. This potentially significant impact will be evaluated in the Draft EIR.

(Sources: 21, 27)

The Federal Emergency Management Agency (FEMA) publishes Flood Insurance Rate Maps (FIRMs) that identify areas where there is flooding potential. Based on review of the FIRMs applicable to the project site, and Figure J-3, Flood Hazard Areas, of the City of Irvine General Plan’s Safety Element, the project site is outside the 100-year floodplain. No further evaluation of this issue is required in the Draft EIR.
<table>
<thead>
<tr>
<th>h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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<tbody>
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<td>(Sources: 21, 27)</td>
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As identified above, the project site is outside the 100-year floodplain; therefore, no structures would be placed in the 100-year flood hazard area that would impede or redirect flood flows. No further evaluation of this issue is required in the Draft EIR.

<table>
<thead>
<tr>
<th>i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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The project site is not located near any levees or dams; therefore, there is no risk of flooding from the failure of these facilities. The Irvine Ranch Water District-owned Sand Canyon Reservoir is located approximately 0.75 mile southeast of the campus and is surrounded by the Strawberry Farms Golf Club. The project site, which is at a higher elevation and is not downstream of the reservoir, would not be affected by inundation from the reservoir. No impacts would result, and no mitigation is required. No further evaluation of this issue is required in the Draft EIR.

<table>
<thead>
<tr>
<th>j) Inundation by seiche, tsunami, or mudflow?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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<tbody>
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<td>(Source: 6)</td>
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Based on review of the Figure L-2 of the City of Irvine General Plan’s Conservation and Open Space Element, the project site is not located in proximity to standing bodies of water or water storage facilities. Therefore, there is no risk from inundation by a seiche. The project site is located approximately 5.5 miles northeast of the Pacific Ocean and, therefore, would not be subject to inundation by tsunami. The project site, located in the San Joaquin Hills area of Irvine, is in a designated Hillside Overlay District, and French Hill is adjacent to and south of the project site. The potential for mudflow, which is a potentially significant impact, will be evaluated in the Draft EIR.

### X. LAND USE/PLANNING

Would the project:

<table>
<thead>
<tr>
<th>a) Physically divide an established community?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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As discussed in the Project Description and shown on Exhibit 2, the project site, which includes the Concordia University campus, is bound by Mason Regional Park to the north, an open space preserve (French Hill) to the south, and existing residential areas to the east and west (Concordia East and Concordia West, respectively). The campus is currently developed with uses that are allowed under the existing Campus Master Build-Out Plan, and most of the on-site uses were constructed prior to development of the adjacent residential neighborhoods. The proposed project involves an update to the Campus Master Build-Out Plan identifying the potential future development on the campus. The proposed project does not involve the introduction of any new off-site roadways or uses that have the potential physically divide an
established community. Proposed development would occur within the existing footprint of the campus; any offsite infrastructure improvements would be limited to connections to existing facilities on or adjacent to the campus. The proposed project would not require a General Plan Amendment and the requested zone change would not change the underlying land use. Implementation of the proposed project would not physically divide an established community. No significant impacts would result and no mitigation is required. No further evaluation of this issue is required in the Draft EIR.

b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?

<table>
<thead>
<tr>
<th>Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
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Local plans, policies, and regulations applicable to the proposed project include, but are not limited to the City of Irvine General Plan and the City’s Zoning Ordinance. Pursuant to Section 15206 of the State CEQA Guidelines, the proposed project does not meet the criteria established for being a project of “statewide, regional or areawide significance”. Therefore, an assessment of the project’s consistency with Southern California Association of Government (SCAG) regional planning plans and programs is not required. The project is not located in the coastal zone, and is not subject to the local coastal program. Conflict with a relevant plan, policy or program could result in potentially significant impact. The consistency of the proposed project with current applicable land use plans, policies, and regulations of an agency with jurisdiction over the proposed project will be evaluated in the Draft EIR.

c) Conflict with any applicable habitat conservation plan or natural community conservation plan?

<table>
<thead>
<tr>
<th>Conflict with any applicable habitat conservation plan or natural community conservation plan?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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(Source: 11)

As previously discussed in Section IV, Biological Resources (Threshold “f”), the project site is within the planning area covered by the Central/Coastal NCCP/HCP. The NCCP/HCP identifies that the project site is in a development area (i.e., it is not located in a Reserve area). However, the project site is located adjacent to Mason Regional Park, which is designated as Non-Reserve Open Space, and is also adjacent to designated Existing Use areas, including French Hill. The golf course east of Ridgeline Drive is designated a Special Linkage area. The City is a participant in the Central/Coastal NCCP/HCP and its IA, and the proposed project would be implemented in compliance with all applicable NCCP/HCP and associated IA requirements, including completion of required surveys for sensitive species. The proposed project would not conflict with the provisions of Central/Coastal NCCP/HCP. However, due to the presence of sensitive biological resources in and adjacent to the project site, this issue will be further evaluated in the Draft EIR.

XI. MINERAL RESOURCES

Would the project:

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

<table>
<thead>
<tr>
<th>Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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(Sources: 6, 28)

Important mineral resource areas are recognized at the federal and State levels through environmental resource management plans and adopted mineral resource mapping; they are recognized at the local level through land use planning documents such as general plans that incorporate such information. Based on review of the City of Irvine General Plan Conservation and Open Space Element and the California Department of Conservation’s (DOC’s) Aggregate Resources in the Los Angeles Metropolitan Area map, there are no locally important mineral resource recovery sites.
designated in the City. Therefore, implementation of the proposed project would not result in the loss of such mineral resources. No mineral resources impacts would occur, and no mitigation is required. No further evaluation of this issue is required in the Draft EIR.

<table>
<thead>
<tr>
<th>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?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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</table>

(Sources: 6, 28)

Based on review of the City of Irvine General Plan Conservation and Open Space Element and the DOC’s Aggregate Resources in the Los Angeles Metropolitan Area map, there are no locally important mineral resource recovery sites designated in the City. Therefore, implementation of the proposed project would not result in the loss of such mineral resources. No mineral resources impacts would occur, and no mitigation is required. No further evaluation of this issue is required in the Draft EIR.

**XII. NOISE**

Would the project result in:

<table>
<thead>
<tr>
<th>a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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</table>

The project site is bound by Mason Regional Park to the north, an open space preserve to the south, and existing residential areas to the east and west. There is a potential for existing residents in the adjacent residential areas, existing residences on site, and students in the future residence hall to be exposed to noise levels in excess of standards established in the City of Irvine General Plan Noise Element, the City of Irvine Municipal Code, and the California Building Code. This potentially significant impact will be evaluated in the Draft EIR.

<table>
<thead>
<tr>
<th>b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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Groundborne vibration generated by construction projects is usually highest during impact pile driving, blasting, and demolition-related activities. While construction of the proposed project would not require pile driving, blasting may be necessary and demolition of existing structures is proposed. This potentially significant impact will be evaluated in the Draft EIR.

<table>
<thead>
<tr>
<th>c) A substantially permanent increase in ambient noise levels in the project vicinity above levels existing without the project?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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A permanent increase in ambient noise levels could result from long-term operation of the proposed project. Operational noise impacts include traffic-related noise impacts to off-site uses and noise impacts from on-site activities. Long-term impacts to sensitive noise receptors from project-related noise sources are potentially significant and will be evaluated in the Draft EIR.
### A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?

<table>
<thead>
<tr>
<th>Impact Type</th>
<th>Impact Level</th>
<th>Mitigation</th>
<th>Impact Level</th>
<th>Impact Level</th>
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<th>Impact Type</th>
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<td>Potentially Significant Impact</td>
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Construction noise is related primarily to the use of heavy equipment. Short-term impacts from construction of the proposed project to existing sensitive uses on campus and at adjacent residential uses are potentially significant will be evaluated in the Draft EIR.

### For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

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<thead>
<tr>
<th>Impact Type</th>
<th>Impact Level</th>
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(Source: 29)

As previously identified, the project site is located approximately 3.2 miles southeast of the nearest public airport, JWA. As shown on Figure F-1, Aircraft Noise, of the City of Irvine General Plan’s Noise Element, the project site is not located in the 65 Community Noise Equivalent Level (CNEL) of the airport. Therefore, the proposed project would not expose people residing or working in the project area to excessive noise levels. No further evaluation of this issue is required in the Draft EIR.

### For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?

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<tr>
<th>Impact Type</th>
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The project site is not located within the vicinity of a private airstrip; therefore, no noise impacts related to private airstrip operations would occur. No further evaluation of this issue is required in the Draft EIR.

### XIII. POPULATION/HOUSING

Would the project:

### Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

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<th>Impact Type</th>
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The proposed project would not directly or indirectly induce substantial population growth beyond that currently anticipated by local and regional population projections. However, there would be an increase in the student population and associated faculty and staff population on campus compared to current conditions. This issue will be further evaluated in the Draft EIR.
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?

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<tr>
<th>Impact Level</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
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<th>No Impact</th>
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There are currently four student residence halls (256 institutional dwelling units/1,024 beds) located on the campus that would remain with the proposed project. The project proposes additional residence halls that would provide an additional 74 units (296 beds) for student housing. Therefore, the proposed project would not result in the displacement of housing necessitating the construction of replacement housing elsewhere. No impact would result and no mitigation is required. No further evaluation of this issue is required in the Draft EIR.

c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?

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<th>Impact Level</th>
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<th>Less than Significant Impact with Mitigation Incorporated</th>
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The existing residence halls located on campus would remain with the proposed project. The proposed Campus Master Build-Out Plan Update includes the development of additional residence halls that would accommodate 74 institutional dwelling units (296 beds) for student housing. Therefore, the proposed project would not result in the displacement of people necessitating the construction of replacement housing elsewhere. No impact would result and no mitigation is required. No further evaluation of this issue is required in the Draft EIR.

### XIV. PUBLIC SERVICES

Would the project:

a) 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 following public services:

<table>
<thead>
<tr>
<th>Service</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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</thead>
<tbody>
<tr>
<td>i) Fire protection?</td>
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</table>

The Orange County Fire Authority provides fire protection services to the project site. The proposed project would allow for additional development on campus compared to existing conditions and has the potential to increase the demand for fire protection and emergency services beyond existing levels. This potentially significant impact will be evaluated in the Draft EIR.

<table>
<thead>
<tr>
<th>Service</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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<tr>
<td>ii) Police protection?</td>
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Police protection services for the City of Irvine, including Concordia University Irvine, are provided by the Irvine Police Department (IPD). The proposed project would allow for additional development on campus compared to existing conditions and has the potential to increase the demand for police protection services beyond existing levels. This potentially significant impact will be evaluated in the Draft EIR.
<table>
<thead>
<tr>
<th></th>
<th>Schools?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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Increases in students attending public schools (Kindergarten [K] through 12th grade) typically occur with the introduction of new residential dwelling units. Students attending public schools in the City of Irvine, including children of Concordia University faculty and staff that live in the City are served by the Irvine Unified School District (IUSD), Tustin Unified School District, and Santa Ana Unified School District.

