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# APPENDIX 4.9-A: PHASE I ENVIRONMENTAL SITE ASSESSMENT

# Phase I Environmental Site Assessment

Corby Battery Energy Storage System Project

Solano County, California



July 10, 2024

Prepared for: Corby Energy Storage, LLC Juno Beach, Florida

### Prepared by:

NextEra Energy Environmental Services Juno Beach, Florida





July 10, 2024

Stephen Ahn, Project Director Corby Energy Storage, LLC 700 Universe Boulevard Juno Beach, Florida 33408

Re: Phase I Environmental Site Assessment Corby Battery Energy Storage System Project Solano County, California

Dear Mr. Ahn:

NextEra Energy Environmental Services has completed a Phase I Environmental Site Assessment (ESA) report for the above-referenced subject property. This assessment was performed in accordance with the procedures included in ASTM E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* with the purpose to identify whether recognized environmental conditions (RECs) are present on the subject property.

If there are any questions concerning this report or if I may be of further assistance, please do not hesitate to contact me.

Sincerely,

Peter LaForge Environmental Services Project Manager

Attachments

Copy: Nadan Omercajic, Environmental Services Project Manager, NextEra Energy Resources

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### **EXECUTIVE SUMMARY**

This Phase I Environmental Site Assessment (ESA) was performed in accordance with the procedures included in ASTM E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.* The ESA was conducted under the responsible charge of Peter LaForge, Environmental Professional. Peter LaForge performed the site reconnaissance on June 24, 2024.

### **FINDINGS**

A summary of findings is provided hereafter. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

#### Subject Property Description and Use

The subject property, known as the Corby Battery Energy Storage System (BESS) Project, is an approximately 40-acre property located in the southwestern quadrant of the intersection of Kilkenny and Byrnes Roads in Vacaville, Solano County, California. The centroid of the subject property has global positioning system (GPS) coordinates of Latitude 38.3924655° N, Longitude -121.90750095° W. The subject property is comprised of a single unaddressed parcel identified with Solano County Assessor's Office parcel number 0141030090. The subject property is an unirrigated crop field which appeared fallow and covered with native vegetation (mostly grasses) at the time of site reconnaissance.

#### Adjoining Properties

The subject property exists within a rural area approximately 1-mile east of Interstate Highway 80. An irrigation ditch/canal abuts the northern subject property boundary. Kilkenny Road followed by a residence with a barn and pastures exist to the north beyond the irrigation ditch/canal. Byrnes Road followed by crop fields adjoin the subject property to the east. The subject property is adjoined to the south by an unirrigated crop field which appeared fallow and covered with native vegetation (mostly grasses) at the time of site reconnaissance. An almond orchard adjoins the subject property to the west.

#### Historical Information

Based on a review of available historical sources and a prior Phase I ESA, the subject property has been used for agriculture (crop fields and orchards) since at least the late 1930s. The subject property appeared to have been a crop field from at least the late 1930s to the early 1990s, an orchard from at least the late 1990s to the mid-2010s, and a crop field since at least 2020. No structures appear to have existed on the subject property.

The surrounding area, like the subject property, has been primarily used for agriculture since at least the late 1930s. Since at least the early 1930s, Kilkenny and Byrnes Roads have existed on the north and east subject property boundaries, respectively. Several residences/farms were apparent on adjoining properties by at least the early 1950s and additional development was apparent over time. The irrigation ditch/canal abutting the northern subject property boundary was apparent by at least the late 1960s.

Corby BESS Project • Solano, California July 10, 2024



#### Records Review

Selected federal, state, tribal and local environmental regulatory databases were reviewed and inquiries with local regulatory agencies made. The ERIS database report identified no facility listings for the subject property or within ASTM specified distances of the subject property. However, one unplottable listing was identified. Unplottable facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the subject property. Based on the limited information provided by the ERIS database report, which included the facility name, Gurmail Singh, who is listed as the subject property owner on the Owner Questionnaire, and an address of Kilkenny Vacaville, CA, the unplottable facility is suspected to include the subject property. The facility is listed on the Solano County Certified Unified Program Agency (CUPA) list and its listing is likely related to permitted agrichemical application activities.

In response to a request for information regarding the application of agrichemicals on the subject property, the Solano County Department of Agricultural Weights and Measures provided a spreadsheet listing the types and quantities of agrichemicals applied since 2015. The spreadsheet also indicated that there were no permit violations. Given that there were no permit violations and no agrichemical mixing areas were identified during site reconnaissance, the permitted application of agrichemicals is not considered a recognized environmental condition (REC). However, historic agricultural use of the subject property may have resulted in the presence of residual agrichemical constituents, including organochlorinated compounds and metals, in surficial soils. Given the proposed commercial/industrial use of the subject property, concentrations of these residual agrichemical constituents are considered likely to be below applicable risk-based regulatory levels; but their potential presence should be considered when evaluating potential risks.

#### Site Reconnaissance

Site reconnaissance revealed the subject property is an unirrigated crop field which appeared fallow and covered with native vegetation (mostly grasses). RECs were not identified in connection with observed subject property uses or operations.

#### Additional Services

Additional services were not conducted as part of this assessment.

### **OPINIONS AND CONCLUSIONS**

This Phase I ESA was performed in conformance with the scope and limitations of ASTM Practice E1527-21 for the Corby BESS Project, located in the southwestern quadrant of the intersection of Kilkenny and Byrnes Roads in Vacaville, Solano County, California. Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report. This assessment has revealed the following no RECs, controlled recognized environmental conditions (CRECs), and/or significant data gaps in connection with the subject property.

While not considered a REC per ASTM, historic agricultural use of the subject property may have resulted in the presence of residual agrichemical constituents, including organochlorinated compounds and metals, in surficial soils. Given the proposed commercial/industrial use of the subject property, concentrations of these



residual agrichemical constituents are considered likely to be below applicable risk-based regulatory levels; but their potential presence should be considered when evaluating potential risks.

### SIGNIFICANT DATA GAPS

Significant data gaps were not identified during performance of this Phase I ESA.

### **RECOMMENDATIONS**

Based on the scope of services, limitations, and conclusions of this assessment, RECs were not identified in connection with the subject property. Unless required by the regulatory agency to evaluate the potential presence of residual agrichemical constituents in surficial soils, supplemental investigation of the subject property does not appear warranted at this time.



### 1.0 INTRODUCTION

Subject Property Name	Corby Battery Energy Storage System (BESS) Project
Subject Property Location/Address	The subject property is the in southwestern quadrant of the intersection of Kilkenny and Byrnes Roads in Vacaville, Solano County, California. No physical address was identified in connection with the subject property. The centroid of the subject property has global positioning system (GPS) coordinates of Latitude 38.3924655° N, Longitude - 121.90750095° W.
Parcel Identification Number(s)	Identified with Solano County Assessor's Office parcel number 0141030090.
Land Area	Approximately 40 acres
Current Land Use	Fallow crop field
Subject Property Improvements	The subject property is unimproved
Vicinity Setting	The subject property exists within a rural area approximately 1-mile east of interstate Highway 80. The surrounding area appears as a mix of low-density residential properties and agricultural land (crop fields, pastures, and orchards).
Reason for Performing Phase I ESA	To meet California Energy Commission (CEC) permit application conditions
Proposed Subject Property Use	BESS

#### 1.1 Subject Property Description

The subject property location is depicted on **Figure 1** of **Appendix A**, which was reproduced from a portion of the USGS 7.5-minute series topographic map. A Site Plan of the subject property and adjoining properties is included as **Figure 2** of **Appendix A**.

#### 1.2 Purpose

The goal of this Phase I Environmental Site Assessment (ESA) is to identify whether recognized environmental conditions (RECs) are present on the subject property. The term REC means (1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. *De minimis* conditions, releases that generally do not present a threat to human health or the environment, are not recognized environmental conditions (ASTM E1527-21). This ESA is intended to satisfy one of the requirements for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) liability; that is, the practices that constitute "all appropriate inquiry into the previous ownership



and uses of the property consistent with good commercial or customary practice," as defined in 40 Code of Federal Regulations (CFR) Section 312. Controlled substances are not included within the scope of this standard.

#### 1.3 Scope of Services

This Phase I ESA was performed in accordance with the procedures included in ASTM E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.* The purpose of this ESA was to assist the user (Corby Energy Storage, LLC) in developing information to identify RECs in connection with the subject property as reflected by the scope of this report. This purpose was undertaken by performing the following tasks:

- Review of user-provided information;
- Physical records review;
- Historical records review such as evaluation of historical aerial photographs, topographic maps, Sanborn fire insurance maps and related sources, as appropriate;
- Regulatory database review of select federal and state/tribal databases for facilities located within the specified ASTM search distances;
- Visual noninvasive reconnaissance of the subject property and adjoining properties as viewed from subject property boundaries or public right-of-way;
- Interviews with the subject property owner(s), occupant(s), and local government officials, as applicable; and
- Preparation of this ESA report summarizing the findings and providing conclusions/opinions concerning the identification of RECs.

Limitations, ASTM deviations, and significant data gaps (if identified) are noted in the applicable sections of the report.

#### 1.4 Significant Assumptions

For the purposes of this assessment, the conclusions and opinions of this report are derived from available public information, records, and databases in addition to information provided by interviewed parties. This information is believed to be true and accurate; however, it is subject to limitations as described in the following section. Where appropriate, these limitations are discussed in the text of the report, and an evaluation of their significance with respect to our findings has been conducted.

#### Site-Specific Assumptions

• It is assumed that past and present farmers have applied agrichemicals to the agricultural fields in accordance with US Environmental Protection Agency (EPA) and product manufacture recommendations.



#### 1.5 Scope Limitations, ASTM Deviations, Exceptions and Data Gaps

Phase I ESAs, such as the one performed at this subject property, are of limited scope, are noninvasive, and cannot eliminate the potential that hazardous, toxic, or petroleum substances are present or have been released at the subject property beyond what is identified by the limited scope of this ESA. In conducting the limited scope of services described herein, certain sources of information and public records were not reviewed. It should be recognized that environmental concerns may be documented in public records that were not reviewed. No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs. No warranties, express or implied, are intended or made. The limitations herein must be considered when the user of this report formulates opinions as to risks associated with the subject property or otherwise uses the report for any other purpose. These risks may be further evaluated, but not eliminated, through additional research or assessment. Upon request, the user may be advised of additional research or assessment options that may be available and associated fees.

This ESA did not include subsurface or other invasive assessments, vapor intrusion assessments or indoor air quality assessments (i.e., evaluation of the presence of vapors within a building structure), business environmental risk evaluations, or other services not particularly identified and discussed herein. Pertinent documents are referred to in the text of this report and are listed in Section 9.0 of this report. Reasonable attempts were made to obtain information within the scope and time constraints set forth by the user; however, in some instances, information requested is not, or was not, received by the issuance date of the report. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted hereunder. This ESA was further limited by the following:

- The Solano County Resource Management Division and Department of Environmental Health Hazardous Materials Division, were not contacted as part of this assessment as a prior Phase I ESA, completed in April 2023, indicated these county agencies were either non-responsive or their records contained no information regarding the subject property.
- 1.6 Special Terms and Conditions

No warranty or guarantee is made with respect to the data reported or findings, observations, conclusions, and recommendations expressed in this report. Further, the reported data is based solely upon conditions observed and information collected at the time of the assessment. This report represents our findings as of the report date and constitutes our final document; its text may not be altered after final issuance. Findings in this report are based upon the subject property's current utilization, information derived from the most recent reconnaissance and from other activities described herein; such information is subject to change. Certain indicators of the presence of hazardous substances or petroleum products may have been latent, inaccessible, unobservable, or not present during the most recent reconnaissance and may subsequently become observable (such as after subject property renovation or development). Further, these services are not to be construed as legal interpretation or advice.



#### 1.7 User Reliance and Continued Viability of ESA

This ESA report is prepared for the exclusive use and reliance of Corby Energy Storage, LLC, its affiliates, and assignees. Use or reliance by any other party is prohibited without the written authorization of Corby Energy Storage, LLC. If the ESA will be used by a different user (third party) than the user for whom the ESA was originally prepared, the third party must also satisfy the user's responsibilities in Section 6 of ASTM E1527-21.

ASTM E1527-21 prescribes time limitations for reliance on ESAs involving land transactions (or, for transactions not involving an acquisition such as a lease or refinance). In general, the results of an ESA conforming to the practice may be relied upon for a period of 180 days as described in Sections 4 and 6 of ASTM E1527-21. Corby Energy Storage, LLC may rely on the results of this ESA to the extent, and within the time limits, prescribed by ASTM E1527-21. This Phase I ESA report is viable through November 3, 2024. Following this date, certain elements of the ESA must be updated for the ESA to be relied upon.

### 2.0 USER PROVIDED INFORMATION

#### 2.1 Title Records

Title records were not provided by the user. A title search was not included as part of the scope of services. Unless notified otherwise, we assume that the user is evaluating this information outside the scope of this report.

#### 2.2 Environmental Liens and Activity and Use Limitations

Environmental lien (EL) and activity and use limitation (AUL) records recorded against the subject property were not provided by the user. Performance of a review of these records was not included as part of the scope of services and unless notified otherwise, we assume that the user is evaluating this information outside the scope of this report.

While not requested by the user, the regulatory database report (see Section 3.4) included a review of both federal and state Engineering Control (EC) and Institutional Control (IC) databases. Based on a review of the database report, the subject property was not listed on the EC or IC databases. Please note that in addition to these federal and state listings, AULs can be recorded at the county and municipal level that may not be listed in the regulatory database report. Based on its limited nature, this review does not constitute a review of AULs per ASTM E2247-16.

#### 2.3 Specialized Knowledge

Prior to the subject property visit, the user did not provide specialized knowledge which identified conditions indicative of releases or threatened releases to the subject property.



#### 2.4 User Questionnaire

Prior to the subject property visit, Corby Energy Storage, LLC (User), was asked to provide the following user questionnaire information as described in ASTM E1527-21, Section X3. Stephen Ahn, Project Director for Corby Energy Storage, LLC provided the following responses.

#### **User Questionnaire Responses**

User Questionnaire Item	User's Response
Did a search of land title records (or judicial records, where appropriate) identify any environmental liens filed or recorded against the subject property under federal, tribal, state, or local law?	No
Did a search of land title records (or judicial records, where appropriate) identify any activity and use limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the subject property and/or have been filed or recorded against the subject property under federal, tribal, state or local law?	No but there is an existing PG&E gas line
Does the User have any specialized knowledge or experience related to the subject property or nearby properties? For example, are you involved in the same line of business as the current of former occupants of the subject property and an adjoining property so that you have specialized knowledge of the chemicals and processes used by this type of business?	No
Does the purchase price being paid for this subject property reasonably reflect the fair market value of the property? If you conclude there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the subject property.	Yes
Is the User aware of commonly known or reasonably ascertainable information about the subject property that would help the Environmental Professional to identify conditions indicative of releases or threatened releases?	Used for farming (e.g., row crops)
Based on the User's knowledge and experience related to the subject property, are there any obvious indicators that point to the presence or likely presence of releases at the subject property?	No

Review of the completed User Questionnaire did not identify potential RECs. A copy of the completed user questionnaire is included in **Appendix C**.