The proposed project does not involve the development of new residential uses that would generate new K through 12th grade students; new dorm rooms are for individual Concordia University students, not families. Therefore, the proposed project would not directly create a source of students attending IUSD schools and no direct impact on school services and facilities would occur. Additionally, if it is determined by IUSD that the project is not exempt, appropriate developer impact fees, as required by State law, shall be assessed and paid to the school district. Section 65995(b) of the California Government Code establishes the base amount of allowed developer fees and allows increases in the base fee every two years. School districts are placed into a specific "level" based on school impact fee amounts that are imposed on the development. With the payment of these fees, if required, and with no additional students directly generated from the proposed project, no significant impacts to school services would result. The proposed project would not require the construction of new or expanded school facilities beyond that proposed on campus as part of the project, and no environmental impacts would result. No further evaluation of this issue will be provided in the Draft EIR.

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<th>Parks?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
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The City of Irvine provides community services and recreational and leisure time opportunities and is responsible for the planning, development, and maintenance of the City's parks and recreational facilities. Additionally, Orange County (OC) Parks owns and operates Mason Regional Park located north and adjacent to the campus. There would be an increase in the student population and associated faculty and staff population on campus with the proposed project, compared to current conditions. However, as indicated above, the proposed project would not directly or indirectly induce substantial population growth in the City beyond that currently anticipated by local and regional population projections. The proposed non-residential project would not require the dedication and/or construction of new or expanded recreational facilities owned and operated by the City of Irvine or OC Parks. However, as described in the Project Description, the proposed Campus Master Build-Out Plan Update includes the provision of new athletic fields and other facilities to better serve students, faculty, and staff. No further evaluation of this issue will be provided in the Draft EIR.

<table>
<thead>
<tr>
<th></th>
<th>Other public facilities?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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Orange County Public Library (OCPL) provides library services to municipalities and unincorporated parts of Orange County. Although, there would be increase in on-campus students and associated faculty and staff compared to existing conditions, the existing Concordia University library located on campus would adequately serve existing and future students, faculty and staff and no new library facilities are required. No further evaluation of this issue will be provided in the Draft EIR.
### XV. RECREATION

Would the project:

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<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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<tbody>
<tr>
<td>a)</td>
<td>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?</td>
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</table>

As described above in in Section XIV, Public Services (Threshold “a[iv]”), the City provides community services and recreational and leisure time opportunities and is responsible for the planning, development, and maintenance of the City’s parks and recreational facilities. OC Parks owns and operates Mason Regional Park located north and adjacent to the campus. The proposed project would not result in a direct increase in the population in the City and would not result in the physical deterioration of these facilities. The proposed Campus Master Build-Out Plan Update includes the provision of new, improved and/or relocated athletic and recreational facilities to better serve students, faculty, and staff. Additionally, it should be noted that the campus gymnasium is the only facility currently used by the City under the existing Joint Use Agreement between the City and Concordia for use of athletic facilities. The proposed project does not involve any uses or development activities that would preclude continued use of the gymnasium. No further evaluation of this issue will be provided in the Draft EIR.

A City of Irvine bikeway easement traverses the project site. The bikeway easement is discussed below under Threshold “f”.

<table>
<thead>
<tr>
<th>b</th>
<th>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?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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</table>

The proposed Campus Master Build-Out Plan Update allows for the construction of new and/or relocated athletic facilities such as sand volleyball courts (2), four relocated tennis courts and two new courts on a deck over the southwest parking lot (6 courts total). Uncovered athletic bleacher-style seating (300 capacity) for the existing track and soccer fields and new restrooms and locker rooms for athletics would also be added. The Plan would also allow for the construction of a new lap/recreational pool and deck for use by University students and staff. These facilities are within the project site and the physical impact area associated with implementation of the proposed project. Potential impacts resulting from the construction and operation of these athletic facilities (e.g., noise, light and glare) will be evaluated through the impact analysis presented throughout this Initial Study and the Draft EIR.

### XVI. TRANSPORTATION/TRAFFIC

Would the project:

<table>
<thead>
<tr>
<th>a</th>
<th>Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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</table>

The proposed project involves an update to the Campus Master Build-Out Plan, which includes the removal of some existing institutional buildings; construction of new and additions to existing institutional buildings; construction of a new residence halls; relocation of existing and construction of new athletic facilities; construction of a lap/recreational pool with deck; and parking and circulation improvements. There would be an increase in the total amount of development on
campus, and associated increase in the on campus population (e.g., students, faculty and staff) compared to existing conditions; however, there would be no increase in allowed square footage of institutional development or number of dormitory units based on the provisions of the General Plan. There would be an increase in traffic during construction (associated with transport of equipment and building materials, and construction workers traffic, etc.), and during operation (with the increase in students, faculty and staff). Potential short-term construction-related and long-term operational traffic-related impacts (including but not limited to impacts to intersections, streets, and highways and freeways) are potentially significant and will be evaluated in the Draft EIR. Concordia did not historically maintain a comprehensive campus traffic management program, which has led to inefficiencies related to parking and traffic in the past. While a comprehensive traffic management program was implemented February 2015, physical transportation improvements, additional parking and a commitment to continued traffic management have been made part of the project to address parking and traffic issues.

Non-vehicular modes of transportation including pedestrian and bicycle paths, and mass transit are discussed under Threshold “f”, below.

<table>
<thead>
<tr>
<th>b)</th>
<th>Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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The Congestion Management Program (CMP) legislation requires that the CMP Agency (in this case the Orange County Transportation Authority [OCTA]), monitor the implementation of the Orange County CMP, including CMP land use coordination component requirements. The goal of the CMP is to ensure that certain key intersections within the CMP Highway System (CMPHS) are operating at acceptable levels. The CMP has been developed to monitor impacts on CMPHS intersections. The proposed project’s potentially significant impacts to CMP intersections will be evaluated in the Draft EIR.

<table>
<thead>
<tr>
<th>c)</th>
<th>Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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(Sources: 20, 22)

The proposed project would not include any uses that would change air traffic patterns or locations and would not increase the amount of air traffic. John Wayne Airport is the closest airport to the project site and is located approximately 3.2 miles northwest of the project site. No impact would occur and no mitigation is required. No further evaluation of this issue is required in the Draft EIR.

<table>
<thead>
<tr>
<th>d)</th>
<th>Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
<th>Less than Significant Impact</th>
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The proposed project involves the development of the improvements on campus which include construction of new buildings and new, relocated or improved athletic and recreational facilities. Improvements to the circulation system (on and off the campus) are proposed and potentially significant impacts related to hazards from design will be further evaluated in the Draft EIR based on the results of the project-specific traffic study.
e) Result in inadequate emergency access?

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<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
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As described above in Threshold “d”, improvements to the on- and off-campus circulation system are proposed with the project. Further evaluation of this potentially significant impact will be provided in the Draft EIR.

f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?

<table>
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<tr>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
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There are transit (including OCTA bus routes 175 and 79), bicycle and pedestrian facilities that serve the campus, and there is an existing City of Irvine bicycle easement that passes through the campus. The proposed project could increase the demand for these facilities. The potential for the project to impact these facilities or conflict with adopted plans, policies or programs related to these facilities, which would be considered a significant impact, will be evaluated in the Draft EIR.

XVII. UTILITIES/SERVICE SYSTEMS

Would the project:

a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?

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<th>Potentially Significant Impact</th>
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</table>

Wastewater originating from the project site would be generated by proposed uses allowed by the Campus Master Build-Out Plan and would ultimately be treated by facilities owned and operated by the IRWD. The wastewater treatment requirements issued by the California Regional Water Quality Control Board (RWQCB) for the IRWD’s treatment plant were developed to ensure that adequate levels of treatment would be provided for the wastewater flows emanating from all land uses in its service area. Concordia University does not discharge prohibited substances or allow such substances to be discharged into the wastewater system. Prohibited substances are disposed of by a third party in compliance with applicable regulations. Consistent with existing conditions, implementation of the proposed project would not result in the development of any uses that would result in the discharge of prohibited substances into the wastewater system or cause the treatment plant to exceed the applicable treatment requirements. No impacts would result, and no mitigation is required. No further evaluation of this issue is required in the Draft EIR.

b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

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<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
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The IRWD provides wastewater (sewer) collection and treatment and potable and non-potable water service in the City. Non-potable water demand is supplied by recycled water from the Michelson Treatment Plant located in the City. Utility studies will be prepared to determine the increase in wastewater generation and water consumption and whether new or expanded facilities are required to serve the proposed uses. This potentially significant impact will be evaluated in the Draft EIR.
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

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<tr>
<th>Impact Level</th>
<th>Mitigation</th>
<th>No Impact</th>
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<tr>
<td>Potentially Significant Impact</td>
<td>Less than Significant Impact with Mitigation Incorporated</td>
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The amount and rate of storm water runoff would be altered with development of the project site, and storm water runoff would be directed to existing storm drains. A hydrology/drainage study will be prepared to determine whether new or expanded facilities are required to serve the proposed uses. This potentially significant impact will be evaluated in the Draft EIR.

d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?

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<thead>
<tr>
<th>Impact Level</th>
<th>Mitigation</th>
<th>No Impact</th>
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<tbody>
<tr>
<td>Potentially Significant Impact</td>
<td>Less than Significant Impact with Mitigation Incorporated</td>
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As identified above, the IRWD provides both potable (domestic) and non-potable water services to the City, including Concordia University. In accordance with State law, the IRWD has developed and maintained a plan relative to provisions for long-term water supply. The increase in water demand resulting from the project is a potentially significant impact and the availability of water supplies will be evaluated in the Draft EIR.

e) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project’s projected demand in addition to the provider’s existing commitments?

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<th>Impact Level</th>
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<td>Potentially Significant Impact</td>
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IRWD provides wastewater treatment service for the City of Irvine, including Concordia University. The proposed project’s potentially significant impacts on the capacity of IRWD’s wastewater treatment facilities will be evaluated in the Draft EIR.

f) Be served by a landfill with sufficient permitted capacity to accommodate the project’s solid waste disposal needs?

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<th>Impact Level</th>
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(Sources: 30, 31, 32)

The City of Irvine is under contract with Waste Management to dispose of its wastes into the Orange County landfill system. Waste Management provides service through an extensive collection of waste/recycling collection bins at the campus including refuse bins, food bins, and paper/plastic recycle bins.

Concordia University generated approximately 472 tons of solid waste in 2014. Solid waste generated from Concordia University is disposed of at the Frank R. Bowerman (FRB) Landfill, which is part of the Orange County landfill system operated by OC Waste & Recycling. Based on correspondence with OC Waste & Recycling (OC Waste & Recycling 2015), the landfill is located at 11002 Bee Canyon Access Road in Irvine and currently accepts an average of approximately 6,500 tons per day and can accept a maximum daily intake of 11,500 tons. The landfill currently has a remaining estimated capacity of 190.1 million cubic yards as of June 30, 2014. The anticipated closure date for the landfill is in 2053.

With implementation of the proposed project there would be solid waste generated during construction, and an increase in daily solid waste generation during operation. Based on the U.S. Environmental Protection Agency’s (USEPA’s) new construction and demolition waste generation rate of 3.89 pounds per square foot (lbs/sf) for non-residential uses and 4.38 lbs/sf for residential uses, construction of the proposed 148,880 sf of new buildings and approximately 58,000 sf of
residence halls, as well as demolition of 71,231 sf of existing structures would generate approximately 555 tons\(^4\) of solid waste over the construction period.