### 3.0 RECORDS REVIEW

### 3.1 Physical Setting Sources

	Physical Setting Information	Information Source	
	Topography (Refer to Appendix A and D for excerpts of USGS '	Topographic Maps)	
Subject Property Elevation	Approximately 78 feet above sea level for the subject property area centroid.	USGS Topographic Map, Allendal	
Topographic Gradient	The topographic gradient of the subject property is relatively flat with a gentle downward slope toward the east-southeast.		
Surface Runoff/ Drainage	Precipitation upon the property appears to directly infiltrate into the surface soils. During heavy precipitation events, it is expected that runoff flows to topographically low-lying areas and toward drainage features (ditches/canals).	CA (2022), site reconnaissance o June 24, 2024, and Google Eart Pro images	
Closest Surface Water	Ditch/canal abutting the northern subject property boundary		
	Soil Characteristics		
Soil Unit (with percentage of soil unit within subject property)	Cc: Capay clay, 0 percent slopes, MLRA 17 (10.1%) CeA: Clear Lake clay, 0 to 2 percent slopes, MLRA 17 (10.1%) SeA: San Ysidro sandy loam, 0 to 2 percent slopes (44.9%) SfA: San Ysidro sandy loam, thick surface, 0 to 2 percent slopes Yr: Yolo loam, clay substratum0 to 2 percent slopes (12.6%)		
General Description	Cc: Moderately well drained; 0 to 5 inches: clay; 5 to 21 inches: silty clay; 21 to 32 inches: silty clay; 32 to 40 inches: silty clay; 40 to 50 inches: silty clay loam; 50 to 62 inches: silty clay loam; 62 to 81 inches: clay loam; 81 to 88 inches: sandy clay loam; 88 to 102 inches: fine sandy loam CeA: Poorly drained; 0 to 60 inches: clay SeA: Moderately well drained; 0 to 14 inches: sandy loam; 14 to 28 inches: clay loam; 28 to 54 inches: sandy clay loam; 54 to 68 inches: stratified sandy loam to clay loam SfA: Moderately well drained; to 14 inches: sandy loam; 14 to 28 inches: clay loam; 28 to 54 inches: sandy clay loam; 54 to 68 inches: stratified sandy loam to clay loam SfA: Moderately well drained; to 14 inches: sandy loam; 14 to 28 inches: clay loam; 28 to 54 inches: sandy clay loam; 54 to 68 inches: stratified sandy loam to clay loam	USDA Natural Resource Conservation (NRCS) Web Soil Survey: https://websoilsurvey.sc.egov.usda.gov	
	Geology		
Formation / Unit	Older Quaternary alluvium and marine deposits	USGS Geologic Maps:	
Geologic Age	Pleistocene	https://mrdata.usgs.gov/geology/state /	
Description	Older alluvium, lake, playa, and terrace deposits.		

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Hydrogeology			
Estimated Depth to First Occurrence of Groundwater	A prior Phase I ESA indicated that depth to water at a site located 1.3 miles west of the subject property ranged from 13.5 to 18.3 feet below land surface (bls) in 2021 with a flow direction toward the southeast (Parsons 2021)	Solano County, California	
*Hydrogeologic Gradient	Groundwater flow direction at the above referenced site was reported to be toward the southeast.	(Dudek, April 2023)	

\* The groundwater flow direction and the depth to shallow, unconfined groundwater, if present, would likely vary depending upon seasonal variations in rainfall, hydrogeological features such as surface water bodies and influences from nearby users of water (e.g., water supply wells). On-site groundwater monitoring using wells surveyed to a datum would be required to obtained site-specific groundwater depth and flow direction.

#### 3.2 Historical Use Information

The following historical sources were reviewed to develop a history of the previous use(s) of the subject property and surrounding area, in order to help identify indications of RECs. Copies of pertinent historical documents are included in Appendix D.

#### 3.2.1 USGS Topographic Maps

Readily available historical USGS topographic maps were reviewed to evaluate land development and obtain information concerning the history of development on and near the subject property. Reviewed historical topographic maps are summarized below.

- Vacaville, CA (1908), 15-minute topographic map, Source: Phase I ESA, Corby BESS Vacaville, Solano County, California (Dudek, April 2023)
- Elmira and Wolfskill, CA (1917), 7.5-minute topographic map, Source: Phase I ESA, Corby BESS Vacaville, Solano County, California (Dudek, April 2023)
- Allendale and Elmira, CA (1953, 1968, 1973, 1978/1980, 2012, 2015, 2018, and 2020), 7.5-minute topographic map, Source: Phase I ESA, Corby BESS Vacaville, Solano County, California (Dudek, April 2023)

Direction	Description	
Subject Property	1908 - 1978/1980: The subject property was shown as undeveloped or agricultural land since at least 1908. An unpaved road was shown to traverse the subject property from at least 1973 to 1978/1980.	
North	1908 - 1978/1980: Present-day Kilkenny Road and a small structure, likely a residence or barn, existed by at least 1908. The structure was no longer present by at least 1917. Several structures, likely a residence or barn, were apparent by at least 1953.	
East	1908 - 1978/1980: Present-day Byrnes Road existed by at least 1908. Between 1908 and 1978/1980 the parcels to the east of Byrnes Road, were shown as mostly undeveloped or agricultural land. Several structures were shown to have existed on those parcels, but none of the structures were near the subject property.	
South	1908 - 1978/1980: Shown as undeveloped or agricultural land. Between 1908 and 1978/1980, several structures were shown have existed to the south but none of the structures were near the subject property.	

#### **USGS** Topographic Maps



Direction Description		
West	1908 - 1978/1980: Shown as undeveloped or agricultural land. Between 1908 and 1978/1980, several structures were shown have existed on those parcels, of the structures were near the subject property.	

Note: 2012, 2015, 2018 and 2022 topographic maps were not useful since they do not show subject property features (e.g., buildings) or USGS map symbols.

Review of the USGS Topographic Maps did not reveal evidence of RECs in connection with the subject property.

#### 3.2.2 Historical Aerial Photographs

Readily available historical aerial photographs (at approximately 10 to 15-year intervals, or less) were reviewed to evaluate land development and obtain information concerning the history of development on and near the subject property. Reviewed aerial photographs, provided in the Phase I ESA, Corby BESS Vacaville, Solano County, California (Dudek, April 2023), included the following years: 1937, 1952, 1968, 1974, 1984, 1993, 2006, 2009, 2012, 2016, 2020 and 2022. In addition, an annotated 2022 aerial photograph, provided by National Agriculture Imagery Program (NAIP) is furnished as the Site Plan and is included as Figure 2 in Appendix A.

<b>Historical Aerial Photographs</b>	Historical	Aerial	<b>Photographs</b>
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Direction	Description
Subject Property	1937 - 1993: Subject property appeared as a crop field. 2006 - 2016: Subject property appeared as an orchard. 2020 - 2022: Subject property appeared as a crop field.
North	1937: Present-day Kilkenny Road existed to the north of the subject property and parcels beyond appeared as undeveloped or agricultural land. 1952 - 2022: By at least 1952, a residence/farm existed in the crop fields to the north of Kilkenny Road An irrigation ditch/canal existed along the northern subject property boundary since at least 1968. By a least 1984, a second residence/farm existed to the north of Kilkenny Road.
East	1937 - 1968: By 1937, present-day Byrnes Road existed and parcels to its east appeared as undeveloped or agricultural land. 1974 - 2020: Land to east of Byrnes Road appeared as crop fields. A large structure was present to the southwest of the subject property by at least 1993. Structures were present in the southeastern quadran of the intersection of Kilkenny and Byrnes Roads by 2006.
South	1937 - 2022: Appeared as a crop field from at least 1937 to 1993, an orchard from at least 2006 to 2016 and a crop field by at least 2020.
West	<ul> <li>1937: Appeared as crop fields.</li> <li>1952 - 1993: A residence/farm was constructed more than 1,000 feet to the west of the subject property by 1952.</li> <li>2006 - 2022: Appeared as an orchard.</li> </ul>

Further discussion of historic agricultural use of the subject property is provided in Section 3.4 of this report.



#### 3.2.3 Sanborn Fire Insurance Maps

Historical fire insurance maps are not available for the area of the subject property. A copy of the Sanborn fire insurance map no coverage letter is included in the prior Phase I ESA, Corby BESS Vacaville, Solano County, California (Dudek, April 2023) provided in **Appendix D**.

#### 3.2.4 Historical City Directories

Historical city directory information used in this study was obtained through the review of the prior Phase I ESA, Corby BESS Vacaville, Solano County, California (Dudek, April 2023). City directory listings were reviewed at approximately five-year intervals for two key streets associated with the subject property area, Kilkenny Road, and Byrnes Road. The directories reviewed were dated 1977 through 2020. Review of the city directories revealed mostly residences and farms in the subject property vicinity. However, several business listings were identified on adjoining properties. These business listings are summarized in the table below.

#### **Historical City Directories**

Road	Description	
Bymes Road	6796 Byrnes Road (adjoining southeast) Gold Key Property LLC - 2020 Korr Bioscience Corp 2017 and 2014, Synder Biotech Inc 2005 Synder Inc 2000, 1995, and 1992	
Wallace Road	5405 Kilkenny Road (adjoining north) Cole Electric - 1992, 1995 and 2000	

Based on the review of environmental databases, which contained no records for the facilities, the listings are not considered RECs. Copies of the city directories are included in the prior Phase I ESA, Corby BESS Vacaville, Solano County, California (Dudek, April 2023) provided in **Appendix D**.

#### 3.2.5 Subject Property Ownership/ Tax Files

The subject property is comprised of a single parcel of land identified with Solano County Assessor's Office parcel number 0141030090. Based on information provided by the user, Corby Energy Storage, LLC is the owner of the subject property. Solano County Assessor's parcel information in provide in Appendix D.

#### 3.2.6 Other Historical Sources

Other historical sources were not reviewed.

#### 3.3 Prior Report Review

A prior Phase I ESA for Corby BESS Vacaville, Solano County, California (Dudek, April 2023), was reviewed as part of this assessment. The prior Phase I ESA identified the subject property as an approximately 40-acre cultivated grass field located in Vacaville, Solano County, California. Key findings of the report were as follows:

• The subject property has been used for agricultural purposes since at least 1937 (grass crops from 1937 to 1997, orchards from 1997 to sometime after 2016, and a cultivated grass field by 2020).



- Permitted pesticides have been applied to the subject property since 2015. Quantities and application methods were reported to have been in accordance with manufacturer specifications.
- Adjoining properties include residential and grazing land to the north and agricultural land to the west, east and south.

The assessment did not reveal evidence of RECs, historical RECs (HRECs), controlled RECs (CRECs), or vapor encroachment conditions (VECs). However, historic agricultural use of the subject property was identified as an environmental concern. A copy of the prior Phase I ESA is provided in Appendix D.

#### 3.4 Standard Environmental Record Sources

Regulatory database information was provided by Environmental Risk Information Services (ERIS), a contract information services company. The purpose of the records review was to identify RECs in connection with the subject property. Information in this section is subject to the accuracy of the data provided by the information services company and the date at which the information is updated, and the scope herein did not include confirmation of facilities listed as "unplottable" by regulatory databases.

Listed hereafter are the facility listings identified on standard federal and state/tribal databases within the ASTM-required search distances from the approximate subject property boundaries. Database definitions, descriptions, and the database search report are included in Appendix E.

Database	Description	Distance (miles)	Listings
NPL	National Priorities List	1.0	0
NPL (Delisted)	Delisted National Priorities List	0.5	0
SEMS (CERCLIS)	Superfund Enterprise Management System (formerly Comprehensive Environmental Response, Compensation, & Liability Information System)	0.5	0
SEMSARCH (CERCLIS NFRAP)	Superfund Enterprise Management System Archived Site Inventory (formerly CERCLIS No Further Remedial Action Planned)	0.5	0
RCRA CORRACTS	RCRA Corrective Action Activity	1.0	0
RCRA Non- CORRACTS TSD	RCRA Non-Corrective Action Activity	0.5	0
RCRA Generators	Resource Conservation and Recovery Act	Subject property and adjoining properties	0
IC/EC	Institutional Control/Engineering Control Registries	Subject property	0
ERNS	Emergency Response Notification System	Subject property	0

#### **Standard Federal Databases**



#### Standard State Databases

Database	Description	Distance (miles)	Listing
RESPONSE	State Response Sites	1.0	0
ENVIROSTOR	EnviroStor Data Management System Sites	1.0	0
DELISTED ENVS	Delisted State Response Sites	1.0	0
SWF/LF	Solid Waste Information System Sites	0.5	0
SWRCB SWF	Solid Waste Disposal Sites with Waste Constituents Above Hazardous Waste Levels	0.5	0
WMUD	Waste Management Unit Database	0.5	0
HWP	EnviroStor Hazardous Waste Facilities	1.0	0
SWAT	Sites Listed in the Solid Waste Assessment test (SWAT) Program Report	0.5	0
C&D DEBRIS RECY	Construction and Demolition Debris Recyclers	0.5	0
RECYLING	Recycling Centers	0.5	0
PROCESSORS	Listing of Certified Processors	0.5	0
CONTAINER RECY	Listing of Certified Dropoff, Collection, and Community Service Programs	0.5	0
LDS	Land Disposal Sites	0.5	0
LUST	Leaking Underground Fuel Tank Reports	0.5	0
DELISTED LST	Delisted Leaking Storage Tanks	0.5	0
UST	Permitted Underground Storage Tank (UST) in GeoTracker	Subject property and adjoining properties	0
UST CLOSURE	Proposed Closure of Underground Storage Tank Cases	0.25	0
HHSS	Historical Hazardous Substance Storage Information Database	0.25	0
UST SWEEPS	Statewide Environmental Evaluation and Planning System	Subject property and adjoining properties	0
AST	Aboveground Storage Tanks	Subject property and adjoining properties	0
AST SWRCB	SWRCB Historical Aboveground Storage Tanks	0.25	0
TANK OIL GAS	Oil and Gas Facility Tanks	0.25	0
DELISTED TANK	Delisted Storage Tanks	0.25	0
CERS TANK	California Environmental Reporting System Tanks	0.25	0
DELISTED CTNK	Delisted California Environmental Reporting System Tanks	0.25	0
HIST TANK	Historical Hazardous Substance Storage Container Information - Facility Summary	0.25	0

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Database	Description	Distance (miles)	Listings
LUR	Site Mitigation and Brownfields Reuse Program Facility Sites with Land Use Restrictions	0.5	0
CAL SITES	Department of Toxic Substance Control (DTSC) Sites	0.5	0
HLUR	Hazardous Waste Management Program Facility Sites with Deed / Land Use Restrictions	0.5	0
DEED	Deed Restrictions and Land Use Restrictions	0.5	0
VCP	Voluntary Cleanup Program	0.5	0
CLEANUP SITES	GeoTracker Cleanup Program Sites	0.5	0
DELISTED COUNTY	Delisted County Records	0.25	0
GEOTRACKER	State Water Resource Control Boards' data management system	Subject property and adjoining properties	0
PFAS FED SITES	Per- and Polyfluoroalkyl Substances list by EPA	0.5	0
DRYCLEANERS	Drycleaning Facilities	0.25	0

#### **County Databases**

Database	Description	Distance (miles)	Listings
TOX SACRMNTO	Sacramento County - Toxic Site Cleanup List	0.5	0
HAZ SACRMNTO	Sacramento County - Master Hazardous Materials Facility List	0.25	0

#### **Tribal Databases**

Database	Description	Distance (miles)	Listings
INDIAN UST	Underground Storage Tanks on Tribal Lands	0.25	0
INDIAN LUST	Leaking Underground Storage Tanks on Tribal Lands	0.50	0
DELISTED IUST	Delisted Underground Storage Tanks on Tribal Lands	0.25	0
DELISTED ILST	Delisted Leaking Underground Storage Tanks on Tribal Lands	0.50	0

In addition to the above ASTM-required listings, other federal, state/tribal, and proprietary databases provided by the database information services company were reviewed. A list of the additional reviewed databases is included in the regulatory database report included in **Appendix E**.

The ERIS database report identified no facility listings for the subject property or within ASTM specified distances of the subject property. However, one unplottable listing was identified. Unplottable facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the subject property. Based on the limited information provided by the ERIS database report, which



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included the facility name, Gurmail Singh, who is listed as the former subject property owner on the Owner Questionnaire, and an address of Kilkenny Vacaville, CA, the unplottable facility is suspected to include the subject property. The facility is listed on the Solano County Certified Unified Program Agency (CUPA) list. Its listing is likely related to permitted agrichemical application activities.

In response to a request for information regarding the application of agrichemicals on the subject property, the Solano County Department of Agricultural Weights and Measures provided a spreadsheet, a copy of which is provided in **Appendix D**, listing the types and quantities of agrichemicals applied since 2015. The spreadsheet also indicted that there were no permit violations. Given that there were no permit violations and no agrichemicals is not considered a REC. However, historic agricultural use of the subject property is considered an environmental concern as residual agrichemical constituents, including organochlorinated compounds and metals, may be present in surficial soils. Given the proposed commercial/industrial use of the subject property, concentrations of the residual agrichemical constituents are considered likely to be below applicable risk-based levels; but their potential presence should be considered when evaluating potential risks.

3.5 Additional Environmental Record Sources

3.5.1 Local Lists of Hazardous Waste/ Contaminated Sites

In addition to review of the environmental database report, federal and State of California GIS shapefiles and geodatabases were reviewed to identify facilities of environmental concern. The reviewed pertinent federal and state databases, which may duplicate the ERIS database search, included:

Federal Sources

- National Pipeline Mapping System (NPMS) Public Viewer
- US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES)
- US EPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)
- US EPA Resource Conservation and Recovery Act Information System (RCRAInfo) generators, transporters, treaters, storers, and disposers of hazardous waste
- US EPA Cleanups in My Community Map
- US EPA UST Finder
- US EPA PFAS Analytical Tool
- US Army Corps of Engineers Formerly Used Defense Sites (FUDS)
- Asbestos mines, prospects, and occurrences in the United States
- Petroleum product terminals and refineries
- Coal mines
- US DOT National Pipeline Mapping System
- US Bureau of Land Management Mining Claims in the U.S.

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0



#### State of California

- Department of Conservation, Geologic Energy Management Division
  - o Well Finder
  - Naturally occurring oil & gas seeps
- California Department of Environmental Protection (CalEPA)
  - Solid Waste Information System (SWIS)
- State Water Resource Control Board (SWRCB) GeoTracker
  - o LUST Cleanup Sites
  - o Cleanup Program Sites
  - Military Cleanup Sites
  - DTSC Cleanup Sites
  - Permitted USTs
  - o DTSC Hazardous Waste Sites
  - o Land Disposal Sites
  - o Oil-Gas Sites
  - PFAS Sites
- Department of Toxic Substance Control (DTSC) EnviroStor
  - o Federal Superfund
  - o State Response
  - Voluntary Cleanup
  - o School Investigation and Cleanup
  - Military Evaluation
  - Corrective Action
  - o Land Use (Deed) Restrictions Sites

The review of the above federal and state databases revealed no facility listings in the subject property vicinity except for the NPMS Public Viewer. The NPMS Public Viewer indicates that a northwest-southeast oriented natural gas transmission pipeline traverses the southern portion of the subject property. The pipeline is active and operated by Pacific Gas and Electric (PG&E). A map showing the location of the pipeline is provided in **Appendix D**.

#### 3.5.2 Local Agency Inquiry

On July 1, 2024, a request for information regarding the application of agrichemicals on the subject property, was made with the Solano County Department of Agricultural Weights and Measures. The response received from the county was discussed in Section 3.4 of this report.

The Solano County Resource Management Division and Department of Environmental Health Hazardous Materials Division, were not contacted as part of this assessment as a prior Phase I ESA, completed in April 2023, indicated these county agencies were either non-responsive or their records contained no information regarding the subject property.



### 4.0 SITE RECONNAISSANCE

#### 4.1 Methodology and Limiting Conditions

Information contained in this section is based on a visual reconnaissance and inspection conducted within the subject property and the accessible interior areas of structures, if any, located within the subject property. The reconnaissance was conducted by traversing the subject property area by vehicle and/or by foot. The reconnaissance also included review of aerial photography and aerial flyovers using a small, unmanned aircraft system (SUAS/drone) to "ground truth" observations and to view inaccessible areas. The purpose of the site reconnaissance is to assess potential environmental concerns at the subject property and to identify RECs. Photographic documentation of the subject property at the time of the visual reconnaissance is provided in **Appendix B**. Credentials of the individual planning and conducting the subject property visit are included in **Appendix G**.

#### 4.2 General Subject Property Information

Inspector	Peter LaForge
Reconnaissance Date	June 24, 2024
Weather Conditions	Sunny, high 90s °F
Subject Property Contact and Title	Nadan Omercajic, Environmental Services Project Manager, NextEra Energy Resources, facilitated site access.
General Site Setting	The subject property exists within a rural area approximately 1-mile east of interstate Highway 80. The surrounding area appears as mix of low-density residential properties and agricultural land (crop fields, pastures, and orchards).

#### Structures

No structures exist on the subject property.

Potable Water Source	The subject property does not appear to have a source of potable water
Irrigation Water Source	The subject property does not appear to be irrigated.
Wastewater	Wastewater does not appear to be generated on the subject property
Electricity	Electricity does not appear to be supplied to the subject property
Natural Gas	Natural gas does not appear to be supplied to the subject property.



#### 4.3 Overview of Current Subject Property Occupants and Operations

The subject property is an unirrigated crop field which appeared fallow and covered with native grass at the time of site reconnaissance.

#### 4.4 Subject Property Observations

The following table summarizes subject property observations. Items observed during the site reconnaissance, records review or from interviews are denoted by an "X" and are discussed in more detail following the table, as appropriate.

Category	Item or Feature	Observed or Identified
	Hazardous substances and petroleum products in connection with identified uses	
	Aboveground liquid storage tank systems	
	Underground liquid storage tank systems	
Property and	Drums and containers	
Structure	Pools of liquid	
Observations	Odors	
	Oil-water separators, clarifiers, sand traps, triple traps, interceptors, or grease traps	
	Electrical Transformers/ PCBs	Х
	Other processes or equipment	
	Heating/cooling systems	-
Structure	Stains and corrosion	
Observations	Drains and sumps	_
	Other structure observations	

### Observations

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Category	Item or Feature	Observed or Identified
	Pits, ponds, ditches, streams, or lagoons	X
	Stained soil or pavements	
	Stressed vegetation	
	Solid waste disposal areas	
Property	Construction/demolition debris and/or dumped fill dirt	
Observations	Pipeline markers	
	Wells	
	Wastewater discharge	
	Septic tanks and/or leach fields	
	Other property observations	

#### Electrical Transformers/ PCBs

Pole-mounted electrical transformers were observed along Kilkenny and Byrnes Roads (near the north boundary of the subject property). There were no indications of releases, ground surface staining or stressed vegetation in the vicinity of the transformers.

#### Pits, ponds, ditches, streams, or lagoons

An irrigation ditch/canal abuts the northern subject property boundary. There were no indications of sheens on the water surface of the ditch/canal.

#### 4.5 Adjoining Properties

The uses of the adjoining properties identified during vicinity site reconnaissance, as seen from the subject property boundaries and nearby public rights-of-way, are described hereafter.

Direction	Use Description
North	An irrigation ditch/canal, Kilkenny Road, and a residence with barns and pastures
East	Byrnes Road followed by a crop fields. Several conex boxes/shipping containers and an apparent derelict boat were observed in a portion of the one of the fields.
South	Unirrigated crop field covered with native vegetation (grasses) at the time of site reconnaissance
West	Orchard

RECs were not identified in connection with observed adjoining property uses or operations.



### 5.0 INTERVIEWS

#### 5.1 Interviews with Past and Present Property Owners

The former landowner, Gurmail Singh, was interviewed by way of an environmental questionnaire to obtain information on the operations, history, and environmental conditions of the subject property. The landowner responded to the questionnaire on May 7, 2024. The questions and landowner responses are provided below:

- To the best of your knowledge, has the subject property ever been used for an industrial purpose or manufacturing? No
- To the best of your knowledge, has the site or any adjoining properties ever been used as a gasoline service station, automotive repair facility, commercial printing facility, dry cleaner, junkyard, landfill, or as a waste treatment, storage, disposal, processing, or recycling facility? *No*
- To the best of your knowledge, has there ever been any storage, use, generation, or disposal of automotive, industrial, or agricultural chemicals, batteries, solvents, petroleum products, pesticides, or related regulated chemicals?? *The landowner provided no response.*
- To the best of your knowledge, has the subject property maintained drums, containers (greater than 5 gallons), or registered/unregistered underground/ aboveground storage tanks for chemical, petroleum or other regulated substance storage? *No*
- To the best of your knowledge, has fill soil been imported to the site? Na
- To the best of your knowledge, are there any, pits, ponds, or lagoons located on the site currently or formerly, which have been infilled? *No*
- To the best of your knowledge, are you aware of any septic tanks systems, oil-water separators, floor drains, in-ground hydraulic lifts or sumps on the site? *No*
- To the best of your knowledge, does the site utilize water wells for irrigation, potable and/ or industrial use purposes? No
- Does the site contain any electrical transformers, capacitors or hydraulic equipment that may contain polychlorinated biphenyls (PCBs)? *The landowner provided no response.*
- Are you aware of any petroleum or hazardous waste discharges or releases to the environment, or contamination impacts to the site soil, groundwater, or surface waters? *No*
- Are you aware of any pending, threatened, or past environmental litigation, proceedings, or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the subject property? No
- Are you aware of any past environmental assessment report(s) prepared for the subject property? If yes, are you able to provide a copy of the prior reports? No

Review of the former landowner's responses revealed no RECs. A copy of the questionnaire completed by the landowner is provided in **Appendix F**.

#### 5.2 Interviews with Past and Present Property Occupants

The property is unirrigated, fallow agricultural land and there are no occupants or active farmers.



#### 5.3 Interviews with State and/or Local Government Officials

Refer to Section 3.5.2 for interviews/inquiry with state and local government officials.

5.4 Interviews with Others

No other interviews were conducted.

### 6.0 ADDITIONAL SERVICES

Additional services were not completed as part of this assessment.

### 7.0 **OPINIONS AND CONCLUSIONS**

This Phase I ESA was performed in conformance with the scope and limitations of ASTM Practice E1527-21 for the Corby BESS Project, located in the southwestern quadrant of the intersection of Kilkenny and Byrnes Roads in Vacaville, Solano County, California. Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report. This assessment has revealed the following no RECs, controlled recognized environmental conditions (CRECs), and/or significant data gaps in connection with the subject property.

While not considered a REC per ASTM, historic agricultural use of the subject property may have resulted in the presence of residual agrichemical constituents, including organochlorinated compounds and metals, in surficial soils. Given the proposed commercial/industrial use of the subject property, concentrations of the residual agrichemical constituents are considered likely to be below applicable risk-based regulatory levels; but their potential presence should be considered when evaluating potential risks.

### 8.0 **RECOMMENDATIONS**

Based on the scope of services, limitations, and conclusions of this assessment, RECs were not identified in connection with the subject property. Unless required by the regulatory agency to evaluate the potential presence of residual agrichemical constituents in surficial soils, supplemental investigation of the subject property does not appear warranted at this time.

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### 9.0 **REFERENCES**

- ASTM E1527-21, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process;
- California DTSC EnviroStar https://www.envirostor.dtsc.ca.gov/public/map/;
- California State Water Resource Control Board Geo Tracker, https://geotracker.waterboards.ca.gov/;
- California Department of Conservation, Geologic Energy Management Division Well Finder, https://www.conservation.ca.gov/calgem/Pages/WellFinder.aspx;
- California Environmental Protection Agency (CalEPA), CalRecycle Solid Waste Information System (SWIS), https://www2.calrecycle.ca.gov/SolidWaste/Site/Search;
- CalEPA, https://calepa.ca.gov/sitecleanup/;
- Dudek, Phase I Environmental Site Assessment, Corby BESS Vacaville, Solano County, California
- ERIS, Radius (environmental database) Report, Order #24060501801, June 6, 2024;
- Google Earth Pro, 2023 Aerial Images;
- National Agriculture Imagery Program (NAIP), aerial photograph imagery, dated 2022;
- National Pipeline Mapping System, Public Viewer, https://pvnpms.phmsa.dot.gov/PublicViewer/
- Solano County Assessor Parcel Viewer, https://casolano.publicaccessnow.com/Assessor/PropertySearch.aspx;
- Sacramento County Open Data Hub, <u>https://data-sacramentocounty.opendata.arcgis.com/;</u>
- US Army Corps of Engineers, FUDS Geographic Information System, https://www.usace.army.mil/Missions/Environmental/Formerly-Used-Defense-Sites/FUDS-GIS/;
- U.S Bureau of Land Management, Mine Claims database map, https://thediggings.com/usa;
- U.S EPA EnviroMapper; <u>https://www.epa.gov/emefdata/em4ef.home;</u>
- U.S EPA UST Finder; https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=c220c67462e14763a8e0c4df75550278
- U.S EPA Cleanups in My Community Map; <u>https://map22.epa.gov/cimc/;</u>
- USGS Asbestos mines, prospects, and occurrences in the US shapefile, https://mrdata.usgs.gov/asbestos/USGS Geologic Maps, https://mrdata.usgs.gov/geology/state/; and
- US DOT National Pipeline Mapping System GIS Public Map Viewer, https://www.npms.phmsa.dot.gov/;
- USDA Natural Resource Conservation (NRCS) Web Soil Survey, https://websoilsurvey.sc.egov.usda.gov;
- USGS Geologic Maps, https://mrdata.usgs.gov/geology/state/; and



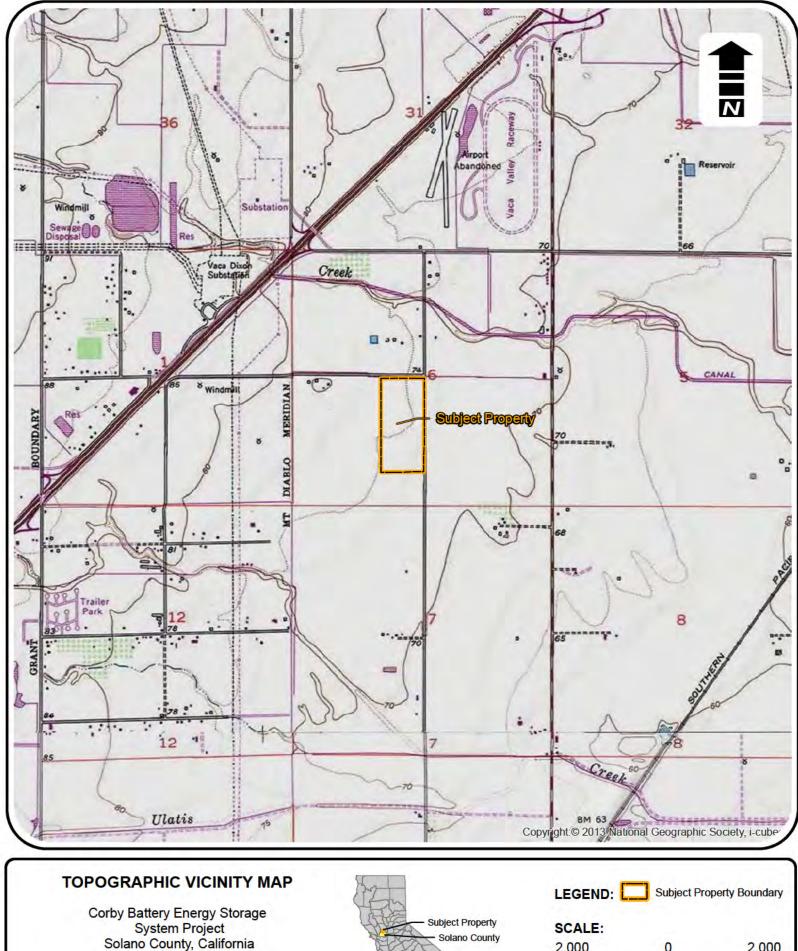
### 10.0 ENVIRONMENTAL PROFESSIONAL STATEMENT

This Phase I ESA report was prepared, completed, and approved by Mr. Peter LaForge, Environmental Professional, with review completed by Andrew Petric, P.G. Qualifications of personnel participating in this assessment are provided in **Appendix F**.