Based on the operational solid waste disposal factor of 32.85 cy/thousand square feet (ksf)/year for institutional facilities and 7.30 cy/du/year for residence hall use, the project’s proposed net increase of 77,649 sf of new institutional buildings, and 74 units in the new residence halls would generate approximately 3,089.4 cy of solid waste per year\(^5\) requiring landfill disposal. Based on correspondence with the County of Orange, solid waste disposal associated with the proposed project could be accommodated within the permitted capacity of the County’s landfill system (OC Waste & Recycling 2015).

Solid waste disposal generated with the proposed project could be accommodated within the permitted capacity of the County’s landfill system (OC Waste & Recycling 2015). No impacts would result and no mitigation is required. No further evaluation of this issue is required in the Draft EIR.

<table>
<thead>
<tr>
<th>g) Comply with federal, state, and local statutes and regulations related to solid waste?</th>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporated</th>
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(Sources: 33, 34)

Construction and demolition recycling is a standard condition placed on development projects in Irvine. The provisions of the City’s Construction and Demolition (C&D) Debris and Recycling and Reuse Ordinance are outlined in Title 6, Division 7 of the City of Irvine Municipal Code. To ensure consistency with the California Green-Building Code, the City of Irvine Municipal Code (Section 6-7-903) includes thresholds for the following covered projects: 1) all projects involving new or existing residential development, except for renovations of a single residential unit; 2) all projects involving new non-residential development; 3) All projects involving the addition of non-residential floor area of 1,000 square feet or greater, or 10,000 square feet or greater of paved surface area serving a non-residential use; and 4) all projects involving non-residential demolition and/or renovation of 10,000 sf or greater of the project area, or having a project valuation of $200,000. Pursuant to Section 6-7-902 of the City of Irvine Municipal Code, if a project falls into one or more of these categories, preparation of a Waste Management Plan is required. The proposed project would fall under Categories 2, 3, and 4 and would require preparation of a Waste Management Plan. Waste Management Plans must commit to diverting a minimum of 75 percent of all concrete and asphalt construction and demolition debris and 50 percent of all other construction and demolition debris, unless the City grants an exemption.

The California Integrated Waste Management Act, also known as AB 939, created the Board now known as CalRecycle and accomplished the following: 1) it required each jurisdiction in the state to submit detailed solid waste planning documents for CalRecycle approval; 2) it set diversion requirements of 25 percent in 1995 and 50 percent in 2000; 3) it established a comprehensive statewide system of permitting, inspections, enforcement, and maintenance for solid waste facilities; and 4) it authorized local jurisdictions to impose fees based on the types or amounts of solid waste generated. Jurisdictions select and implement the combination of waste prevention, reuse, recycling, and composting programs that best meet the needs of their community while achieving the diversion requirements. SB 1016 passed in 2008 and introduced a per capita disposal measurement system that measures the 50 percent diversion requirement using a disposal measurement equivalent. In 2013, California’s statewide disposal was 30.2 million tons and the population was 38.0 million residents. This resulted in a per resident disposal rate of 4.4 pounds/resident/day calculated using SB 1016’s measurement system. This is slightly more than the 2012 rate of 4.3 pounds/resident/day, and decreased the per resident “diversion rate equivalent” to 65 percent.

The 50 percent diversion equivalent target for the City is a disposal rate of 10.1 pounds/persons/day (ppd) for residences and 9.3 ppd for businesses. According to the CalRecycle Website, the City’s 2013 calculated disposal rate was 5.7 ppd for residences and 6.2 ppd for businesses. The City is in compliance with AB 939 goals and uses several programs for diversion of solid waste from landfills including programs for composting, recycling, household hazardous waste (HHW), source reduction, and special waste materials such as construction and demolition debris to achieve the diversion goal. Concordia currently participates in waste diversion programs implemented by the City and, not related to the proposed project, is in the process of developing an expanded waste management and recycling program for the campus. The project site would continue to be served by Waste Management for the collection of solid waste and recyclables, and the

\[^4\] \( ([148,800 \text{ sf} + 71,231 \text{ sf}]) \times 3.89 \text{ lbs/sf} + (58,000 \text{ sf} \times 4.38 \text{ lbs/sf}) = 1,110,272 \text{ lbs or approximately 555 tons.} \)

\[^5\] \( (77.6 \text{ ksf} \times 32.85 \text{ cy/yr}) + (74 \text{ units} \times 7.3 \text{ cy/yr}) = 3,089.4 \text{ cy/yr.} \)
The proposed project would be required to comply with ongoing waste management programs/requirements implemented by the City, as well as comply with applicable regulations, as described above. In addition, the City of Irvine has standard conditions (Standard Conditions 2.24 and 3.7) which require solid waste recycling in compliance with Title 6, Division 7 of the Irvine Municipal code. The waste recycler is also required to meet or exceed the diversion requirements set forth in AB 939.

No impacts would result with the proposed project and no further evaluation of this issue is required in the Draft EIR.

**XVIII. MANDATORY FINDINGS OF SIGNIFICANCE**

<table>
<thead>
<tr>
<th>a)</th>
<th>Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?</th>
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<td>Potentially Significant Impact</td>
<td>Less than Significant Impact with Mitigation Incorporated</td>
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There are no historic resources located on campus; however, the proposed project may affect sensitive plant and animal species located on or adjacent to the project site. The Draft EIR will include an evaluation of the project’s potential effect on fish and wildlife species and historical resources.

<table>
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<tr>
<th>b)</th>
<th>Does the project have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)</th>
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</thead>
<tbody>
<tr>
<td>Potentially Significant Impact</td>
<td>Less than Significant Impact with Mitigation Incorporated</td>
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</table>

The potential for the proposed project to contribute to cumulatively considerable impacts will be evaluated in the Draft EIR.

<table>
<thead>
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<th>c)</th>
<th>Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?</th>
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</thead>
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<tr>
<td>Potentially Significant Impact</td>
<td>Less than Significant Impact with Mitigation Incorporated</td>
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<tr>
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With development of the project site, the proposed project could create environmental effects that will directly or indirectly cause adverse effects on human beings. These include, but are not limited to traffic, noise, lighting/glare and air quality. The Draft EIR will further analyze impacts on human beings.
REFERENCES


3. Site visit conducted by Julie A. Cho, Project Manager (BonTerra Psomas) on October 15, 2014.


8. Site visit by Lindsay Messett, Biologist (BonTerra Consulting) on March 19, 2015.


19. Environmental Data Resources Inc. (EDR). 2015 (April 2). *The EDR Radius Map™ Report with GeoCheck®, Concordia University Irvine, 1530 West Concordia, Irvine, CA 92612 (Inquiry Number 4252923.2s).* Milford, CT: EDR.


22. Concordia University, Irvine. 2015 (February). *Concordia University, Irvine Update to Campus Master Build-Out Plan (Conditional Use Permit 00612052-PCPU).* Irvine, CA: Concordia University, Irvine.


30. OC Waste & Recycling. 2015 (March 30). Personal communication. Emails between J. Arnau, CEQA Manager (OC Waste & Recycling) and J. Cho, Project Manager (BonTerra Psomas) regarding landfill capacity and with an attachment entitled "Solid waste generation rates.docx".


INITIAL STUDY PREPARERS/CONTRIBUTORS

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Lindsay Messett, Senior Biologist  
Julia R. Black, Technical Editor  
Jon Zimmer, Graphics Specialist  
Sheryl A. Kristal, Word Processor
Appendix A

EDR Report
Concordia University Irvine
1530 West Concordia
Irvine, CA  92612

Inquiry Number: 4252923.2s
April 03, 2015
Thank you for your business.
Please contact EDR at 1-800-352-0050 with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA’s Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1530 WEST CONCORDIA
ORANGE County, CA 92612

COORDINATES

Latitude (North): 33.6535000 - 33° 39’ 12.60”
Longitude (West): 117.8106000 - 117° 48’ 38.16”
Universal Tranverse Mercator: Zone 11
UTM X (Meters): 424837.6
UTM Y (Meters): 3723839.2
Elevation: 182 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 33117-F7 TUSTIN, CA
Most Recent Revision: 1981

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20120505, 20120527
Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

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<th>Site</th>
<th>Database(s)</th>
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</table>
DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR’s search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list
NPL.................. National Priority List
Proposed NPL........... Proposed National Priority List Sites
NPL LIENS.............. Federal Superfund Liens

Federal Delisted NPL site list
Delisted NPL............ National Priority List Deletions

Federal CERCLIS list
CERCLIS................ Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY...... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List
CERC-NFRAP............. CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list
CORRACTS............... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list
RCRA-TSDF.............. RCRA - Treatment, Storage and Disposal

Federal RCRA generators list
RCRA-LQG.............. RCRA - Large Quantity Generators
RCRA-SQG.............. RCRA - Small Quantity Generators
RCRA-CESQG............ RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries
US ENG CONTROLS........ Engineering Controls Sites List
US INST CONTROL........ Sites with Institutional Controls
LUCIS................... Land Use Control Information System

Federal ERNS list
ERNS.................... Emergency Response Notification System
State- and tribal - equivalent NPL  
RESPONSE…………………… State Response Sites

State- and tribal - equivalent CERCLIS  
ENVIROSTOR……………… EnviroStor Database

State and tribal landfill and/or solid waste disposal site lists  
SWF/LF…………………… Solid Waste Information System

State and tribal leaking storage tank lists  
LUST…………………… Geotracker’s Leaking Underground Fuel Tank Report  
SLIC…………………… Statewide SLIC Cases  
INDIAN LUST……………… Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists  
UST…………………… Active UST Facilities  
AST…………………… Aboveground Petroleum Storage Tank Facilities  
INDIAN UST……………… Underground Storage Tanks on Indian Land  
FEMA UST……………… Underground Storage Tank Listing

State and tribal voluntary cleanup sites  
INDIAN VCP……………… Voluntary Cleanup Priority Listing  
VCP…………………… Voluntary Cleanup Program Properties

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists  
US BROWNFIELDS……. A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites  
ODI………………………. Open Dump Inventory  
DEBRIS REGION 9………. Torres Martinez Reservation Illegal Dump Site Locations  
SWRCY…………………… Recycler Database  
HAULERS………………… Registered Waste Tire Haulers Listing  
INDIAN ODI……………… Report on the Status of Open Dumps on Indian Lands  
WMUDS/SWAT………… Waste Management Unit Database

Local Lists of Hazardous waste / Contaminated Sites  
US CDL…………………… Clandestine Drug Labs  
HIST Cal-Sites……………. Historical CalSites Database  
SCH……………………… School Property Evaluation Program  
Toxic Pits…………………. Toxic Pits Cleanup Act Sites  
CDL……………………… Clandestine Drug Labs  
US HIST CDL……………. National Clandestine Laboratory Register
**EXECUTIVE SUMMARY**

### Local Lists of Registered Storage Tanks
- CA FID UST: Facility Inventory Database
- HIST UST: Hazardous Substance Storage Container Database
- SWEEPS UST: SWEEPS UST Listing

### Local Land Records
- LIENS 2: CERCLA Lien Information
- LIENS: Environmental Liens Listing
- DEED: Deed Restriction Listing

### Records of Emergency Release Reports
- HMIRS: Hazardous Materials Information Reporting System
- LDS: Land Disposal Sites Listing
- MCS: Military Cleanup Sites Listing
- Orange Co. Industrial Site: List of Industrial Site Cleanups
- SPILLS 90: SPILLS 90 data from FirstSearch