I, Peter LaForge, declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312; and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the All-Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

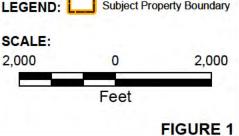
Peter LaForge, P.G. (FL) Environmental Services Project Manager

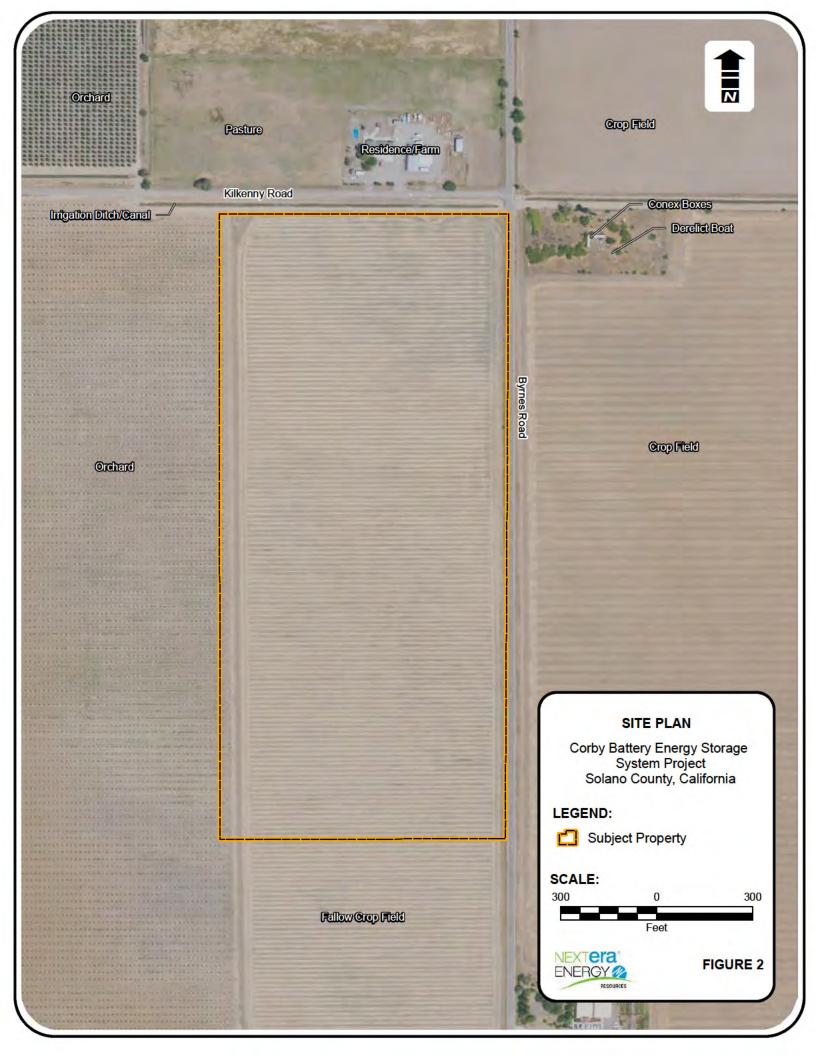
## APPENDIX A FIGURE 1 – TOPOGRAPHIC VICINITY MAP FIGURE 2 – SITE PLAN



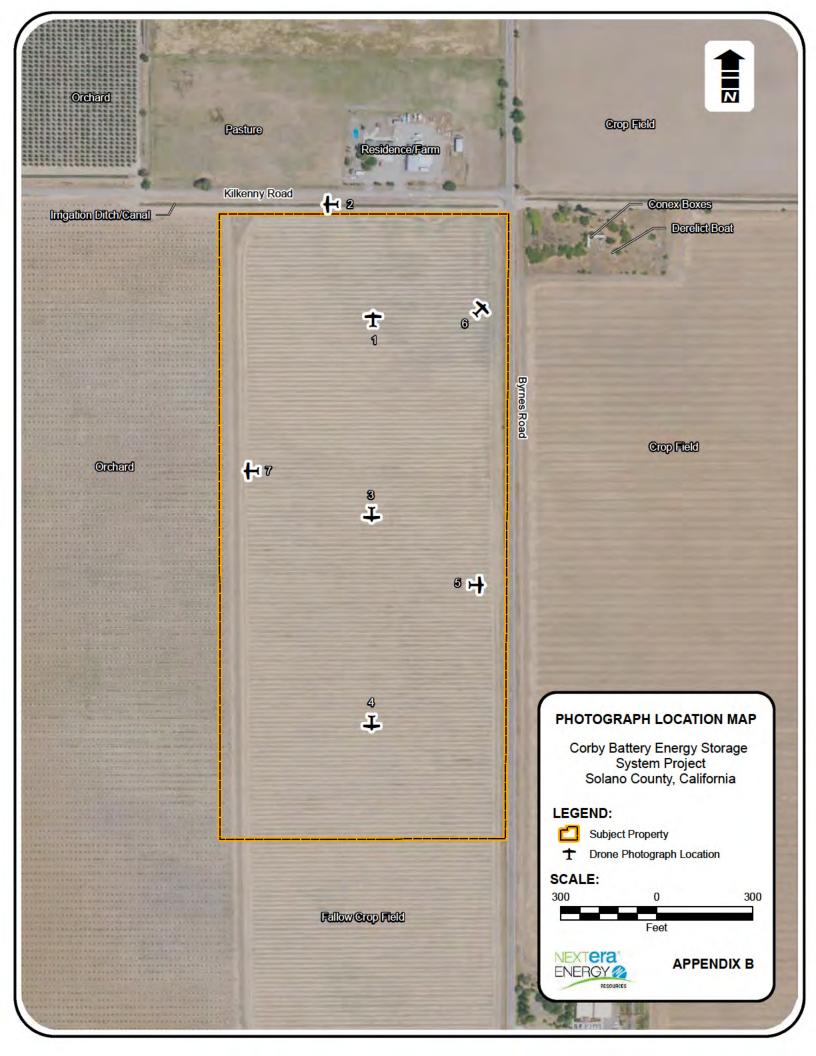








APPENDIX B SUBJECT PROPERTY PHOTOGRAPHS



Corby Battery Energy Storage SystemProject Solano County, California Date Photos Taken: June 24, 2024





**Photo #1** General view northern portion of the subject property (foreground) and adjoining property to the north (background).



**Photo #3** General view central portion of the subject property.



**Photo #5** Byrnes Road and adjoining crop field to the east.



**Photo #2** Irrigation Ditch/canal and Kilkenny Road along northern subject property boundary.



**Photo #4** General view southern portion of the subject property (foreground) and adjoining property to the south (background).



**Photo #6** Conex box and derelict boat in portion of adjoining crop field to the east.

Corby Battery Energy Storage SystemProject Solano County, California Date Photos Taken: June 24, 2024





**Photo #7** Orchard on adjoining property to the east.

## APPENDIX C USER QUESTIONNAIRE



### ASTM-E1527-21 User Questionnaire

When the "User" of the Phase I ESA is required to make specific inquiries to assist the Environmental Professional (EP) in identifying recognized environmental conditions (RECs) at the site, a "User Questionnaire" is completed to help gather information that may identify RECs at the site.

We ask that you answer the six questions listed below to the best of your knowledge. We understand, that in some circumstances, you may have little to no information. Still, we request that you complete and return the questionnaire as soon as possible and prior to the EP site visit. This will allow us to reflect the fact that the Questionnaire was completed when we issue the report as is required. Completion of the assessment to the new standard, when conducted in connection with the asset purchase of real property, may entitle the user to certain federal liability protections that result from conducting "All Appropriate Inquiries" into the previous ownership and use of a property.

On the second page of this form is a list of documents that the user may have available. The ASTM standard requires that the User will ensure that the EP is made aware that any of these materials exist for a site, and if so, that these documents be provided for the EP's review. Pleas indicate whether any of these documents are available, and ensure that NextEra Energy Resources Environmental Services will either receive copies or be provided an opportunity to review the relevant materials.

We appreciate your assistance. Please feel free to contact NextEra Energy Resources Environmental Services should you have any questions.

Site Name: Corby Energy Storage, LLC (0141-030-090)

Site Address/ Location: Byrnes Road & Kilkenny Road, Vacaville, CA 95687 (38.392461 -121.907475)

- 1) Did a search of recorded land title records identify any environmental liens filed or recorded against the site under federal, tribal, state or local law? No
- 2) Did a search of recorded land title records identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place for the site and/or have been filed or recorded against the site under federal, tribal, state or local law? No but there is an existing PG&E gas line
- **3)** Does the user have any specialized knowledge or experience related to the site or nearby properties? For example, are you involved in the same line of business as the current of former occupants of the property and an adjoining property so that you have specialized knowledge of the chemicals and process used by this type of business? No
- 4) Does the purchase price being paid for the site reasonably reflect the fair market value of the site? Yes
- 5) Is the user aware of commonly known or reasonably ascertainable information about the site that would help the Environmental Professional to identify conditions indicative of releases or threatened releases? For example, (a) do you know the past uses of the property? (b) Do you know specific chemicals that are present or once were present at the property? (c) Do you know of spills or other chemicals releases that have taken place on the property? (d) Do you know of any environmental cleanups that have taken place at the property? Used for farming (e.g., row crops)
- **6)** Based on the user's knowledge and experience related to the site, are there any obvious indicators that point to the presence or likely presence of contamination at the site? No



#### As part of this Study, which of the following documents do you have available?

- 1) Previous environmental assessment reports Yes □ No
- 3) Environmental permits (including but not limited to solid waste disposal permits, hazardous waste disposal permits, wastewater permits, NPDES permits, underground injection permits) □ Yes No
- 4) Registrations for underground and aboveground storage tanks  $\Box$  Yes  $\blacksquare$  No
- 5) Registrations for underground injection systems □ Yes No
- 6) Material safety data sheets and safety data sheets □ Yes No
- 7) Community Right-to-Know Plans □ Yes No
- 8) Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plants, facility response plans, etc. □ Yes No
- 9) Reports regarding hydrogeologic conditions of the property or surrounding area  $\Box$  Yes  $\blacksquare$  No
- 10) Notice of Violations (NOVs) or other correspondence from any government agency relating to past of current violations of environmental regulations with respect to the property or relating to environmental liens encumbering the property □ Yes No
- 11) Hazardous waste generator notices or reports □ Yes No
- 12) Geotechnical studies  $\Box$  Yes  $\blacksquare$  No (initial mobilized on 7/9/2024)
- 13) Risk assessments  $\Box$  Yes  $\blacksquare$  No
- 14) Recorded Activity and Use Limitations (AULs) □ Yes No

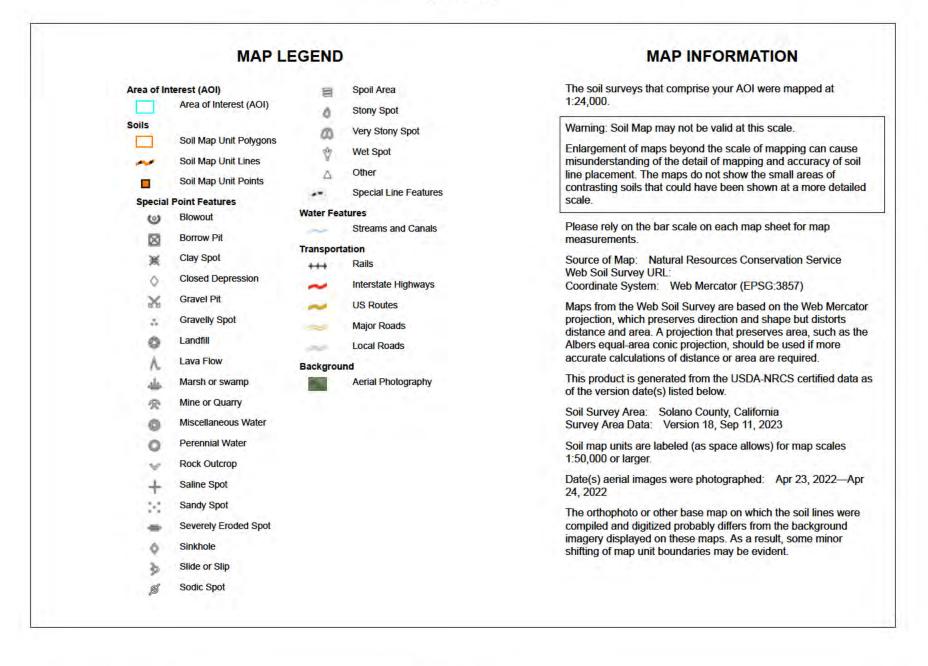
Completed By:	Stephen Ahn
Signature:	Stephen Ahn
Title:	Project Director
Company:	Corby Energy Storage, LLC on behalf of NextEra Energy Resources, LLC
Relationship to the site:	Project Owner
Date:	7/10/2024

Please return a copy of the completed User Questionnaire form to NextEra Energy Resources Environmental Services via email to: <u>peter.laforge@nexteraenergy.com</u>.

APPENDIX D HISTORICAL DOCUMENTATION AND RECORDS



Web Soil Survey National Cooperative Soil Survey



USDA

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Cc	Capay clay, 0 percent slopes, MLRA 17	4.1	10.1%
CeA	Clear Lake clay, 0 to 2 percent slopes, MLRA 17	4.1	10.1%
SeA	San Ysidro sandy loam, 0 to 2 percent slopes	18.1	44.9%
SfA	San Ysidro sandy loam, thick surface , 0 to 2 percent slopes	9.0	22.3%
Yr	Yolo loam, clay substratum	5.1	12.6%
Totals for Area of Interest		40.3	100.0%

## Due to the transition to a new tax year

## outstanding tax bill amounts and online payments are currently unavailable.

We sincerely apologize for any inconvenience.

Please contact our office at TTCCC@solanocounty.com or (707) 784-7485 for assistance.



Property Information

APN:	
0141030090	
Neighborhood:	
Unassigned	
Legal Description:	
Lot: 3 Parcel: YES	

**Property Address:** Unknown Unknown Ca Class: 5000 - Agricultural Property TAG: 063025



## 🐣 Ownership History

Effective Date	Document Number	Ownership Interest (%)
9/28/23	202300042087	100.00
4/22/15	201500032967	25.00
4/22/15	201500032967	25.00
4/22/15	201500032967	50.00
12/30/03	BORN-OTHR-230330	100.00
12/30/03	BORN-OTHR-230330	100.00

## S Transfer History

Sale Date	Document Number	Book	Page
9/28/23	202300042087		
4/22/15	201500032967	0045	0033
12/30/03	BORN-OTHR-230330	0045	0033
12/30/03	BORN-OTHR-230330	0045	0033

7/2/24, 4:21 PM

**Event Date** 

## **Value History**

▲ Tax Year : 2024 Ass

4	2024 Assessment ID : 2014963					
	Value Type	Assessment Event	Roll Caste	Change Reason	Attribute	
	A accorrect \ (alua	Annual	Annual		l mana kana ant	~

1/1/24	Assessment Value	Annual	Annual		Improvement	\$55,740.00
1/1/24	Assessment Value	Annual	Annual		Land	\$181,389.00
1/1/24	Assessment Value	Annual	Annual		Living Improvements	\$247,168.00
					Value Type	<b>Total</b> : \$484,297.00
1/1/24	Factored Base Year Value	Annual	Annual		Improvement	\$55,740.00
1/1/24	Factored Base Year Value	Annual	Annual		Land	\$181,389.00
1/1/24	Factored Base Year Value	Annual	Annual		Living Improvements	\$247,168.00
Value Type Total: \$484,297.00						
1/1/24	Net Taxable Value	Annual	Annual			\$484,297.00

Value Type Total: \$484,297.00

Amount

- ▼ Tax Year : 2023 Assessment ID : 1437697
- Tax Year : 2022 Assessment ID : 1286872  $\mathbf{v}$
- Tax Year: 2021 Assessment ID: 1135377
- ▼ Tax Year : 2020 Assessment ID : 985153
- Tax Year: 2019 Assessment ID: 835729  $\mathbf{v}$
- ▼ Tax Year : 2018 Assessment ID : 688098
- ▼ Tax Year : 2017 Assessment ID : 541634

## ☆ Property Features

Year Built	Feature	Size	Size Description
N/A	Unknown Trees/Vines	0.00	Crop Block Acreage

## Land Information

Land Type	Description	Acreage	Use Type
Legacy Land	LandLine 001, 0141030090 / Legacy Land	40.30	Unavailable

Land Use Type	Use Type	Acreage
Land use inform	mation is not available for this record.	

## Buildings / Structure Info.

Building	Year Built	Grade
Building 001, 0141030090	Not available	5000 - Agricultural Property

# Phase I Environmental Site Assessment **Corby BESS Vacaville,** Solano County, California

**APRIL 2023** 

Prepared for:

**NEXTERA ENERGY RESOURCES, LLC** 

700 Universe Boulevard Juno Beach, Florida 33408

Prepared by:



Corporate Office: 605 Third Street Encinitas, California 92024

Suran Smith, PG Geologist Micole Jucker

Nicole Tucker, GIT Geologist

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## Acronyms and Abbreviations

Acronym/Abbreviation	Definition
AST	aboveground storage tank
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CREC	controlled recognized environmental condition
EDR	Environmental Data Resources
ESA	Environmental Site Assessment
HREC	historical recognized environmental condition
pCi/L	picocuries per liter
PG&E	Pacific Gas and Electric
REC	recognized environmental condition
VEC	vapor encroachment condition

## 1 Executive Summary

Dudek conducted a Phase I Environmental Site Assessment (ESA) for approximately 40 acres of land located in Vacaville, Solano County, California (subject property; see Figure 1, Subject Property Location). The subject property is located on Assessor's Parcel Number 0141030090.

The findings of this investigation are based on historical sources, information contained in regulatory agency databases, interviews, and a site reconnaissance.

- The subject property has been used for agricultural purposes since at least 1937 (grass crops from 1937 to 1997, orchards from 1997 to sometime after 2016, and a cultivated grass field by 2020).
- Permitted pesticides have been applied to the subject property since 2015. Quantities and application methods have been per manufacturer specifications.
- Adjoining properties to the main portion of the subject property include residential and grazing land to the north and agricultural land to the west, east and south.

This assessment did not reveal evidence of recognized environmental conditions (RECs), historical RECs (HRECs), controlled RECs (CRECs), or vapor encroachment conditions (VECs) in connection with the subject property.

The following environmental concern was identified:

 Due to the historical and current agricultural use of the subject property, there is a potential for elevated concentrations of pesticide- and herbicide-related compounds in surface soils. As the proposed redevelopment is commercial, the accumulated concentrations are likely below risk-based concentrations associated with commercial development; however, the potential presence of these chemicals should be considered when evaluating future risk.

Dudek performed this Phase I ESA of the subject property in conformance with the scope and limitations of ASTM Standard E2247-16, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property. This report summarizes the research and findings of the Phase I ESA. Data gaps, which were determined not to be significant, are discussed in Section 13.1, Data Gaps and Data Failures. As per ASTM Standard E2247-16, this Phase I ESA expires on September 27, 2023.

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FIGURE 1 Subject Property Location Corby BESS Phase I ESA

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210

420 Feet

## 2 Introduction

This Phase I ESA was performed according to the guidelines stipulated in the ASTM Standard E2247-16, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Properties (ASTM E2247-16) (ASTM 2016). This Phase I ESA is being conducted on behalf of NextEra Energy Resources, LLC, as part of environmental due diligence for development of a renewable energy project on the subject property.

## 2.1 Assessment Procedure and Scope of Investigation

Phase I ESAs assist in identifying past and present land use, including identification of possible releases or disposal of manufacturing or other wastes if such information is contained within regulatory reports or files and/or is currently visible on site. The assessment reviews federal (U.S. Environmental Protection Agency), state, county, and local lists of known or potentially hazardous waste sites, landfills, and sites currently under investigation for environmental violations that may be of concern to a site.

The scope of this environmental investigation consisted of (1) a reconnaissance of the subject property; (2) a search of regulatory agency records; (3) a review of available historical aerial photographs, topographic maps, Sanborn fire insurance maps, city directory listings, and building department records; (4) interviews with the owner of the subject property and user of this report; and (5) preparation of this Phase I ESA report detailing the findings of the investigation.

These activities were conducted to identify RECs. The term *recognized environmental condition* (REC) means the presence or likely presence of any hazardous substances or petroleum products in, on, or at the subject property due to a release, likely release, past release, or material threat of a future release to the environment.

The term *controlled recognized environmental condition* (CREC) is an environmental condition that would have been considered a REC in the past but that has been remediated and received risk-based closure by a regulatory agency (i.e., received a No Further Action letter) where residual contamination remains in place. Furthermore, the term *CREC* is used if the property is subject to a control or use restriction (i.e., property use restrictions, activity and use limitations, institutional controls, or engineering controls) due to residual on-site contamination.

The term *historical recognized environmental condition* (HREC) is an environmental condition that would have been considered a REC in the past but that has been remediated and received unrestricted residential use closure by the regulatory agency. Therefore, no controls or use restrictions have been applied to the property.

The term *REC* is not intended to include de minimis conditions. De minimis conditions are conditions that generally do not present a material risk of harm to public health or the environment and thus would not be subject to an enforcement action if brought to the attention of governmental agencies.

## 2.2 Qualifications of Environmental Professionals

This Phase I ESA was prepared by Susan Smith, geologist; Nicole Tucker, geologist; and Jamie Schnieders, hydrologist. Qualifications for Ms. Smith, Ms. Tucker, and Ms. Schnieders are included in Appendix A.

DUDEK

I, Susan Smith, declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in Section 312.10 of 40 Code of Federal Regulations Part 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 Code of Federal Regulations Part 312.

## 3 Site Location

The subject property consists of approximately 40 acres of land located on one parcel (Assessor's Parcel Number 0141030090) in unincorporated Vacaville, Solano County, California.

The subject property abuts Byrnes Road along the eastern boundary and Kilkenny Road along the northern boundary. Highway 80 is located 0.6 miles northwest of the subject property. The subject property currently consists of a cultivated grass field. An irrigation canal is located along the northern boundary and a roadside ditch is located on the eastern boundary of the subject property

The main portion of the subject property is adjoined by a residential property and a grazing field to the north, an orchard to the west, cultivated grass field (similar to the subject property) to the south, and a structure surrounded by vegetation and an uncultivated field to the east. Surrounding properties consist of rural residential properties, agricultural land, a small former biotech building, a honeybee genetics business, and a couple commercial businesses.

## 4 Environmental Setting

## 4.1 Topography and Geology

The subject property is located to the northeast of Vacaville, California, over a half mile east of Interstate 80.

General topographic information for the subject property and the surrounding area was obtained from a review of topographic maps (Appendix B), the Environmental Data Resources (EDR) Radius Map Report (Appendix C), and a site visit. The natural topography of the subject property is relatively flat with an overall gentle downward slope toward the east-southeast. The subject property sits at an average elevation of 78 feet above mean sea level.

No subsurface geologic investigations were performed as part of this Phase I ESA. According to the EDR Radius Map Report (Appendix C), the subject property is underlain by San Ysidro sandy loam and loam with clayey soil components. These soils have fine texture and moderate to slow infiltration rates.

## 4.2 Groundwater

According to the EDR Radius Map Report (Appendix C), there are 16 water wells located within 1 mile of the subject property, three of which are depicted adjoining the subject property to the north. Dudek reviewed information on the California Water Boards Groundwater information system and did not identify any wells located on the subject property (GAMA 2023). Dudek reviewed nearby monitoring sites on GeoTracker to obtain information about groundwater near the subject property. A site located 1.3 miles west of the subject property measured depth to water ranging from 13.5 to 18.3 feet below ground surface (bgs) in 2021 with a flow direction toward the southeast (Parsons 2021)

## 4.3 Agricultural Use

The subject property is currently a cultivated grass field. Historical resources (see Section 8, Site History) indicate the subject property has been used for agricultural purposes from at least 1937 through present. The subject property has been used for orchards from as early as 1997 until sometime after 2016; the subject property was cleared and replaced with a cultivated grass field by 2020. The current owner of the subject property confirmed the use of pesticides but did not specify that they were permitted by the California Department of Pesticide Regulation in the site representative interview. No evidence was identified of pesticide storage or mixing, application misuse, or other potential sources of elevated concentrations of contaminants of concern typically associated with farming operations during the site reconnaissance. Dudek also received requested records from the Solano County Department of Weights and Measures which included all permitted quantities, methods and type of pesticides applied to the subject property since 2015 (see Section 6.3.1.4).

The chemicals of concern associated with pesticides and herbicides, such as organochlorinated compounds and metals, are bioaccumulative and persistent in shallow soils. Therefore, the longer a property is used for agricultural purposes, the more likely there is an accumulation of these chemicals of concern. Considering the former and present uses of the property, there is a potential for elevated concentrations of pesticide and herbicide-related compounds in surface soils. Because the proposed redevelopment is commercial, the accumulated concentrations are likely below risk-based concentrations associated with commercial development; however, the potential presence of these chemicals should be considered when evaluating future risk.



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## 5 Regulatory Agency Records Search Review

The regulatory database search gives a listing of sites within up to a 1-mile radius of a subject property ("target property" is the term used by EDR) that are known to be chemical handlers or hazardous waste generators or have reported releases of hazardous substances or petroleum products. Information in these listings includes the location of the site relative to the subject property, type of potential environmental concern present, and the status of the site. On March 27, 2023, EDR provided the database search for this Phase I ESA.

Table 1 summarizes databases that provide information on hazardous materials and petroleum products on the subject property. The comprehensive list of databases is included in the EDR Radius Map Report (Appendix C).

Acronym	Database	Search Distance*	Subject Property Listed?	Number of Surrounding Sites Listed
NPL	National Priorities List (including proposed NPL sites and NPL Liens [target property only])	1 mile	No	0
Proposed NPL	Sites proposed for NPL	1 mile	No	0
Delisted NPL	NPL Deletions	1 mile	No	0
CERCLIS - Federal Facility	Comprehensive Environmental Response, Compensation, and Liability Information System for the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) with U.S. Environmental Protection Agency Federal Restoration and Reuse Office involvement	0.5 miles	No	0
CERCLIS - SEMS	CERCLA Superfund Enterprise Management System	0.5 miles	No	0
CERCLIS NFRAP (SEMS ARCHIVE)	No Further Remedial Action Planned – CERCLA SEMS Archive	0.5 miles	No	0
CORRACTS	Resource Conservation and Recovery Act (RCRA) Corrective Action	1 mile	No	0
RCRA TSDF	RCRA – Transportation, Storage, and Disposal Facilities	0.5 miles	No	0
RCRA-LQG	RCRA Large Quantity Generators	0.25 miles	No	0
RCRA-SQG	RCRA Small Quantity Generators	0.25 miles	No	0
RCRA-VSQG	RCRA Very Small Quantity Generators	0.25 miles	No	0
ERNS	Emergency Response Notification System	Target property	No	0
LUCIS	Land Use Control Information System – Institutional Control/Engineering Control	0.5 miles	No	0

#### **Table 1. Regulatory Database Search Summary**



Acronym	Database	Search Distance*	Subject Property Listed?	Number of Surrounding Sites Listed
US ENG CONTROLS	Federal sites with Engineering Controls	0.5 miles	No	0
US INST CONTROLS	Federal sites with Institutional Controls	0.5 miles	No	0
SWF/LF	State and Tribal Landfill and/or Solid Waste Disposal Site	0.5 miles	No	0
SHWS	State-Funded Action Sites	1 mile	No	0
LUST	State Leaking Underground Storage Tank	0.5 miles	No	0
LAST	State Leaking Aboveground Storage Tank	0.5 miles	No	0
Indian LUST	Tribal LUST	0.5 miles	No	0
AST	State and Tribal Registered Aboveground Storage Tank	0.25 miles	No	0
UST	State and Tribal Registered Underground Storage Tank	0.25 miles	No	0
Indian UST	Registered Underground Storage Tank on Tribal Land	0.25 miles	No	0
FEMA UST	Federal Emergency Management Agency (FEMA)-owned Registered UST	0.25 miles	No	0
FF Tanks	Federal Facilities with Storage Tanks	0.25 miles	No	0
Indian VCP	Voluntary Cleanup on Tribal Land	0.5 miles	No	0
VCP	State and Tribal Voluntary Cleanup	0.5 miles	No	0
Brownfields	State and Tribal Brownfields	0.5 miles	No	0
Eng Controls	State Engineering Controls Registry	0.5 miles	No	0
Inst Controls	State Institutional Controls Registry	0.5 miles	No	0
Additional enviro	nmental records, including local lists	Varies	No	0

#### **Table 1. Regulatory Database Search Summary**

#### Note:

The search distances in the EDR report and listed in this table are equal to or greater than the search distances required by ASTM Standard E2247-16.

## 5.1 Subject Property

The subject property was not identified in any of the databases searched by EDR.

## 5.2 Adjoining Properties

No adjoining properties were identified in any of the databases searched by EDR.

## 5.3 Nearby Properties

No nearby sites were identified in any of the databases searched by EDR.

## 5.4 Unmapped Sites

Unmapped sites are flagged by EDR but not mapped due to insufficient address information. They are usually included in the database search report because they are in the same zip code as the subject property. The EDR report did not identify any unmapped sites.

## 6 Interviews

## 6.1 Site Representative Interview

On March 31, 2023, Harm Singh, owner of the subject property, completed a site background questionnaire. A copy of the questionnaire is presented in Appendix D. Below is the summary of the responses to the questionnaire.