### Other Ascertainable Records
- RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
- DOT OPS: Incident and Accident Data
- DOD: Department of Defense Sites
- FUDS: Formerly Used Defense Sites
- CONSENT: Superfund (CERCLA) Consent Decrees
- ROD: Records Of Decision
- UMTA: Uranium Mill Tailings Sites
- US MINES: Mines Master Index File
- TRIS: Toxic Chemical Release Inventory System
- TSCA: Toxic Substances Control Act
- FTTS: FIFRA/TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
- HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
- ICIS: Integrated Compliance Information System
- PADS: PCB Activity Database System
- RADINFO: Radiation Information Database
- FINDS: Facility Index System/Facility Registry System
- RAATS: RCRA Administrative Action Tracking System
- RMP: Risk Management Plans
- CA BOND EXP. PLAN: Bond Expenditure Plan
- NPDES: NPDES Permits Listing
- UIC: UIC Listing
- Cortese: "Cortese" Hazardous Waste & Substances Sites List
- HIST CORTESE: Hazardous Waste & Substance Site List
- CUPA Listings: CUPA Resources List
- Notify 65: Proposition 65 Records
- DRYCLEANERS: Cleaner Facilities
- WIP: Well Investigation Program Case List
- ENF: Enforcement Action Listing
- EMI: Emissions Inventory Data
EXECUTIVE SUMMARY

INDIAN RESERV, Indian Reservations
SCRD DRYCLEANERS, State Coalition for Remediation of Drycleaners Listing
COAL ASH EPA, Coal Combustion Residues Surface Impoundments List
US AIRS, Aerometric Information Retrieval System Facility Subsystem
MWMP, Medical Waste Management Program Listing
WDS, Waste Discharge System
Financial Assurance, Financial Assurance Information Listing
PROC, Certified Processors Database
HWT, Registered Hazardous Waste Transporter Database
HWP, EnviroStor Permitted Facilities Listing
COAL ASH DOE, Steam-Electric Plant Operation Data
2020 COR ACTION, 2020 Corrective Action Program List
PRP, Potentially Responsible Parties
LEAD SMELTERS, Lead Smelter Sites
EPA WATCH LIST, EPA WATCH LIST
US FIN ASSUR, Financial Assurance Information
PCB TRANSFORMER, PCB Transformer Registration Database

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records
EDR MGP, EDR Proprietary Manufactured Gas Plants
EDR US Hist Auto Stat, EDR Exclusive Historic Gas Stations
EDR US Hist Cleaners, EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives
RGA LF, Recovered Government Archive Solid Waste Facilities List
RGA LUST, Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

Unmappable (orphan) sites are not considered in the foregoing analysis.
There were no unmapped sites in this report.
This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.
### MAP FINDINGS SUMMARY

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<th>Target Property</th>
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## MAP FINDINGS SUMMARY

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### State and tribal registered storage tank lists

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### State and tribal voluntary cleanup sites

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### ADDITIONAL ENVIRONMENTAL RECORDS

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</table>
## MAP FINDINGS SUMMARY

<table>
<thead>
<tr>
<th>Database</th>
<th>Search Distance (Miles)</th>
<th>Target Property</th>
<th>&lt; 1/8</th>
<th>1/8 - 1/4</th>
<th>1/4 - 1/2</th>
<th>1/2 - 1</th>
<th>&gt; 1</th>
<th>Total Plotted</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA WATCH LIST</td>
<td>TP</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
<td>0</td>
</tr>
<tr>
<td>US FIN ASSUR</td>
<td>TP</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
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<tr>
<td>PCB TRANSFORMER</td>
<td>TP</td>
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<td>NR</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
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</tr>
</tbody>
</table>

### EDR HIGH RISK HISTORICAL RECORDS

**EDR Exclusive Records**

- **EDR MGP**: 1.000, 0 0 0 0 0 NR 0
- **EDR US Hist Auto Stat**: 0.250, 0 0 NR NR NR 0
- **EDR US Hist Cleaners**: 0.250, 0 0 NR NR NR 0

### EDR RECOVERED GOVERNMENT ARCHIVES

**Exclusive Recovered Govt. Archives**

- **RGA LF**: TP, NR NR NR NR NR NR 0
- **RGA LUST**: TP, NR NR NR NR NR NR 0

**NOTES:**
- TP = Target Property
- NR = Not Requested at this Search Distance
- Sites may be listed in more than one database
<table>
<thead>
<tr>
<th>Site 1 of 3 in cluster A</th>
<th>Site 2 of 3 in cluster A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HAZNET</strong></td>
<td><strong>HAZNET</strong></td>
</tr>
<tr>
<td><strong>envid:</strong> S112854382</td>
<td><strong>envid:</strong> S113797487</td>
</tr>
<tr>
<td><strong>Year:</strong> 1995</td>
<td><strong>Year:</strong> 2013</td>
</tr>
<tr>
<td><strong>GEPAID:</strong> CAC000935984</td>
<td><strong>GEPAID:</strong> CAL000311504</td>
</tr>
<tr>
<td><strong>Contact:</strong> Not reported</td>
<td><strong>Contact:</strong> ROSS KROENERT-DIR UNIV SVCS</td>
</tr>
<tr>
<td><strong>Telephone:</strong> 0000000000</td>
<td><strong>Telephone:</strong> 9492143142</td>
</tr>
<tr>
<td><strong>Mailing Name:</strong> Not reported</td>
<td><strong>Mailing Name:</strong> Not reported</td>
</tr>
<tr>
<td><strong>Mailing Address:</strong> 1530 CONCORDIA WEST</td>
<td><strong>Mailing Address:</strong> 1530 CONCORDIA</td>
</tr>
<tr>
<td><strong>Gen County:</strong> Not reported</td>
<td><strong>Gen County:</strong> Orange</td>
</tr>
<tr>
<td><strong>TSD EPA ID:</strong> CAD008252405</td>
<td><strong>TSD EPA ID:</strong> CAD981696420</td>
</tr>
<tr>
<td><strong>TSD County:</strong> Not reported</td>
<td><strong>TSD County:</strong> Los Angeles</td>
</tr>
<tr>
<td><strong>Waste Category:</strong> Aqueous solution with total organic residues 10 percent or more</td>
<td><strong>Waste Category:</strong> Not reported</td>
</tr>
<tr>
<td><strong>Disposal Method:</strong> Recycler</td>
<td><strong>Disposal Method:</strong> Storage, Bulkng, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)</td>
</tr>
<tr>
<td><strong>Tons:</strong> .2293</td>
<td><strong>Tons:</strong> 1.2927</td>
</tr>
<tr>
<td><strong>Facility County:</strong> Orange</td>
<td><strong>Facility County:</strong> Orange</td>
</tr>
</tbody>
</table>

**A1**

**CONCORDIA UNIVERSITY**

**Target**

1530 CONCORDIA WEST

**Property**

IRVINE, CA 92715

**EDR ID Number**

S112854382

**EDR ID Number**

N/A

**Site**

1530 CONCORDIA WEST

**Site**

1530 CONCORDIA WEST

**Distance**

Actual: 182 ft.

**Database(s)**

HAZNET

**EPA ID Number**

S112854382

**EPA ID Number**

N/A

**Site 1 of 3 in cluster A**

**Actual:** 182 ft.

**HAZNET:**

**envid:** S112854382

**Year:** 1997

**GEPAID:** CAC000935984

**Contact:** Not reported

**Telephone:** 0000000000

**Mailing Name:** Not reported

**Mailing Address:** 1530 CONCORDIA WEST

**Gen County:** Not reported

**TSD EPA ID:** CAD008252405

**TSD County:** Not reported

**Waste Category:** Aqueous solution with total organic residues 10 percent or more

**Disposal Method:** Recycler

**Tons:** .2293

**Facility County:** Orange

**envid:** S112854382

**Year:** 1997

**GEPAID:** CAC000935984

**Contact:** Not reported

**Telephone:** 0000000000

**Mailing Name:** Not reported

**Mailing Address:** 1530 CONCORDIA WEST

**Gen County:** Not reported

**TSD EPA ID:** CAD008252405

**TSD County:** Not reported

**Waste Category:** Aqueous solution with total organic residues 10 percent or more

**Disposal Method:** Recycler

**Tons:** .2293

**Facility County:** Orange

**A2**

**CONCORDIA UNIVERSITY**

**Target**

1530 CONCORDIA

**Property**

IRVINE, CA 92612

**EDR ID Number**

S113797487

**EDR ID Number**

N/A

**Site**

1530 CONCORDIA

**Site**

1530 CONCORDIA

**Distance**

Actual: 182 ft.

**Database(s)**

HAZNET

**EPA ID Number**

S113797487

**EPA ID Number**

N/A

**Site 2 of 3 in cluster A**

**Actual:** 182 ft.

**HAZNET:**

**envid:** S113797487

**Year:** 2013

**GEPAID:** CAL000311504

**Contact:** ROSS KROENERT-DIR UNIV SVCS

**Telephone:** 9492143142

**Mailing Name:** Not reported

**Mailing Address:** 1530 CONCORDIA

**Gen County:** Orange

**TSD EPA ID:** CAD981696420

**TSD County:** Los Angeles

**Waste Category:** Not reported

**Disposal Method:** Storage, Bulkng, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
**CONCORDIA UNIVERSITY (Continued)**

<table>
<thead>
<tr>
<th>Tons:</th>
<th>0.399</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility County:</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

**(envid: S113797487)**

**Year:** 2013  
**GEPAID:** CAL000311504  
**Contact:** ROSS KROENERT-DIR UNIV SVCS  
**Telephone:** 9492143142  
**Mailing Name:** Not reported  
**Mailing Address:** 1530 CONCORDIA  
**Mailing City, St, Zip:** IRVINE, CA 926123203  
**Gen County:** Orange  
**TSD County:** 99  
**Waste Category:** Not reported  
**Disposal Method:** Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery  
**Tons:** 0.006  
**Facility County:** Not reported

**(envid: S113797487)**

**Year:** 2013  
**GEPAID:** CAL000311504  
**Contact:** ROSS KROENERT-DIR UNIV SVCS  
**Telephone:** 9492143142  
**Mailing Name:** Not reported  
**Mailing Address:** 1530 CONCORDIA  
**Mailing City, St, Zip:** IRVINE, CA 926123203  
**Gen County:** Orange  
**TSD County:** 99  
**Waste Category:** Not reported  
**Disposal Method:** Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery  
**Tons:** 0.08584  
**Facility County:** Not reported

**(envid: S113797487)**

**Year:** 2013  
**GEPAID:** CAL000311504  
**Contact:** ROSS KROENERT-DIR UNIV SVCS  
**Telephone:** 9492143142  
**Mailing Name:** Not reported  
**Mailing Address:** 1530 CONCORDIA  
**Mailing City, St, Zip:** IRVINE, CA 926123203  
**Gen County:** Orange  
**TSD County:** 99  
**Waste Category:** Not reported  
**Disposal Method:** Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery  
**Tons:** 0.007  
**Facility County:** Not reported

**(envid: S113797487)**

**Year:** 2013  
**GEPAID:** CAL000311504
## Map Findings

<table>
<thead>
<tr>
<th>EDR ID Number</th>
<th>Site</th>
<th>Database(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Site 3 of 3 in cluster A

**Concordia University (Continued)**

- **Contact:** ROSS KROENERT-DIR UNIV SVCS
- **Telephone:** 9492143142
- **Mailing Name:** Not reported
- **Mailing Address:** 1530 CONCORDIA
- **Mailing City,St,Zip:** IRVINE, CA 926123203
- **Gen County:** Orange
- **TSD EPA ID:** CAD028409019
- **TSD County:** Los Angeles
- **Waste Category:** Not reported
- **Disposal Method:** Storage, Bulking, And/Or Transfer Off Site--No Treatment/Recovery (H010-H129) Or (H131-H135)
- **Tons:** 0.185
- **Facility County:** Not reported

[Click this hyperlink](#) while viewing on your computer to access
14 additional CA_HAZNET: record(s) in the EDR Site Report.

### CHMIRS Information

**Target:** 1530 CONCORDIA WEST (FOUNDERS HALL)

- **Property:** IRVINE, CA 92612

- **Actual:** 182 ft.

- **CHMIRS:**
  - **OES Incident Number:** '13-3781
  - **OES notification:** 06/21/2013
  - **OES Date:** Not reported
  - **OES Time:** Not reported
  - **Incident Date:** 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 Personnel # Of Decontaminated:** Not reported
  - **Responding Agency Personnel # Of Injuries:** Not reported
  - **Responding Agency Personnel # 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:** School
- **Cleanup By:** Contractor

---

**TC4252923.2s Page 10**
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Lbs.
Other: Not reported
Date/Time: 1100
Year: 2013
Agency: Concordia University Irvine
Incident Date: 6/21/2013
Admin Agency: Orange County Emergency Management Division
Amount: Not reported
Contained: Yes
Site Type: Not reported
E Date: Not reported
Substance: Mercury - Metallic, Liquid
Quantity Released: 16
Unknown: Not reported
Substance #2: Not reported
Substance #3: Not reported
Evacuations: 2
Number of Injuries: Not reported
Number of Fatalities: Not reported
#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
Fats: Not reported
Comments: Not reported
Description: Burglary involving vandalism caused the release, material flowed onto the floor inside a structure, two soles were evacuated at 1100 hrs and will be allowed to return 6/24 at 0800 hrs, RP and FD are handling containment and contractor is performing clean up.
<table>
<thead>
<tr>
<th>City</th>
<th>EDR ID</th>
<th>Site Name</th>
<th>Site Address</th>
<th>Zip</th>
<th>Database(s)</th>
</tr>
</thead>
</table>

NO SITES FOUND
To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

| Date of Government Version: 12/16/2014 | Source: EPA |
| Date Data Arrived at EDR: 01/08/2015 | Telephone: N/A |
| Date Made Active in Reports: 02/09/2015 | Last EDR Contact: 01/08/2015 |
| Number of Days to Update: 32 | Next Scheduled EDR Contact: 04/20/2015 |

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: 12/16/2014 | Source: EPA |
| Date Data Arrived at EDR: 01/08/2015 | Telephone: N/A |
| Date Made Active in Reports: 02/09/2015 | Last EDR Contact: 01/08/2015 |
| Number of Days to Update: 32 | Next Scheduled EDR Contact: 04/20/2015 |

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 | Source: EPA |
| Date Data Arrived at EDR: 02/02/1994 | Telephone: 202-564-4267 |
| Date Made Active in Reports: 03/30/1994 | Last EDR Contact: 08/15/2011 |
| Number of Days to Update: 56 | Next Scheduled EDR Contact: 11/28/2011 |

Data Release Frequency: No Update Planned
Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/16/2014
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32
Source: EPA
Telephone: N/A
Last EDR Contact: 01/08/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
CERCLIS 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94
Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 04/02/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Quarterly

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: 07/21/2014
Date Data Arrived at EDR: 10/07/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 13
Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/09/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94
Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 04/02/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.
### Federal RCRA non-CORRACTS TSD facilities list

**RCRA-TSDF:** RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

<table>
<thead>
<tr>
<th>Date of Government Version: 12/09/2014</th>
<th>Source: Environmental Protection Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 12/29/2014</td>
<td>Telephone: (415) 495-8895</td>
</tr>
<tr>
<td>Date Made Active in Reports: 01/29/2015</td>
<td>Last EDR Contact: 03/31/2015</td>
</tr>
<tr>
<td>Number of Days to Update: 31</td>
<td>Next Scheduled EDR Contact: 07/13/2015</td>
</tr>
<tr>
<td></td>
<td>Data Release Frequency: Quarterly</td>
</tr>
</tbody>
</table>

### Federal RCRA generators list

**RCRA-LQG:** RCRA - Large Quantity Generators

RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

<table>
<thead>
<tr>
<th>Date of Government Version: 12/09/2014</th>
<th>Source: Environmental Protection Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 12/29/2014</td>
<td>Telephone: (415) 495-8895</td>
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<tr>
<td>Date Made Active in Reports: 01/29/2015</td>
<td>Last EDR Contact: 03/31/2015</td>
</tr>
<tr>
<td>Number of Days to Update: 31</td>
<td>Next Scheduled EDR Contact: 07/13/2015</td>
</tr>
<tr>
<td></td>
<td>Data Release Frequency: Quarterly</td>
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</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Date of Government Version: 12/09/2014</th>
<th>Source: Environmental Protection Agency</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>Date Made Active in Reports: 01/29/2015</td>
<td>Last EDR Contact: 03/31/2015</td>
</tr>
<tr>
<td>Number of Days to Update: 31</td>
<td>Next Scheduled EDR Contact: 07/13/2015</td>
</tr>
<tr>
<td></td>
<td>Data Release Frequency: Quarterly</td>
</tr>
</tbody>
</table>

**RCRA-CESQG:** RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

<table>
<thead>
<tr>
<th>Date of Government Version: 12/09/2014</th>
<th>Source: Environmental Protection Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 12/29/2014</td>
<td>Telephone: (415) 495-8895</td>
</tr>
<tr>
<td>Date Made Active in Reports: 01/29/2015</td>
<td>Last EDR Contact: 03/31/2015</td>
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<tr>
<td>Number of Days to Update: 31</td>
<td>Next Scheduled EDR Contact: 07/13/2015</td>
</tr>
<tr>
<td></td>
<td>Data Release Frequency: Varies</td>
</tr>
</tbody>
</table>
Federal institutional controls / engineering controls registries

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: 09/18/2014
Date Data Arrived at EDR: 09/19/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 31
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Varies

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls
A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 09/18/2014
Date Data Arrived at EDR: 09/19/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 31
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Varies

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Varies

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: 12/03/2014
Date Data Arrived at EDR: 12/12/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 48
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Varies

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
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: 09/29/2014
Date Data Arrived at EDR: 09/30/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 37
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Annually

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Annually

State- and tribal - equivalent NPL
RESPONSE: State Response Sites
Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 03/11/2015
Date Data Arrived at EDR: 03/12/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 6
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS
ENVIROSTOR: EnviroStor Database
The Department of Toxic Substances Control’s (DTSC’s) Site Mitigation and Brownfields Reuse Program’s (SMBRP’s) EnviroStor database identifies 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.

State and tribal landfill and/or solid waste disposal site lists
SWF/LF (SWIS): Solid Waste Information System
Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

State and tribal leaking storage tank lists
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.

LUST REG 5: Leaking Underground Storage Tank Database

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.
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  
Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003  
Telephone: 805-542-4786
Date Made Active in Reports: 06/02/2003  
Last EDR Contact: 07/18/2011
Number of Days to Update: 14  
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Date of Government Version: 09/30/2004  
Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004  
Telephone: 510-622-2433
Date Made Active in Reports: 11/19/2004  
Last EDR Contact: 09/19/2011
Number of Days to Update: 30  
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board’s LUST database.
Date of Government Version: 02/01/2001  
Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001  
Telephone: 707-570-3769
Date Made Active in Reports: 03/29/2001  
Last EDR Contact: 08/01/2011
Number of Days to Update: 29  
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: Geotracker’s Leaking Underground Fuel Tank Report
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.
Date of Government Version: 03/13/2015  
Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/18/2015  
Telephone: see region list
Date Made Active in Reports: 03/24/2015  
Last EDR Contact: 03/18/2015
Number of Days to Update: 6  
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Date of Government Version: 06/07/2005  
Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Date Data Arrived at EDR: 06/07/2005  
Telephone: 760-241-7365
Date Made Active in Reports: 06/29/2005  
Last EDR Contact: 09/12/2011
Number of Days to Update: 22  
Next Scheduled EDR Contact: 12/26/2011
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  
Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004  
Telephone: 760-776-8943
Date Made Active in Reports: 03/24/2004  
Last EDR Contact: 08/01/2011
Number of Days to Update: 27  
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned
LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board’s LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41
Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 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

SLIC: Statewide SLIC Cases
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: 03/13/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 6
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/18/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18
Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30
Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

**SLIC REG 4:** Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

- Date of Government Version: 11/17/2004
- Source: Region Water Quality Control Board Los Angeles Region (4)
- Telephone: 213-576-6600
- Last EDR Contact: 07/01/2011
- Next Scheduled EDR Contact: 10/17/2011
- Data Release Frequency: Varies

**SLIC REG 5:** Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

- Date of Government Version: 04/01/2005
- Source: Regional Water Quality Control Board Central Valley Region (5)
- Telephone: 916-464-3291
- Last EDR Contact: 09/12/2011
- Next Scheduled EDR Contact: 12/26/2011
- Data Release Frequency: Semi-Annually

**SLIC REG 6V:** Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

- Date of Government Version: 05/24/2005
- Source: Regional Water Quality Control Board, Victorville Branch
- Telephone: 619-241-6583
- Last EDR Contact: 08/15/2011
- Next Scheduled EDR Contact: 11/28/2011
- Data Release Frequency: Semi-Annually

**SLIC REG 6L:** SLIC Sites

- Date of Government Version: 09/07/2004
- 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

- Date of Government Version: 11/24/2004
- 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

- Date of Government Version: 04/03/2008
- Source: California Region Water Quality Control Board Santa Ana Region (8)
- Telephone: 951-782-3298
- Last EDR Contact: 09/12/2011
- Next Scheduled EDR Contact: 12/26/2011
- Data Release Frequency: Semi-Annually
SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land


Date of Government Version: 02/03/2015
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 29

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

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: 01/28/2015
Date Data Arrived at EDR: 01/30/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 42

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
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: 01/30/2015
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 32

Source: EPA, Region 5
Telephone: 312-866-7439
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
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: 01/23/2015
Date Data Arrived at EDR: 02/10/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 31

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
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: 09/30/2014
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Semi-Annually
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: 02/01/2013  
Date Data Arrived at EDR: 05/01/2013  
Date Made Active in Reports: 11/01/2013  
Number of Days to Update: 184  
Next Scheduled EDR Contact: 05/11/2015  
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada
Date of Government Version: 01/08/2015  
Date Data Arrived at EDR: 01/08/2015  
Date Made Active in Reports: 02/09/2015  
Number of Days to Update: 32  
Next Scheduled EDR Contact: 05/11/2015  
Data Release Frequency: Quarterly