- Mr. Singh has owned the property since 1997.
- The subject property is currently used for agricultural purposes, mainly almonds.
- The subject property has been used as an almond tree orchard since 1997.
- The subject property was used for agricultural purposes prior to 1997.
- Pesticides were last applied to the subject property in the summer of 2022.
- No buildings are currently present on the subject property.
- The subject property and adjoining properties have not been used for industrial purposes.
- Mr. Singh was not aware of any previous hazardous materials use, storage, or other activities on the subject property that could indicate a release of hazardous materials or petroleum products.

## 6.2 User-Provided Information

In accordance with ASTM Standard E2247-16, to qualify for one of the Landowner Liability Protections offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001, the tasks outlined in Section 6.2 through 6.6 of ASTM Standard E2247-16 must be completed, including a search for environmental liens and activity use limitations. To facilitate this requirement, Dudek sent the following questions to the user of this report. Answers to these questions fulfill the requirement of Sections 6.2 through 6.2 of the ASTM Standard. Dudek sent the following questions to NextEra, the user of this report. Stephen Ahn, senior project manager for NextEra, responded on March 28, 2023.

1. **Question:** Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state, or local law?

Response: No.

2. **Question:** Are you aware of any activity and land use limitations, such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law?

#### Response: No.

3. **Question:** As the user of this ESA, do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

Response: No.



4. **Question:** Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

#### Response: No.

5. **Question:** Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? (a) Do you know the past uses of the property, (b) do you know of specific chemicals that are present or once were present at the property, (c) do you know of spills or other chemical releases that have taken place at the property, or (d) do you know of any environmental cleanups that have taken place at the property?

**Response:** a) No b) Walnut Farming c) No d) No.

6. **Question:** As the user of this ESA, based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?

Response: No.

## 6.3 Local Agency Records

6.3.1 Solano County

### 6.3.1.1 Building Department

Dudek contacted the Solano County Resource Management Division on April 5, 2023, to obtain records about building permits. No response has been received as of the time this report was prepared.

### 6.3.1.2 Zoning and Land Use

Dudek accessed the County of Solano General Plan Map and Zoning Map for information about zoning of the subject property and surrounding properties (County of Solano 2023). The subject property and adjoining properties are zoned for agriculture. A map of the zoning boundaries of the subject property and adjoining properties is included in Appendix E.

### 6.3.1.3 Department of Hazardous Materials

On April 3, 2023, Dudek contacted the Solano County Department of Environmental Health Hazardous Materials Division, which acts as the Certified Unified Program Agency and as a local oversight regulatory program to obtain information about potential spills, cleanups, tanks, or chemical use that may have impacted the environmental conditions of the subject property. Dudek received a response April 7, 2023, stating that the department did not find any records associated with the subject property (Appendix E).

### 6.3.1.4 Department of Agriculture and Weights and Measures

Dudek contacted the County of Solano Department of Agriculture/Weights and Measures to obtain files related to pesticide use associated with the subject property. Dudek received a response on April 5, 2023, stating that records were identified for the property. The department provided permit records for pesticides applied on the property from



2015 to 2023. The permits detailed the type of pesticide, quantity, and dates that they were applied to the property. A table summarizing the records is included in Appendix E.

## 6.3.2 California Department of Resources Recycling and Recovery Solid Waste Information System

Dudek reviewed the California Department of Resources Recycling and Recovery Solid Waste Information System online database (CalRecycle 2023). The database has information for all solid waste facilities, operation, and disposal sites in California.

No sites were identified on the subject property or within 3 miles of the subject property.

### 6.3.3 State Water Resources Control Board

Dudek searched GeoTracker, the State Water Resources Control Board's data management system, for sites that impact, or have the potential to impact, water quality in California. Records include sites that require cleanup, various unregulated projects, and permitted facilities (SWRCB 2023). The closest release site listed is a closed cleanup program site 0.9 miles southwest of the site. The contaminants of concern were paint and petroleum hydrocarbons from past vehicle repair at the site. Impacted soils were removed in 2013 as part of the remedial action and closure was granted in 2018. Based on the distance from the subject property, inferred regional groundwater flow direction (away from the subject property), and regulatory status (closed), it is unlikely that this site has impacted the environmental conditions of the subject property.

### 6.3.4 Department of Toxic Substances Control

Dudek searched the EnviroStor database management system used for tracking cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities and sites with known contamination (DTSC 2023). The subject property was not identified in the database; no release sites were identified within 2.5 miles of the subject property.

## 6.3.5 California Environmental Protection Agency Regulated Site Portal

Dudek reviewed the California Environmental Protection Agency Regulated Site Portal, which contains data about environmentally regulated sites and facilities in California (CalEPA 2022). Data sources for the portal include California Environmental Reporting System, the Department of Toxic Substances Control EnviroStor, the State Water Resources Control Board GeoTracker, California Integrated Water Quality System, and the Federal Toxics Release Inventory.

California Environmental Protection Agency sites are generally administrative in nature, identifying sites that have environmental permits or that handle hazardous materials or generate hazardous waste, but that do not necessarily have an uncontrolled release of hazardous substances to the environment.

No sites were identified on the subject property. Two sites were identified within 0.5 miles of the subject property. Only one of the sites was listed in a regulatory program that documents the handling of hazardous materials or generation of hazardous waste and are unlikely to impact the environmental conditions of the subject property.



**Honeybee Genetics:** This site is located at 6718 Byrnes Road, 0.45 miles south-southeast of the subject property. The site is listed as a chemical storage facility starting in April 2022. No information about the site is listed regarding violations or releases. Based on the distance and absence of a documented release, it is unlikely that this site has impacted the environmental conditions of the subject property.

## 6.3.6 California Geologic Energy Management Division

Dudek reviewed the California Geologic Energy Management Division database on April 10, 2023 (CalGEM 2023). There were no oil or gas wells mapped on or within 1 mile of the subject property. This information was also verified in the EDR Report (Appendix C).

## 6.3.7 National Pipeline Mapping System

Dudek searched the National Pipeline Mapping System online database, which provides a public map viewer application that displays data related to gas transmission and hazardous liquid pipelines, liquefied natural gas plants, and breakout tanks under the Department of Transportation Pipeline and Hazardous Material Safety Administration jurisdiction (NPMS 2023).

One pipeline was mapped on the southwestern corner of the subject property (Appendix E). The pipeline is an active natural gas transmission pipeline operated by Pacific Gas & Electric Company. No accidents or incidents were reported within 1 mile of the subject property.

## 7 Site Reconnaissance

A site reconnaissance was conducted on April 11, 2023, by Jamie Schnieders of Dudek. The site reconnaissance consisted of walking the subject property, taking notes on observations, and taking photographs. Photographs are presented in Appendix F. Ms. Schnieders was unaccompanied during the site reconnaissance.

## 7.1 Description of Subject Property and Surroundings

The subject property consists of an approximately 40-acre rectangular shaped parcel of land. Access to the subject property is from Byrnes Road to the east (Photograph 1). At the time of the site reconnaissance, the subject property consisted of a cultivated grass field (Photograph 2). An irrigation canal borders the subject property to the north and a roadside ditch to the east (Photographs 3 and 4). At the time of the site reconnaissance, the roadside ditch contained standing water from road and subject property runoff. A short channel leads to a low point in the northwestern corner of the subject property containing a valve and several wood pallets (Photographs 5 and 6).

High tension transmission lines parallel the eastern and northern boundary of the subject property on the opposite side of Byrnes Road and Kilkenny Road, respectively (Photographs 7 and 8). One pole-mounted transformer was observed associated with a residence north-adjacent to the subject property (Photograph 8). A second pole-mounted transformer is located adjacent to the northeastern corner of the subject property.

As observed during the site reconnaissance, the subject property is bordered by the following:

- To the north by a residence with a large shed and a field used for grazing (Photographs 6, 8, and 9).
- To the west by an orchard with one unlabeled, pad-mounted aboveground storage tank (AST; Photographs 10 and 11).
- To the east by a structure hidden from the road by vegetation and an uncultivated lot, typically used for row crops (Photographs 12 and 13).
- To the south by cultivated grass fields, similar to the subject property (Photograph 14).

The main areas of interest noted during the site reconnaissance are described in the following section.

## 7.2 Summary of Observations

#### Potable Water Supply or Source

No evidence of a potable water supply was observed on the subject property. An irrigation canal borders the subject property to the north and a valve is located in the northwestern corner of the subject property (Photographs 3 and 6).

#### Sewage Disposal System

No evidence of public sewer systems or septic systems were observed on the subject property.



#### Wetlands and Natural Waterways

Standing water was observed in the roadside ditch on the eastern boundary of the subject property (Photograph 4). The water appears to flow south when flowing, along Byrnes Road.

#### Surface Water Discharge

Surface water not absorbed by the crops flows off the subject property toward the roadside ditch, exiting the subject property to the south, as described above under Wetlands and Natural Waterways.

#### **Distressed Vegetation**

No distressed vegetation was observed on the subject property.

#### Solid Debris Storage

Two wood pallets were observed near the valve in the northwestern corner of the subject property (Photograph 6). No other storage or dumping appeared on the subject property.

#### Hazardous Material and Petroleum Product Use and Storage

No hazardous material or petroleum product storage or use was observed on the subject property.

One pad-mounted AST was observed on the northern border of the west-adjoining property (Photograph 11). Another AST was visible on the property adjoining the subject property to the north. The contents of the ASTs were not known at the time of the site reconnaissance.

#### **Unnaturally Discolored Ponds or Flowing Waters**

No unnaturally discolored pools or flowing water were observed on the subject property.

#### Groundwater Wells, Cisterns, Cesspools, or Septic Tanks

No groundwater wells, cisterns, cesspools, or septic tanks were observed on the subject property.

#### **Polychlorinated Biphenyl-Containing Items**

One pole-mounted transformer was observed associated with the residence north of the subject property (Photograph 8). Another pole-mounted transformer was observed adjacent to the northeastern corner of the subject property. The transformers appeared to be in good condition; no evidence of leaks was observed.

#### Sumps or Ponds

No ponds were observed on the subject property during the site reconnaissance.

#### Abnormal Odor

No abnormal odors were noted on the subject property.



#### Surface Staining, Corrosion, and Soil Disturbances

No staining or soil disturbances were observed during the site reconnaissance.

#### Tanks, Drums, Totes, and Intermediate Bulk Containers

No storage tanks, drums, totes, or other bulk containers were observed on the subject property. ASTs were observed on both the northern- and western-adjoining properties, as discussed under Hazardous Material and Petroleum Product Use and Storage in this section.

#### Agricultural Use

Based on a review of historical sources, the subject property has been used for agricultural purposes from as early as 1937 to the present (see Section 8, Site History). During the site reconnaissance, the subject property was a cultivated grass field.

#### **Off-Site Sources**

As discussed above, ASTs were observed on properties adjoining to both the north and west. There was no evidence of releases or other indications that these storage tanks have impacted the environmental condition of the subject property.

#### Fill Material

Fill material was not observed on the subject property.

#### **Unidentified Substance Containers**

No unidentified substance containers were observed on the subject property. Contents of the ASTs observed on the north and west adjoining properties were not able to be identified.

#### **Pipelines**

A review of the National Pipeline Mapping System Public Viewer (NPMS 2023) identified an active natural gas transmission pipeline transecting the southwestern corner of the subject property. The pipeline is oriented northwest to southeast and operated by Pacific Gas and Electric (PG&E). Several more PG&E natural gas pipelines are observed within 1 mile northwest of the subject property, mostly leading to or from the Vaca-Dixon Substation.

## 8 Site History

Based on a review of the historical aerial photographs, historical topographic maps, agency records, and the city directory report, the subject property has not been commercially or residentially developed. The subject property has been used for agricultural purposes from at least 1937 through present. The subject property has been used for orchards from as early as 1997 until sometime after 2016; the subject property was cleared and replaced with a cultivated grass field by 2020. No structures have been present on the subject property.

There are gaps in site history between 1908 and 1917, 1917 and 1937, 1937 and 1949, 1957 and 1965, 1984 and 1993, and 1993 and 2006. This constitutes a data failure and is discussed further in Section 13, Limitations.

The northern-, eastern-, western-, and southern-adjoining properties have been used primarily for residential and agricultural purposes from at least 1937 to the present. An irrigation canal has been located along the northern border of the subject property since 1965. Interstate 80 has been located over 0.5 miles to the northwest of the subject property since at least 1953. Surrounding properties have been used primarily for residential and agricultural purposes.

## 8.1 Historical Aerial Photographs

Dudek reviewed historical aerial photographs obtained from EDR for 1937, 1952, 1968, 1974, 1984, 1993, 2006, 2009, 2012, 2016, and 2020 (Appendix G). Dudek also reviewed aerial photographs from the University of California Santa Barbara online repository of aerial imagery, FrameFinder, for 1949, 1957, 1965, and 1987 (UCSB 2023) and Google Earth for 2022 (Google Earth 2023). The photographs provided background information to assess the possibility of past activities that could present environmental concerns. The aerial photographs are described in Table 2.

Date	Subject Property	Adjoining and Surrounding Properties
1937	The subject property appears to be used for agriculture. The majority of the site appears to be a cultivated grass field while the northwestern corner appears to be part of an orchard.	Cultivated grass crops continue on the adjoining property to the south for 500 feet and to the west 150 feet. The orchard continues on to western adjoining property to the north for another 400 feet. A dirt road running north-south borders the subject property to the east. Another dirt road borders the subject property to the north, starting at the northeastern corner of the subject property and running directly west. The eastern and northern adjoining properties appear to be undeveloped. An agricultural field is located approximately 150 northeast of the subject property. Another agricultural field appears in west of the orchard with a stand of trees and a couple potentially agricultural structures. The surrounding land to the west and south appear to be mostly undeveloped. A couple rural residential/agricultural structures appear 1,000 feet to the southeast of the subject property along with a small orchard. Hay barrel features

#### **Table 2. Summary of Aerial Photographs**

#### **Table 2. Summary of Aerial Photographs**

Date	Subject Property	Adjoining and Surrounding Properties
		appear to be along a dirt road leading to one of the structures to 1,000 feet to the south-southeast of the subject property. A dry creek bed runs roughly southeast to northwest over 1,000 feet northeast of the subject property.
1949	The orchard on the northwestern corner of the subject property is no longer present.	The adjoining properties appear to be similar to the 1937 aerial photograph. The center of the agricultural field north of the subject property appear to have been partially cleared.
1952	The subject property appears similar to the 1949 aerial photograph. The northwestern corner appears to have been replaced with a different crop and the main portion of the field appears to be fallow.	The adjoining properties appear to be similar to the 1949 aerial photograph. Approximately 800 feet west of the subject property on the northern end appears to be a pond feature. A residence and a few small agricultural buildings are more easily discernable north of the pond feature. The hay barrels are no longer present and the orchard to the southeast appears to be fallow. In the center of the agricultural field north of the subject property are what appear to be a couple of rural residential structures and another pond/reservoir feature.
1957	All of the subject property appears to be one type of crop.	All of the adjoining properties appear to be agricultural fields. One of the residences and the orchard are no longer observed 1,000 feet southeast of the subject property.
1965	The northern boundary of the subject property appears to have a linear ditch-like feature just south of the dirt road.	The dirt road on the northern boundary now continues to the east with what appears to be a ditch like feature on the north side. A similar ditch follows the dirt road to the north 400 feet west of the northwestern corner of the subject property.
1968	The subject property appears similar to the 1965 aerial photograph.	A remnant of the dry channel to the northeast remains but another straighter channel feature has been created with water in it. The pond to the north appears to be dry and no longer in use. The pond to west is no longer present.
1974	The subject property appears similar to the 1968 aerial photograph. The field appears to be drier or a different type of crop.	The roads adjoining the property appear to be paved now. The pond to the north appears to be in use again. Another rural residence appears approximately 1,200 feet north of the subject property south of the channel.
1984	The subject property appears similar to the 1974 aerial photograph.	Another rural residential property with a home and shed appears on the northern adjoining property. The pond to the north appears to be dry again. The remaining adjoining and surrounding properties appear similar to the 1974 aerial photograph.
1987	The subject property appears similar to the 1984 aerial photograph.	The adjoining and surrounding properties appear similar to the 1984 aerial photograph.
1993	The subject property appears similar to the 1987 aerial photograph.	The agricultural field around the northern-adjoining residential property appears to no longer be in use. A