State and tribal registered storage tank lists

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies.
Date of Government Version: 03/13/2015  
Date Data Arrived at EDR: 03/18/2015  
Date Made Active in Reports: 03/26/2015  
Number of Days to Update: 8  
Next Scheduled EDR Contact: 06/29/2015  
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.
Date of Government Version: 08/01/2009  
Date Data Arrived at EDR: 09/10/2009  
Date Made Active in Reports: 10/01/2009  
Number of Days to Update: 21  
Next Scheduled EDR Contact: 04/13/2015  
Data Release Frequency: Quarterly

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: 02/01/2013  
Date Data Arrived at EDR: 05/01/2013  
Date Made Active in Reports: 01/27/2014  
Number of Days to Update: 271  
Next Scheduled EDR Contact: 05/11/2015  
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: 09/30/2014  
Date Data Arrived at EDR: 03/03/2015  
Date Made Active in Reports: 03/13/2015  
Number of Days to Update: 10  
Next Scheduled EDR Contact: 05/11/2015  
Data Release Frequency: Semi-Annually
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: 01/30/2015  
Source: EPA Region 5  
Telephone: 312-886-6136  
Last EDR Contact: 01/26/2015  
Next Scheduled EDR Contact: 05/11/2015  
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: 01/23/2015  
Source: EPA Region 6  
Telephone: 214-665-7591  
Last EDR Contact: 01/26/2015  
Next Scheduled EDR Contact: 05/11/2015  
Data Release Frequency: Semi-Annually

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: 09/23/2014  
Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 01/26/2015  
Next Scheduled EDR Contact: 05/11/2015  
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: 01/29/2015  
Source: EPA Region 8  
Telephone: 303-312-6137  
Last EDR Contact: 01/26/2015  
Next Scheduled EDR Contact: 05/11/2015  
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/14/2014  
Source: EPA Region 9  
Telephone: 415-972-3368  
Last EDR Contact: 01/26/2015  
Next Scheduled EDR Contact: 05/11/2015  
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 02/03/2015  
Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 01/26/2015  
Next Scheduled EDR Contact: 05/11/2015  
Data Release Frequency: Quarterly
GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.
Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/12/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

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: 09/29/2014
Date Data Arrived at EDR: 10/01/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 36
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/02/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.
Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

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: 03/11/2015
Date Data Arrived at EDR: 03/12/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 6
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/12/2015
Next Scheduled EDR Contact: 05/18/2015
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: 12/22/2014
Date Data Arrived at EDR: 12/22/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 38
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/24/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites
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: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.
Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.
Date of Government Version: 03/16/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/26/2015
Number of Days to Update: 8
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/18/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.
Date of Government Version: 12/01/2014
Date Data Arrived at EDR: 12/01/2014
Date Made Active in Reports: 01/23/2015
Number of Days to Update: 53
Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
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: 02/02/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Varies

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: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: No Update Planned
Local Lists of Hazardous waste / Contaminated Sites

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: 02/25/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/03/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Quarterly

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: 03/11/2015
Date Data Arrived at EDR: 03/12/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 6
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/12/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Quarterly

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

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: 12/31/2014
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 8
Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 03/09/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Varies
US HIST CDL: National Clandestine Laboratory Register
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: 02/25/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/03/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

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

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009
Date Data Arrived at EDR: 09/23/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county
source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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

Local Land Records

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.
LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

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.

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.

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).

LDS: Land Disposal Sites Listing
The Land Disposal program regulates waste discharge to land for treatment, storage and disposal in waste management units.
MCS: Military Cleanup Sites Listing
The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 03/13/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 6
Source: State Water Resources Control Board
Telephone: 866-480-1028
Next Scheduled EDR Contact: 06/29/2015
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
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: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31
Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data
Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/03/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Varies

DOD: Department of Defense Sites
This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62
Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/15/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Semi-Annually

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.
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.

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.

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.

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.

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.

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.
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.

FTTS INSPI: 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.

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.

HIST FTTS INSPI: 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.

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.
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.

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.

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.

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.

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).
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.

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.

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.

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.

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.
NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.
Date of Government Version: 03/12/2015
Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/13/2015
Telephone: 916-445-9379
Date Made Active in Reports: 03/24/2015
Last EDR Contact: 03/13/2015
Number of Days to Update: 11
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Quarterly

COTERESE: "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: 12/29/2014
Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 12/29/2014
Telephone: 916-323-3400
Date Made Active in Reports: 02/03/2015
Last EDR Contact: 03/31/2015
Number of Days to Update: 36
Next Scheduled EDR Contact: 07/13/2015
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 [CAL-SITES]. This listing is no longer updated by the
state agency.
Date of Government Version: 04/01/2001
Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/22/2009
Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009
Last EDR Contact: 01/22/2009
Number of Days to Update: 76
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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: 10/21/1993
Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993
Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993
Last EDR Contact: 03/23/2015
Number of Days to Update: 18
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: No Update Planned

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 upholstery cleaning; industrial launderers; laundry and
garment services.
Date of Government Version: 02/18/2015
Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 02/20/2015
Telephone: 916-327-4498
Date Made Active in Reports: 03/12/2015
Last EDR Contact: 03/09/2015
Number of Days to Update: 20
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Annually

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
Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/21/2009
Telephone: 213-576-6726
Date Made Active in Reports: 08/03/2009
Last EDR Contact: 03/30/2015
Number of Days to Update: 13
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies
ENF: Enforcement Action Listing

Date of Government Version: 01/26/2015
Date Data Arrived at EDR: 01/28/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 29

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
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: 12/31/2013
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/19/2014
Number of Days to Update: 35

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/16/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 03/25/2014
Date Made Active in Reports: 04/28/2014
Number of Days to Update: 34

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/27/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Varies

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: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/15/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Semi-Annually

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: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/18/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands
WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

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.

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: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/13/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Varies

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/16/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 6

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/18/2015
Next Scheduled EDR Contact: 05/29/2015
Data Release Frequency: Quarterly

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/30/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information

Date of Government Version: 02/02/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 25

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/17/2015
Date Data Arrived at EDR: 02/20/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 11

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information
All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/09/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Quarterly

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/13/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Varies
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: 01/16/2015  Source: Department of Public Health
Date Data Arrived at EDR: 03/10/2015  Telephone: 916-558-1784
Date Made Active in Reports: 03/18/2015  Last EDR Contact: 03/10/2015
Number of Days to Update: 8  Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Varies

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005  Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009  Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009  Last EDR Contact: 01/15/2015
Number of Days to Update: 76  Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Varies

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: 01/12/2015  Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/13/2015  Telephone: 916-440-7145
Date Made Active in Reports: 02/03/2015  Last EDR Contact: 01/13/2015
Number of Days to Update: 21  Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Quarterly

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/23/2015  Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/24/2015  Telephone: 916-323-3400
Date Made Active in Reports: 03/03/2015  Last EDR Contact: 02/24/2015
Number of Days to Update: 7  Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Quarterly

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: 10/16/2014  Source: EPA
Date Data Arrived at EDR: 10/31/2014  Telephone: 202-564-2496
Date Made Active in Reports: 11/17/2014  Last EDR Contact: 03/30/2015
Number of Days to Update: 17  Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/16/2014  Source: EPA
Date Data Arrived at EDR: 10/31/2014  Telephone: 202-564-2496
Date Made Active in Reports: 11/17/2014  Last EDR Contact: 03/30/2015
Number of Days to Update: 17  Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: 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  Source: EDR, Inc.
Date Data Arrived at EDR: N/A  Telephone: N/A
Date Made Active in Reports: N/A  Last EDR Contact: N/A
Number of Days to Update: N/A  Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas 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  Source: EDR, Inc.
Date Data Arrived at EDR: N/A  Telephone: N/A
Date Made Active in Reports: N/A  Last EDR Contact: N/A
Number of Days to Update: N/A  Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry 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  Source: EDR, Inc.
Date Data Arrived at EDR: N/A  Telephone: N/A
Date Made Active in Reports: N/A  Last EDR Contact: N/A
Number of Days to Update: N/A  Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

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

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

COUNTY RECORDS

ALAMEDA COUNTY:

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: 01/21/2015  
Date Data Arrived at EDR: 01/28/2015  
Date Made Active in Reports: 02/26/2015  
Number of Days to Update: 29  
Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 03/30/2015  
Next Scheduled EDR Contact: 07/13/2015  
Data Release Frequency: Semi-Annually

Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 01/21/2015  
Date Data Arrived at EDR: 01/28/2015  
Date Made Active in Reports: 02/26/2015  
Number of Days to Update: 29  
Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 03/30/2015  
Next Scheduled EDR Contact: 07/13/2015  
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List
Cupa Facility List

Date of Government Version: 03/09/2015  
Date Data Arrived at EDR: 03/24/2015  
Date Made Active in Reports: 03/31/2015  
Number of Days to Update: 7  
Source: Amador County Environmental Health  
Telephone: 209-223-6439  
Last EDR Contact: 03/23/2015  
Next Scheduled EDR Contact: 06/22/2015  
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing
Cupa facility list.
CALVERAS COUNTY:

CUPA Facility Listing

Date of Government Version: 03/03/2015
Date Data Arrived at EDR: 03/05/2015
Date Made Active in Reports: 03/10/2015
Number of Days to Update: 5
Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List

Date of Government Version: 06/11/2014
Date Data Arrived at EDR: 06/13/2014
Date Made Active in Reports: 07/07/2014
Number of Days to Update: 24
Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/25/2015
Date Made Active in Reports: 03/04/2015
Number of Days to Update: 7
Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 02/02/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/25/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 6
Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List

CUPA facility list.

TC4252923.2s   Page GR-29
### FRENSNO COUNTY:

**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.

<table>
<thead>
<tr>
<th>Date of Government Version: 12/31/2014</th>
<th>Source: Dept. of Community Health</th>
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<tbody>
<tr>
<td>Date Data Arrived at EDR: 01/16/2015</td>
<td>Telephone: 559-445-3271</td>
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<td>Date Made Active in Reports: 02/05/2015</td>
<td>Last EDR Contact: 01/05/2015</td>
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<td>Number of Days to Update: 20</td>
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<td>Data Release Frequency: Semi-Annually</td>
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### HUMBOLDT COUNTY:

**CUPA Facility List**

CUPA facility list.

<table>
<thead>
<tr>
<th>Date of Government Version: 03/11/2015</th>
<th>Source: Humboldt County Environmental Health</th>
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<tbody>
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<td>Date Made Active in Reports: 03/24/2015</td>
<td>Last EDR Contact: 02/23/2015</td>
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<td>Number of Days to Update: 11</td>
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<tr>
<td>Data Release Frequency: Varies</td>
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### IMPERIAL COUNTY:

**CUPA Facility List**

Cupa facility list.

<table>
<thead>
<tr>
<th>Date of Government Version: 02/10/2015</th>
<th>Source: San Diego Border Field Office</th>
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</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 02/12/2015</td>
<td>Telephone: 760-339-2777</td>
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<tr>
<td>Date Made Active in Reports: 03/03/2015</td>
<td>Last EDR Contact: 02/09/2015</td>
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<td>Number of Days to Update: 19</td>
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### INYO COUNTY:

**CUPA Facility List**

Cupa facility list.