#### **Table 2. Summary of Aerial Photographs**

Date	Subject Property	Adjoining and Surrounding Properties
		couple new residential structures appear close to the prior existing structures 600 feet north of the subject property. A new irrigation ditch appears off the southeast corner of the subject property running south for approximately 600 feet before ending near a new agricultural/commercial structure. Approximately 1,400 feet north-northeast of the subject property is a commercial structure.
2006	The subject property appears to have been developed with an orchard.	The northern adjoining residential property has expanded its footprint and has a few more small structures as well as vehicles/equipment stored on the property. Another rural residential property with a small orchard appears on the northern end of the eastern adjoining property. The southern and western adjoining agricultural fields appear to be the same crop as the subject property. The eastern adjoining field does not appear to be in use. The larger commercial structure to the north-northeast of the subject property appears is gone with a small structure remaining. The commercial building to the south-southeast has a cluster of trees planter south and west of the building.
2009	The subject property appears similar to the 2006 aerial photograph.	The eastern-adjoining agricultural field has been replanted with a crop different from the subject property. A couple of trailers appear to have been added to the cluster of residences approximately 600 feet north of the subject property. The remaining adjoining and surrounding areas appear similar to the 2006 aerial photograph.
2012	The subject property appears similar to the 2006 aerial photograph.	A cluster of small white box features appear on the residential lot adjoining the subject property to the east on the northern end. Vehicles and equipment now appear among the residences approximately 600 feet north of the subject property. Two shed like buildings appear south of the channel near the residence 1,400 feet north of the subject property. The commercial building 400 feet south-southeast of the subject property appears to be further developed with a paved parking area and garden plots.
2016	The subject property appears similar to the 2012 aerial photograph.	The white box features on the eastern adjoining property are no longer present and the small orchard appears to be going fallow. Two agricultural fields have been replanted as orchards, one 400 feet northwest and the other 500 feet south of the subject property.
2020	The subject property appears to be a cultivated grass field.	The adjoining fields to the south and west appear similar to the subject property. The northeastern adjoining agricultural field appear to have been cleared. The residential structure on the northern



#### **Table 2. Summary of Aerial Photographs**

Date	Subject Property	Adjoining and Surrounding Properties
		end of the eastern adjoining property appears to be in disrepair.
2022	The subject property appears similar to the 2020 aerial photograph.	The adjoining and surrounding properties appear similar to the 2020 aerial photograph.

Note: See Appendix G for corresponding aerial photographs.

## 8.2 Historical Topographic Maps

Dudek reviewed historical topographic maps from 1908, 1917, 1953, 1968, 1973, 1978/1980, 2012, 2015, and 2018 (Appendix B). The topographic maps are a historical source that can be used to document the prior use of the subject property and surrounding area. The topographic maps are described in Table 3.

Date	Subject Property	Adjoining and Surrounding Properties
1908	The subject property appears to be undeveloped land.	Secondary roads are depicted along the eastern (present-day Byrnes Road) and northern (present-day Kilkenny Road) subject property boundaries. A structure is depicted on the northern adjacent property. Another structure is depicted 0.25 miles west of the northwestern corner of the subject property and two more 0.25 miles southwest of the subject property. Several east-west and north- south secondary roads are depicted in the surrounding areas. Sparse (approximately 2 to 4 per square mile) structures are depicted in surrounding areas. No major towns are depicted on the 1908 topographic map. Intermittent and ephemeral streams are mapped northeast and southwest of the subject property, with the closest ½ mile to the northeast. A railroad is depicted 1 mile southeast of the subject property.
1917	The subject property is similar to its appearance on the 1908 topographic map.	The northern adjoining structure is no longer depicted. The remaining adjoining and surrounding properties are similar to their appearance on the 1908 topographic map.
1953	The subject property is similar to its appearance on the 1917 topographic map.	Four new structures and a pond are depicted on 0.25 miles north of the subject property. Two new structures and a pond are depicted 0.25 miles west of the northern corner of the subject property. Four new structures and an orchard are depicted 0.25 miles east-southeast of the subject property. Interstate 80 is depicted 0.75miles northwest of the subject property. The Vaca

#### Table 3. Summary of Topographic Maps



Date	Subject Property	Adjoining and Surrounding Properties
		Dixon Substation northwest of the subject property on the other side of I-80 with power transmission lines west and northwest of the subject property. The Vaca Dixon Airport is depicted 0.75 miles north of the subject property. One of the roads east of the subject property is now depicted as a secondary highway. Orchards are depicted in areas to the north and east of the subject property. The density of structures has increased west and southwest of the subject property
1968	The subject property is similar to its appearance on the 1953 topographic map.	A narrow channel is depicted adjoining the northern boundary of the subject property, along Kilkenny Road. The stream northeast of the subject property has been straightened and turned into a canal. Two additional structures are depicted 0.25 to 0.5 miles north-northeast of the subject property. The pond to the west of the subject property is no longer depicted. The Vaca Valley Raceway and a small pond are depicted to the northeast of the subject property. A sewage disposal plant, a large pond, and another substation are depicted to the northwest of the subject property. The density of structures has increased more to the west, southwest and northeast of the subject property.
1973	The subject property is similar to its appearance on the 1968 topographic map.	Adjoining properties appear similar to the 1968 topographic map. The Vaca Dixon airport to the north is abandoned. The remaining surrounding properties appear similar in appearance to the 1968 topographic map.
1978, 1980	The subject property is similar to its appearance on the 1973 topographic map.	The adjoining and surrounding areas appear similar to the 1973 topographic map.
2012	The subject property is similar to its appearance on the 1978/1980 topographic map.	Structures are no longer depicted on the adjoining or surrounding areas. Small woodland areas are depicted on the eastern adjoining property and southeast and southwest nearby areas. The remaining adjacent and surrounding areas appear similar to the 1978 topographic map.
2015	The subject property is similar to its appearance on the 2012 topographic map.	The only woodland areas remaining are 0.25 miles southeast of the subject property. The remaining surrounding areas appear similar to the 2012 topographic map.

### Table 3. Summary of Topographic Maps

Date	Subject Property	Adjoining and Surrounding Properties
2018	The subject property is similar to its appearance on the 2015 topographic map.	The adjoining and surrounding areas appear similar to their appearance to the 2015 topographic map.

#### Table 3. Summary of Topographic Maps

Note: See Appendix B for corresponding maps.

## 8.3 Fire Insurance Maps

Historical Sanborn fire insurance maps were requested from EDR. Sanborn maps provide information regarding the historical uses of the subject property and surrounding properties. Sanborn maps typically exist for cities with populations of 2,000 or more; the coverage is dependent on the location of the subject site within the city limits. Sanborn fire insurance maps were not found in the database for the subject property. The Sanborn Map Report is provided in Appendix H.

## 8.4 City Directory

City directory listings were requested from EDR (Appendix I). For the city directory review, Byrnes Road and Kilkenny Road were used to identify the property. Findings for Byrnes Road included residential and agricultural listings between 1977 and 2020 and a biotech and bioscience business (Snyder Biotech and Korr Bioscience) was listed southeast of the subject property between 1992 and 2017. Findings for Kilkenny Road included residential and agricultural and agricultural listings between 1977 and 2020 and an electrical business listing between 1992 and 2000.

## 9 Previous Environmental Site Assessments

No previous environmental assessments were provided to Dudek during this Phase I ESA.

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## 10 Vapor Encroachment

Dudek evaluated vapor encroachment to determine whether there is a potential for vapors originating from contaminated soil and/or groundwater to occur in the subsurface below the existing and potential future on-site structures. Information obtained from other sources (geologic and hydrogeological information, site reconnaissance, local regulatory agency responses), as discussed in this report, was also considered. The VEC assessment was conducted in accordance with ASTM Standard E2600-15 guidance (ASTM 2015). The EDR Radius Map Report (Appendix C) was used to evaluate listed contaminated sites as identified in federal, state, and local databases. A VEC assessment report is provided in Appendix J.

No sites were identified as having groundwater contamination or soil vapor contamination that could impact the subject property; as such, a VEC was not identified.

## 11 Non-ASTM Considerations

This section discusses non-ASTM scope considerations that were included in this Phase I ESA based on the conditions at the subject property. These items are not required to be evaluated per the ASTM standard but may still pose environmental health and safety risks.

### Asbestos

Asbestos has been specifically designated a hazardous substance pursuant to CERCLA Section 102, but abatement costs are generally not recoverable under CERCLA. Many building materials commonly contained asbestos until the late 1970s, and a smaller list of building materials contained asbestos in the 1980s, such as drywall, joint compounds, vinyl flooring, roofing, asbestos-cement products, and stucco. Under the Toxic Substances Control Act, the U.S. Environmental Protection Agency banned the use of asbestos in many products, with partial bans occurring in 1989 and 1993. However, a full ban of asbestos products did not occur until 2019. Therefore, if a building was constructed prior to 1989, it is likely it contains asbestos. If it was constructed between 1989 and 2019, it is less likely asbestos is present, but there is still a chance that asbestos was used.

No structures were identified in historic records, and none were observed on the subject property during the site reconnaissance. Based on this information, asbestos is not of concern for the subject property.

#### Lead-Based Paint

Paint manufacturers frequently used lead as a primary paint ingredient through the 1940s and gradually decreased its use in the 1950s and 1960s. The federal department of Housing and Urban Development estimates 30% of homes built in the United States before 1978 contain some lead-based paint. The Consumer Product Safety Commission prohibited the use of lead-based paints in residential buildings in 1978; however, the use of lead-based paints in commercial and industrial buildings is not prohibited.

No structures were identified in historic records, and none were observed on the subject property during the site reconnaissance. Based on this information, lead-based paint is not of concern for the subject property.

### Radon

Radon is a radioactive gas that is produced from the natural decay of uranium, radium, and thorium in soil, rock, and groundwater. When radon becomes trapped in buildings and concentrations accumulate, exposure to radon can be a concern.

The EDR report presents radon data for the vicinity of the subject property. Seven sites within zip code 95687 were evaluated and identified in Solano County. The radon concentration at these sites averaged 2.5 picocuries per liter (pCi/L). A total of 29 tests within Solano County were evaluated and identified in the federal radon database. The radon concentration at these sites averaged 2.5 pCi/L in the first floor living area. The U.S. Environmental Protection Agency radon zone for Solano County is 3, which corresponds with average expected indoor radon levels between 2 and 4 pCi/L. The federal radon action level is 4 pCi/L.



## 12 Findings and Conclusions

Information gathered for this report indicated the following:

- The subject property has been used for agricultural purposes since at least 1937 (grass crops from 1937 to 1997, orchards from 1997 to sometime after 2016, and a cultivated grass field by 2020).
- Permitted pesticides have been applied to the subject property since 2015. Quantities and application methods have been per manufacturer specifications.
- Adjoining properties to the main portion of the subject property include residential and grazing land to the north and agricultural land to the west, east and south.

This assessment did not reveal evidence of RECs, HRECs, CRECs, or VECs.

The following environmental concern was identified:

 Due to the historical and current agricultural use of the subject property, there is a potential for elevated concentrations of pesticide- and herbicide-related compounds in surface soils. As the proposed redevelopment is commercial, the accumulated concentrations are likely below risk-based concentrations associated with commercial development; however, the potential presence of these chemicals should be considered when evaluating future risk.

Dudek performed this Phase I ESA of the subject property in conformance with the scope and limitations of ASTM Standard E2247-16, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property. This report summarizes the research and findings of the Phase I ESA. Data gaps, which were determined not to be significant, are discussed in Section 13.1, Data Gaps and Data Failures. As per ASTM Standard E2247-16, this Phase I ESA expires on September 27, 2023.

# 13 Limitations

## 13.1 Data Gaps and Data Failures

As defined in ASTM Standard E2247-16, a data failure is a failure to achieve the historical research objective required by the ASTM standard even after reviewing the standard historical resources that are reasonably ascertainable and likely to be useful. A data failure is a type of data gap.

The following data failures were identified for this Phase I ESA:

• Gaps greater than the 5-year interval required by the ASTM Standard were identified in historical resources. This constitutes a data failure.

As defined in ASTM Standard E2247-16, a data gap is the lack of or inability to obtain information required by this practice despite good faith efforts. A data gap is considered significant when it affects the ability of the environmental professional to identify recognized environmental conditions.

The following data gaps were identified for this Phase I ESA:

- Gaps greater than the 5-year interval required by the ASTM standard were identified in historical resources.
   Based on the site history, available historical and regulatory information, and present-day use, this data gap does not limit the ability to determine RECs and is therefore considered less than significant.
- A response from the Solano County Resource Management Division was not received as of the date of this report. Based on the site history, available historical and regulatory information, and present-day use, this data gap does not limit the ability to determine RECs and is therefore considered less than significant.

Should Dudek receive information following submission of this Phase I ESA report that completes the data gaps and changes the findings of the Phase I ESA report, Dudek will submit the findings to the user in an addendum.

## 13.2 Report Limitations

The findings and conclusions presented in this report are professional opinions based solely on the indicated data described in this report, as reflected in the discussion in this report of the visual observations of the subject property and vicinity, and documentation reviewed, and based on the foregoing, our interpretation of this information and these documents. Dudek makes no warranty, guarantee, or representation, express or implied, as to statements made by others or information included in documentation reviewed or otherwise provided to Dudek, as described in this report. This report does not purport to identify or describe all potential contamination or other issues related to the environment respecting the subject property and/or the vicinity. Likewise, it is understood that it is possible that conditions or contamination exist at the subject property or in the vicinity that are not identified in this Phase I ESA.

No warranties, guarantees, or representations, expressed or implied, are made by Dudek, except for the representation that this report has been prepared in accordance with the current generally accepted practices and standards consistent with the level of care and skill exercised under similar circumstances by other professionals performing the same or



similar services in the same or similar geographical locality. This report, including its conclusions and/or recommendations, is intended exclusively and solely for the purpose outlined herein and for the client identified hereunder. This report may not be relied upon by any other person or entity without the express advance written consent of Dudek specifically identifying such person or entity. Dudek reserves the right to further condition any such third-party use based on matters it deems appropriate under the circumstances, in its sole discretion.

This report is subject to the conditions and restrictions and limitations described in ASTM Standard E2247-16.

In accordance with Section 4.6 of ASTM Standard E2247-16, this Phase I ESA is valid as a general matter for not longer than 180 days from the date of the first interview, first review of government records, or first visual inspection. If this Phase I ESA has been prepared for the purposes of a transaction, the report must have been completed no more than 180 days prior to the transaction date to be considered viable. Otherwise, the report must be updated or revised in accordance with ASTM Standard E2247-16.