<table>
<thead>
<tr>
<th>Date of Government Version: 09/10/2013</th>
<th>Source: Inyo County Environmental Health Services</th>
</tr>
</thead>
<tbody>
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<td>Date Data Arrived at EDR: 09/11/2013</td>
<td>Telephone: 760-878-0238</td>
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<tr>
<td>Date Made Active in Reports: 10/14/2013</td>
<td>Last EDR Contact: 02/23/2015</td>
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<tr>
<td>Number of Days to Update: 33</td>
<td>Next Scheduled EDR Contact: 06/08/2015</td>
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<tr>
<td>Data Release Frequency: Varies</td>
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</tbody>
</table>

### KERN COUNTY:

**CUPA Facility List**

Cupa facility list.
Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.
- Date of Government Version: 07/22/2014
- Date Data Arrived at EDR: 11/12/2014
- Date Made Active in Reports: 12/19/2014
- Number of Days to Update: 37
- Source: Kern County Environment Health Services Department
- Telephone: 661-862-8700
- Last EDR Contact: 02/23/2015
- Next Scheduled EDR Contact: 05/25/2015
- Data Release Frequency: Quarterly

KINGS COUNTY:
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: 11/21/2014
- Date Data Arrived at EDR: 11/25/2014
- Date Made Active in Reports: 12/30/2014
- Number of Days to Update: 35
- Source: Kings County Department of Public Health
- Telephone: 559-584-1411
- Last EDR Contact: 03/23/2015
- Next Scheduled EDR Contact: 06/08/2015
- Data Release Frequency: Varies

LAKE COUNTY:
CUPA Facility List
- Cupa facility list

- Date of Government Version: 01/20/2015
- Date Data Arrived at EDR: 01/21/2015
- Date Made Active in Reports: 02/05/2015
- Number of Days to Update: 15
- Source: Lake County Environmental Health
- Telephone: 707-263-1164
- Last EDR Contact: 01/19/2015
- Next Scheduled EDR Contact: 05/04/2015
- Data Release Frequency: Varies

LOS ANGELES COUNTY:
San Gabriel Valley Areas of Concern
- San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

- Date of Government Version: 03/30/2009
- Date Data Arrived at EDR: 03/31/2009
- Date Made Active in Reports: 10/23/2009
- Number of Days to Update: 206
- Source: EPA Region 9
- Telephone: 415-972-3178
- Last EDR Contact: 03/23/2015
- Next Scheduled EDR Contact: 07/06/2015
- Data Release Frequency: No Update Planned

HMS: Street Number List
- Industrial Waste and Underground Storage Tank Sites.

- Date of Government Version: 11/24/2014
- Date Data Arrived at EDR: 01/30/2015
- Date Made Active in Reports: 03/04/2015
- Number of Days to Update: 33
- Source: Department of Public Works
- Telephone: 626-458-3517
- Last EDR Contact: 01/12/2015
- Next Scheduled EDR Contact: 04/27/2015
- Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
- Solid Waste Facilities in Los Angeles County.
City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

MADERA COUNTY:

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.
MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 01/05/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/20/2015
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.
Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/12/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 18
Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 02/06/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/01/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 18
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/03/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 18
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/01/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 13
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

PLACER COUNTY:
Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/12/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 6

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 03/09/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 01/28/2015
Date Data Arrived at EDR: 01/29/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 33

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/28/2015
Date Data Arrived at EDR: 01/29/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 28

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/03/2014
Date Data Arrived at EDR: 01/07/2015
Date Made Active in Reports: 02/03/2015
Number of Days to Update: 27

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/07/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Quarterly

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: 11/03/2014
Date Data Arrived at EDR: 01/09/2015
Date Made Active in Reports: 02/03/2015
Number of Days to Update: 25

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/05/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.
SAN DIEGO COUNTY:

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: 09/23/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/17/2013
Number of Days to Update: 23
Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/10/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Quarterly

Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2014
Date Data Arrived at EDR: 11/21/2014
Date Made Active in Reports: 12/29/2014
Number of Days to Update: 38
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

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: 03/09/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversight 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: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:
### San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

<table>
<thead>
<tr>
<th>Date of Government Version: 03/24/2015</th>
<th>Source: Environmental Health Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 03/25/2015</td>
<td>Telephone: N/A</td>
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<td>Date Made Active in Reports: 03/31/2015</td>
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<td>Number of Days to Update: 6</td>
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### SAN LUIS OBISPO COUNTY:

**CUPA Facility List**

Cupa Facility List.

<table>
<thead>
<tr>
<th>Date of Government Version: 02/23/2015</th>
<th>Source: San Luis Obispo County Public Health Department</th>
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<tbody>
<tr>
<td>Date Data Arrived at EDR: 02/24/2015</td>
<td>Telephone: 805-781-5596</td>
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<td>Number of Days to Update: 7</td>
<td>Next Scheduled EDR Contact: 06/08/2015</td>
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### SAN MATEO COUNTY:

**Business Inventory**

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

<table>
<thead>
<tr>
<th>Date of Government Version: 01/09/2015</th>
<th>Source: San Mateo County Environmental Health Services Division</th>
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<tbody>
<tr>
<td>Date Data Arrived at EDR: 01/12/2015</td>
<td>Telephone: 650-363-1921</td>
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<td>Date Made Active in Reports: 02/03/2015</td>
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<td>Next Scheduled EDR Contact: 06/29/2015</td>
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**Fuel Leak List**

A listing of leaking underground storage tank sites located in San Mateo county.

<table>
<thead>
<tr>
<th>Date of Government Version: 03/16/2015</th>
<th>Source: San Mateo County Environmental Health Services Division</th>
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### SANTA BARBARA COUNTY:

**CUPA Facility Listing**

CUPA Program Listing from the Environmental Health Services division.

<table>
<thead>
<tr>
<th>Date of Government Version: 09/08/2011</th>
<th>Source: Santa Barbara County Public Health Department</th>
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</thead>
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<tr>
<td>Date Data Arrived at EDR: 09/09/2011</td>
<td>Telephone: 805-686-8167</td>
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### SANTA CLARA COUNTY:

**Cupa Facility List**

Cupa facility list
Date of Government Version: 02/23/2015  
Date Data Arrived at EDR: 02/25/2015  
Date Made Active in Reports: 03/03/2015  
Number of Days to Update: 6  
Source: Department of Environmental Health  
Telephone: 408-918-1973  
Last EDR Contact: 02/23/2015  
Next Scheduled EDR Contact: 06/08/2015  
Data Release Frequency: Varies

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

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: 02/26/2015  
Next Scheduled EDR Contact: 06/15/2015  
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 02/23/2015  
Date Data Arrived at EDR: 02/24/2015  
Date Made Active in Reports: 03/04/2015  
Number of Days to Update: 8  
Source: City of San Jose Fire Department  
Telephone: 408-535-7694  
Last EDR Contact: 02/23/2015  
Next Scheduled EDR Contact: 05/25/2015  
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 11/24/2014  
Date Data Arrived at EDR: 11/25/2014  
Date Made Active in Reports: 12/31/2014  
Number of Days to Update: 36  
Source: Santa Cruz County Environmental Health  
Telephone: 831-464-2761  
Last EDR Contact: 02/23/2015  
Next Scheduled EDR Contact: 06/08/2015  
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 03/11/2015  
Date Data Arrived at EDR: 03/13/2015  
Date Made Active in Reports: 03/24/2015  
Number of Days to Update: 11  
Source: Shasta County Department of Resource Management  
Telephone: 530-225-5789  
Last EDR Contact: 02/23/2015  
Next Scheduled EDR Contact: 06/08/2015  
Data Release Frequency: Varies

SOLANO COUNTY:
### Leaking Underground Storage Tanks

- **Solano County**
  - A listing of leaking underground storage tank sites located in Solano county.
  - Date of Government Version: 03/13/2015
  - Source: Solano County Department of Environmental Management
  - Telephone: 707-784-6770

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### Underground Storage Tanks

- Underground storage tank sites located in Solano county.

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### SONOMA COUNTY:

#### Cupa Facility List

- Cupa Facility List

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### Leaking Underground Storage Tank Sites

- A listing of leaking underground storage tank sites located in Sonoma county.

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### SUTTER COUNTY:

- Underground storage tank sites located in Sutter county.

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### TUOLUMNE COUNTY:

#### CUPA Facility List

- Cupa facility list

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### VENTURA COUNTY:
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: 01/27/2015
Date Data Arrived at EDR: 02/19/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 12
Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Quarterly

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: 04/02/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Annually

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: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Quarterly

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: 12/29/2014
Date Data Arrived at EDR: 01/30/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 32
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/27/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/26/2015
Number of Days to Update: 8
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/18/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 12/18/2014
Date Data Arrived at EDR: 12/23/2014
Date Made Active in Reports: 01/27/2015
Number of Days to Update: 35
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Annually

YUBA COUNTY:
CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 02/17/2015
Date Data Arrived at EDR: 02/19/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 12

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 02/18/2015
Next Scheduled EDR Contact: 05/18/2015
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: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/17/2014
Next Scheduled EDR Contact: 03/02/2015
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/12/2015
Next Scheduled EDR Contact: 04/27/2015
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: 01/01/2015
Date Data Arrived at EDR: 02/04/2015
Date Made Active in Reports: 02/27/2015
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/04/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/21/2014
Date Made Active in Reports: 08/25/2014
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/19/2015
Next Scheduled EDR Contact: 05/04/2015
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/15/2014
Date Made Active in Reports: 08/13/2014
Number of Days to Update: 29

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Annually
Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

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, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.
TARGET PROPERTY ADDRESS

CONCORDIA UNIVERSITY IRVINE
1530 WEST CONCORDIA
IRVINE, CA 92612

TARGET PROPERTY COORDINATES

Latitude (North): 33.6535 - 33° 39’ 12.60”
Longitude (West): 117.8106 - 117° 48’ 38.16”
Universal Tranverse Mercator: Zone 11
UTM X (Meters): 424837.6
UTM Y (Meters): 3723839.2
Elevation: 182 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 33117-F7 TUSTIN, CA
Most Recent Revision: 1981

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 principal 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.
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 North

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES

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.
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

Target Property County: ORANGE, CA
Flood Plain Panel at Target Property: 06059C - FEMA DFIRM Flood data
Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property: TUSTIN
Data Coverage: 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.

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>LOCATION FROM TP</th>
<th>GENERAL DIRECTION GROUNDWATER FLOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/2 - 1 Mile NE</td>
<td>N</td>
</tr>
</tbody>
</table>

For additional site information, refer to Physical Setting Source Map Findings.

* ©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.
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	GEOLOGIC AGE IDENTIFICATION

<table>
<thead>
<tr>
<th>Era:</th>
<th>Cenozoic</th>
</tr>
</thead>
<tbody>
<tr>
<td>System:</td>
<td>Quaternary</td>
</tr>
<tr>
<td>Series:</td>
<td>Quaternary</td>
</tr>
<tr>
<td>Code:</td>
<td>Q</td>
</tr>
</tbody>
</table>

(decoded above as Era, System & Series)

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: ALO
Soil Surface Texture: clay
Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.
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

<table>
<thead>
<tr>
<th>Layer</th>
<th>Upper</th>
<th>Lower</th>
<th>Soil Texture Class</th>
<th>Classification</th>
<th>Soil Layer Information</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Upper</td>
<td>Lower</td>
<td>Soil Texture Class</td>
<td>AASHTO Group</td>
<td>Unified Soil</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>0 inches</td>
<td>25 inches</td>
<td>clay</td>
<td>Not reported</td>
<td>Not reported</td>
</tr>
<tr>
<td>2</td>
<td>25 inches</td>
<td>29 inches</td>
<td>weathered bedrock</td>
<td>Not reported</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

Soil Map ID: 2

Soil Component Name: ALO
Soil Surface Texture: clay
Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.
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

<table>
<thead>
<tr>
<th>Layer</th>
<th>Upper</th>
<th>Lower</th>
<th>Soil Texture Class</th>
<th>AASHTO Group</th>
<th>Unified Soil</th>
<th>Soil Map ID</th>
<th>Soil Component Name</th>
<th>Soil Texture</th>
<th>Hydrologic Group</th>
<th>Soil Drainage Class</th>
<th>Hydric Status</th>
<th>Corrosion Potential - Uncoated Steel</th>
<th>Depth to Bedrock Min</th>
<th>Depth to Watertable Min</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>14 inches</td>
<td>22 inches</td>
<td>clay</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.</td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay.</td>
<td>3</td>
<td>BALCOM</td>
<td>clay loam</td>
<td>Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.</td>
<td>Well drained</td>
<td>Not reported</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>22 inches</td>
<td>25 inches</td>
<td>weathered bedrock</td>
<td>Not reported</td>
<td>Not reported</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>0 inches</td>
<td>14 inches</td>
<td>clay</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.</td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Soil Layer Information

<table>
<thead>
<tr>
<th>Layer</th>
<th>Boundary</th>
<th>Classification</th>
<th>Saturated hydraulic conductivity micro m/sec</th>
<th>Soil Reaction (pH)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Upper</td>
<td>Lower</td>
<td>Soil Texture Class</td>
<td>AASHTO Group</td>
</tr>
<tr>
<td>1</td>
<td>0 inches</td>
<td>27 inches</td>
<td>clay loam</td>
<td>Not reported</td>
</tr>
<tr>
<td>2</td>
<td>27 inches</td>
<td>31 inches</td>
<td>weathered bedrock</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

### Soil Map ID: 4

**Soil Component Name:** ANAHEIM  
**Soil Surface Texture:** loam  
**Hydrologic Group:** Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.  
**Soil Drainage Class:** Well drained  
**Hydric Status:** Not hydric  
**Corrosion Potential - Uncoated Steel:** Low  
**Depth to Bedrock Min:** > 0 inches  
**Depth to Watertable Min:** > 0 inches

### Soil Layer Information

<table>
<thead>
<tr>
<th>Layer</th>
<th>Boundary</th>
<th>Classification</th>
<th>Saturated hydraulic conductivity micro m/sec</th>
<th>Soil Reaction (pH)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Upper</td>
<td>Lower</td>
<td>Soil Texture Class</td>
<td>AASHTO Group</td>
</tr>
<tr>
<td>1</td>
<td>0 inches</td>
<td>25 inches</td>
<td>loam</td>
<td>Not reported</td>
</tr>
<tr>
<td>2</td>
<td>25 inches</td>
<td>29 inches</td>
<td>weathered bedrock</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

### Soil Map ID: 5

**Soil Component Name:** ALO  
**Soil Surface Texture:** clay  
**Hydrologic Group:** Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.  
**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

<table>
<thead>
<tr>
<th>Layer</th>
<th>Upper</th>
<th>Lower</th>
<th>Soil Texture Class</th>
<th>Classification</th>
<th>AASHTO Group</th>
<th>Unified Soil</th>
<th>Saturated hydraulic conductivity micro m/sec</th>
<th>Soil Reaction (pH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0 inches</td>
<td>14 inches</td>
<td>clay</td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.</td>
<td>Max: 1.4 Min: 0.42</td>
<td>Max: 8.4 Min: 6.1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>14 inches</td>
<td>22 inches</td>
<td>clay</td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.</td>
<td>Max: 1.4 Min: 0.42</td>
<td>Max: 8.4 Min: 6.1</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>22 inches</td>
<td>25 inches</td>
<td>weathered bedrock</td>
<td>Not reported</td>
<td>Not reported</td>
<td>Max: 1.4 Min: 0</td>
<td>Max: Min:</td>
<td></td>
</tr>
</tbody>
</table>

---

### Soil Map ID: 6

- **Soil Component Name:** CALLEGUAS
- **Soil Surface Texture:** clay loam
- **Hydrologic Group:** Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.
- **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

<table>
<thead>
<tr>
<th>Layer</th>
<th>Boundary</th>
<th>Classification</th>
<th>Saturated hydraulic conductivity micro m/sec</th>
<th>Soil Reaction (pH)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Upper</td>
<td>Lower</td>
<td>AASHTO Group</td>
<td>Unified Soil</td>
</tr>
<tr>
<td>1</td>
<td>0 inches</td>
<td>14 inches</td>
<td>clay loam</td>
<td>Not reported</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay</td>
</tr>
<tr>
<td>2</td>
<td>14 inches</td>
<td>18 inches</td>
<td>weathered bedrock</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

### Soil Map ID: 7

**Soil Component Name:** ANAHEIM  
**Soil Surface Texture:** clay loam  
**Hydrologic Group:** Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.  
**Soil Drainage Class:** Well drained  
**Hydric Status:** Not hydric  
**Corrosion Potential - Uncoated Steel:** Moderate  
**Depth to Bedrock Min:** > 0 inches  
**Depth to Watertable Min:** > 0 inches
Soil Map ID: 8

Soil Component Name: METZ
Soil Surface Texture: loamy sand
Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.
Soil Drainage Class: Somewhat excessively drained
Hydric Status: Not hydric
Corrosion Potential - Uncoated Steel: High
Depth to Bedrock Min: > 0 inches
Depth to Watertable Min: > 0 inches

<table>
<thead>
<tr>
<th>Layer</th>
<th>Boundary</th>
<th>Soil Texture Class</th>
<th>Classification</th>
<th>Saturated hydraulic conductivity (μm/sec)</th>
<th>Soil Reaction (pH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0 inches</td>
<td>16 inches</td>
<td>loamy sand</td>
<td>Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.</td>
<td>COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.</td>
</tr>
<tr>
<td>2</td>
<td>16 inches</td>
<td>62 inches</td>
<td>stratified sand to fine sandy loam</td>
<td>Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.</td>
<td>COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>DATABASE</th>
<th>SEARCH DISTANCE (miles)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal USGS</td>
<td>1.000</td>
</tr>
<tr>
<td>Federal FRDS PWS</td>
<td>Nearest PWS within 1 mile</td>
</tr>
<tr>
<td>State Database</td>
<td>1.000</td>
</tr>
</tbody>
</table>

### FEDERAL USGS WELL INFORMATION

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>WELL ID</th>
<th>LOCATION FROM TP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

No Wells Found

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>WELL ID</th>
<th>LOCATION FROM TP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

No PWS System Found

Note: PWS System location is not always the same as well location.

### STATE DATABASE WELL INFORMATION

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>WELL ID</th>
<th>LOCATION FROM TP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

No Wells Found

### OTHER STATE DATABASE INFORMATION

### STATE OIL/GAS WELL INFORMATION

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>WELL ID</th>
<th>LOCATION FROM TP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CAOG9A000003797</td>
<td>1/2 - 1 Mile SE</td>
</tr>
</tbody>
</table>
## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

<table>
<thead>
<tr>
<th>Map ID</th>
<th>Direction</th>
<th>Distance</th>
<th>Elevation</th>
<th>Database</th>
<th>EDR ID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 NE</td>
<td>1/2 - 1 Mile Lower</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Site ID:** 083000251T
- **Groundwater Flow:** N
- **Shallow Water Depth:** Not Reported
- **Deep Water Depth:** Not Reported
- **Average Water Depth:** 43.54
- **Date:** 01/29/1999

Database: AQUIFLOW  | EDR ID Number: 54826
<table>
<thead>
<tr>
<th>Map ID</th>
<th>Direction</th>
<th>Distance</th>
<th>Database</th>
<th>EDR ID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SE</td>
<td>1/2 - 1 Mile</td>
<td>OIL_GAS</td>
<td>CAOG9A000003797</td>
</tr>
</tbody>
</table>

1

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
<th>Field</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Districtnu:</td>
<td>1</td>
<td>Apiumber:</td>
<td>05900993</td>
</tr>
<tr>
<td>BImwell:</td>
<td>N</td>
<td>Redrillcan:</td>
<td>Not Reported</td>
</tr>
<tr>
<td>Dryhole:</td>
<td>N</td>
<td>Wellstatus:</td>
<td>I</td>
</tr>
<tr>
<td>Operator:</td>
<td>H. T. &amp; K. Syndicate</td>
<td>Fieldname:</td>
<td>Any Field</td>
</tr>
<tr>
<td>Countyname:</td>
<td>Orange</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Areaname:</td>
<td>Any Area</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section:</td>
<td>14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Township:</td>
<td>06S</td>
<td>Range:</td>
<td>09W</td>
</tr>
<tr>
<td>Base meridi:</td>
<td>SB</td>
<td>Elevation:</td>
<td>Not Reported</td>
</tr>
<tr>
<td>Locationde:</td>
<td>Not Reported</td>
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<td></td>
</tr>
<tr>
<td>Glat:</td>
<td>33.645679</td>
<td></td>
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</tr>
<tr>
<td>Glong:</td>
<td>-117.797193</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gissourcec:</td>
<td>hud</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comments:</td>
<td>Not Reported</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leasename:</td>
<td>Not Reported</td>
<td>Wellnumber:</td>
<td>1</td>
</tr>
<tr>
<td>Epawell:</td>
<td>N</td>
<td>Hydraulica:</td>
<td>N</td>
</tr>
<tr>
<td>Confidenti:</td>
<td>N</td>
<td>Spuddate:</td>
<td>30-DEC-99</td>
</tr>
<tr>
<td>Weldeptha:</td>
<td>Not Reported</td>
<td>Redrillfoo:</td>
<td>Not Reported</td>
</tr>
<tr>
<td>Abandoned:</td>
<td>/ /</td>
<td>Completion:</td>
<td>/ /</td>
</tr>
<tr>
<td>Gissymbol:</td>
<td>PDH</td>
<td>Site id:</td>
<td>CAOG9A000003797</td>
</tr>
</tbody>
</table>
AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

<table>
<thead>
<tr>
<th>Zipcode</th>
<th>Num Tests</th>
<th>&gt; 4 pCi/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>92612</td>
<td>13</td>
<td>0</td>
</tr>
</tbody>
</table>

Federal EPA Radon Zone for ORANGE County: 3
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 ORANGE COUNTY, CA
Number of sites tested: 30

<table>
<thead>
<tr>
<th>Area</th>
<th>Average Activity</th>
<th>% &lt;4 pCi/L</th>
<th>% 4-20 pCi/L</th>
<th>% &gt;20 pCi/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Living Area - 1st Floor</td>
<td>0.763 pCi/L</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>Living Area - 2nd Floor</td>
<td>Not Reported</td>
<td>Not Reported</td>
<td>Not Reported</td>
<td>Not Reported</td>
</tr>
<tr>
<td>Basement</td>
<td>Not Reported</td>
<td>Not Reported</td>
<td>Not Reported</td>
<td>Not Reported</td>
</tr>
</tbody>
</table>
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. TheDEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOWR 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

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
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 Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, 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.
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

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

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

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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