## 14 References

- ASTM (American Society for Testing and Materials). 2015. E2600-15, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transaction. West Conshohocken, Pennsylvania: ASTM International.
- ASTM (American Society for Testing and Materials). 2016. E2247-16, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property. West Conshohocken, Pennsylvania: ASTM International.
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**Appendix A** Qualifications of Environmental Professionals

### APPENDIX A / QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Environmental Professional	Professional License	Degree(s)	Years' Relevant Experience	Task Performed
Susan Smith	Professional Geologist, State of California	B.S., Geological Sciences, California State University Fullerton	21	Report Review, QA/QC
Nicole Tucker		B.S., Physics, Shippensburg University M.S., Geoscience, Florida International University	5	Report Preparation
Jamie Schnieders	-	M.S., Environmental Science, California State University, Monterey Bay	1	Site Reconnaissance



# **Appendix B** Historical Topographic Maps

Corby BESS Not Reported Vacaville, CA 95687

Inquiry Number: 7291635.4 March 27, 2023

## EDR Historical Topo Map Report with QuadMatch™



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edmet.com

EDR Historical Topo Map Report 03/27/23		
Site Name:	Client Name:	0.05/0.251
Corby BESS	DUDEK	a
Not Reported	605 Third Street	
Vacaville, CA 95687	Encinitas, CA 92024	e
EDR Inquiry # 7291635.4	Contact: Susan Smith	· · · · · · · · · · · · · · · · · · ·

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by DUDEK were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Rest	ults:	Coordinates:	
P.O.#	13946.47	Latitude:	38.392465 38° 23' 33" North
Project:	Corby BESS	Longitude:	-121.907489 -121° 54' 27" Wes
		UTM Zone:	Zone 10 North
		UTM X Meters:	595407.44
		UTM Y Meters:	4249926.23
		Elevation:	78.00' above sea level
Maps Provid	led:		
2018	1908		
2015			
2012			
1978, 198	0		
1973			
1968			
1953			
1917			

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### **Topo Sheet Key**

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

#### **2018 Source Sheets**





Allendale 2018 7.5-minute, 24000

Elmira 2018 7.5-minute, 24000

#### 2015 Source Sheets





Allendale 2015 7.5-minute, 24000

2015 7.5-minute, 24000

#### 2012 Source Sheets





2012 7.5-minute, 24000

nute, 24000 7.5-minute, 24000

1978, 1980 Source Sheets



Allendale 1978 7.5-minute, 24000 Aerial Photo Revised 1949



1980 7.5-minute, 24000 Aerial Photo Revised 1978

### **Topo Sheet Key**

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

#### **1973 Source Sheets**



Elmira 1973 7.5-minute, 24000 Aerial Photo Revised 1973

#### **1968 Source Sheets**



Allendale 1968 7.5-minute, 24000 Aerial Photo Revised 1968

#### **1953 Source Sheets**



Allendale 1953 7.5-minute, 24000 Aerial Photo Revised 1949



Elmira 1953 7.5-minute, 24000 Aerial Photo Revised 1949

#### **1917 Source Sheets**



Elmira 1917 7.5-minute, 31680



Wolfskill 1917 7.5-minute, 31680



Allendale 1973 7.5-minute, 24000 Aerial Photo Revised 1973



1968 7.5-minute, 24000 Aerial Photo Revised 1968

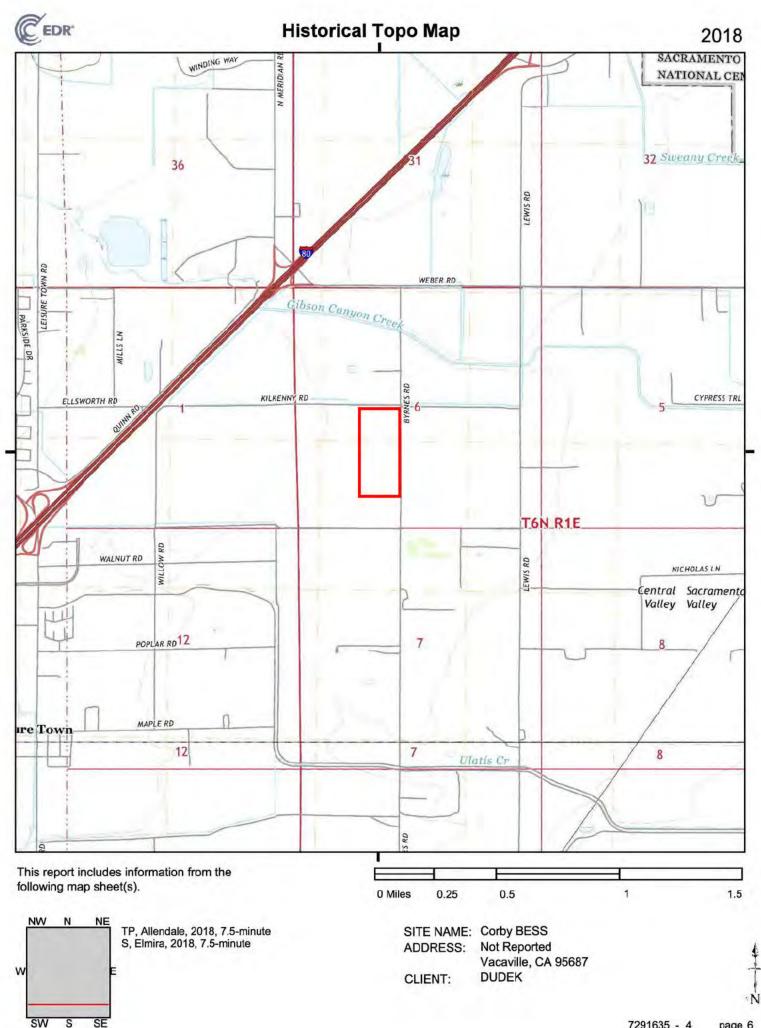
### Topo Sheet Key

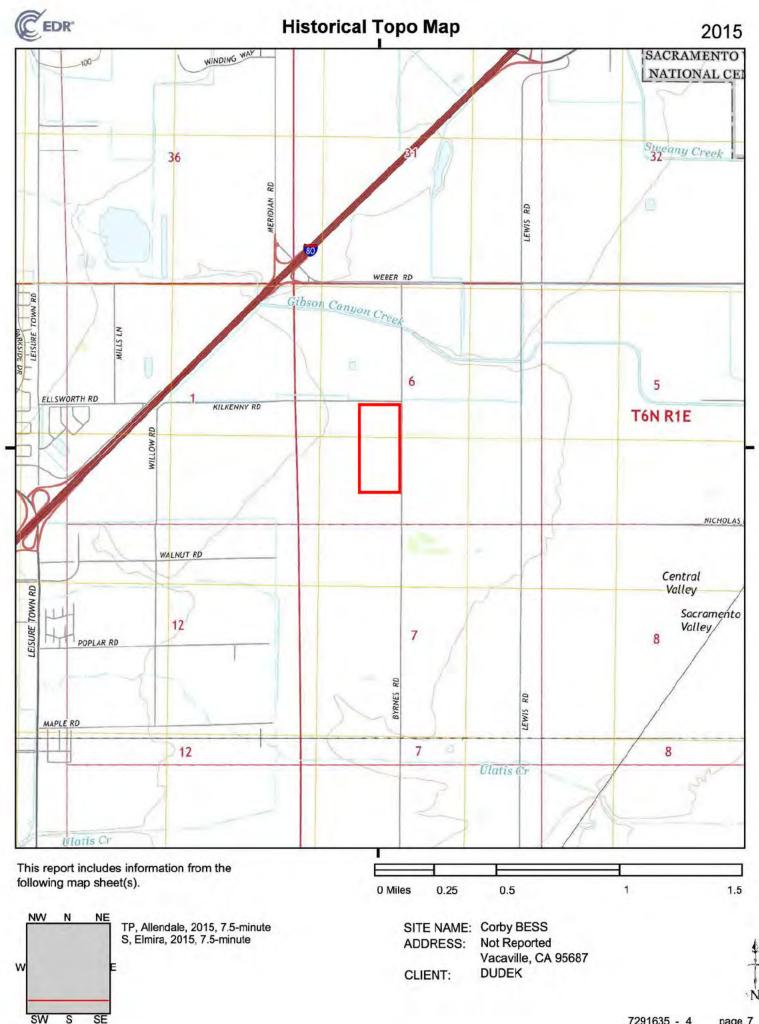
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

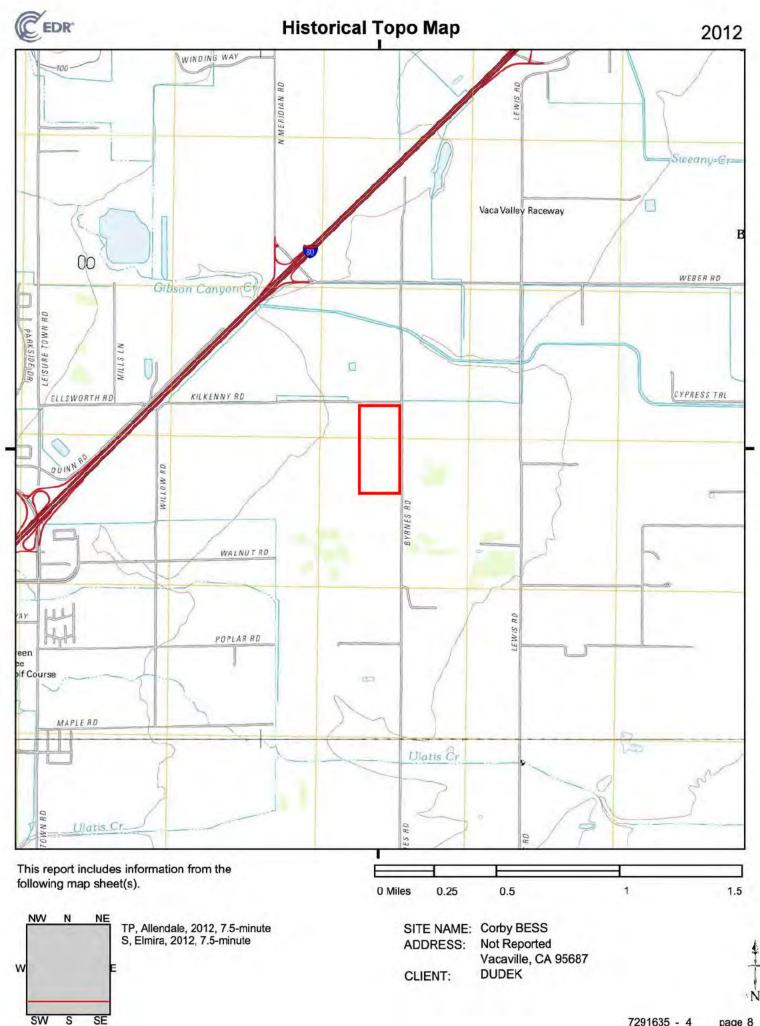
### **1908 Source Sheets**



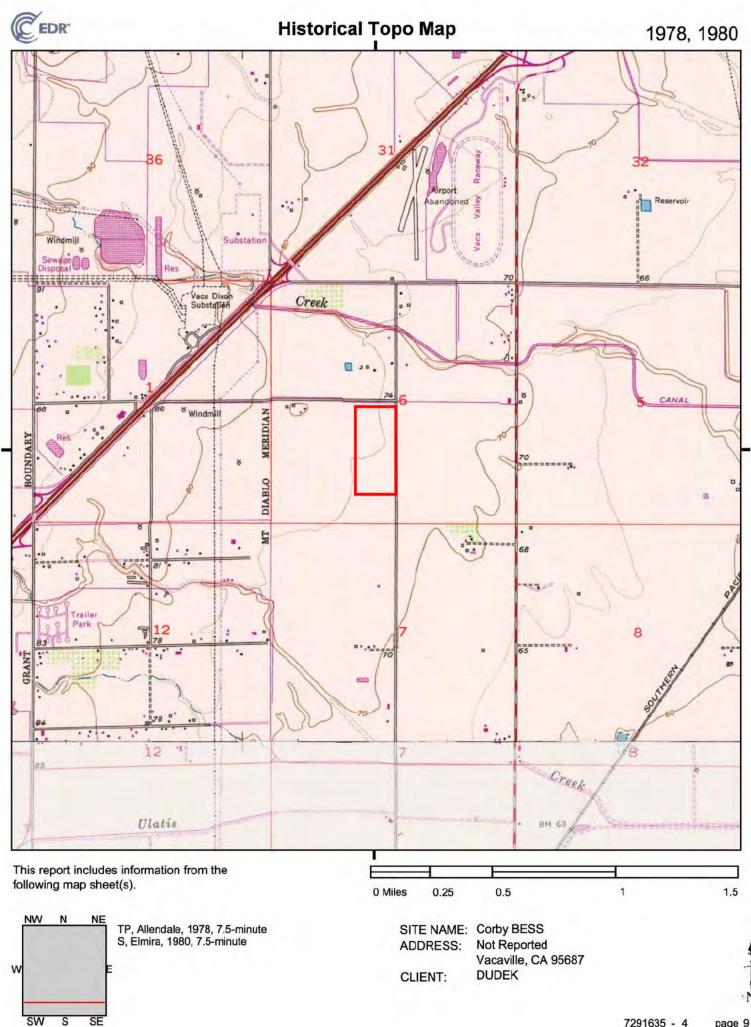
Vacaville 1908 15-minute, 62500

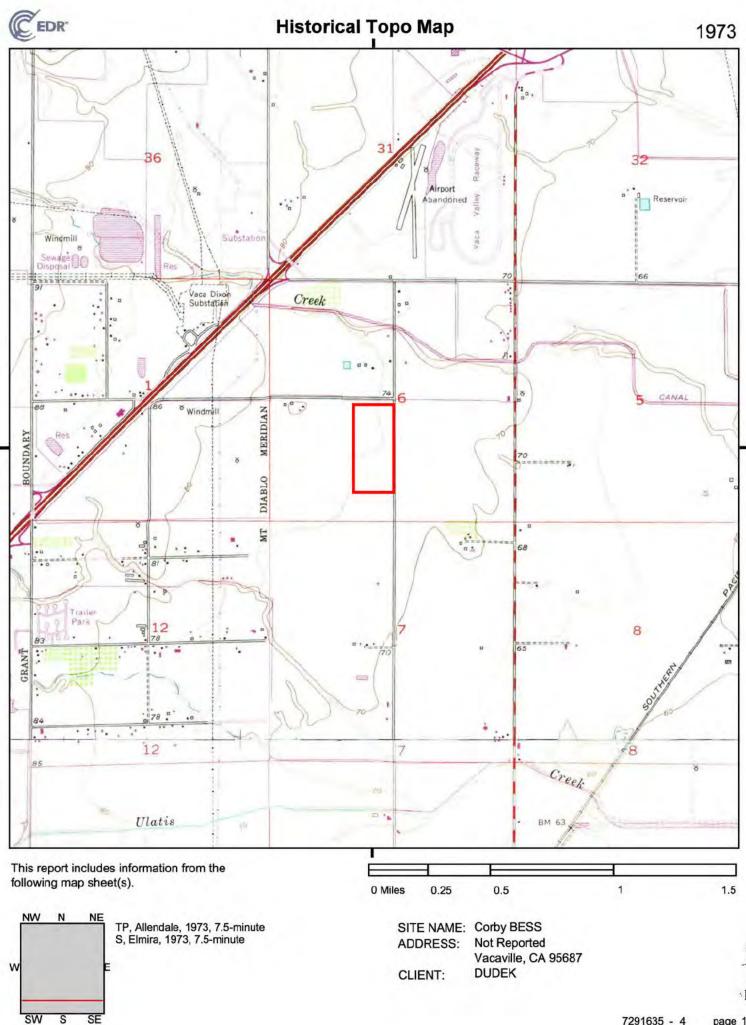


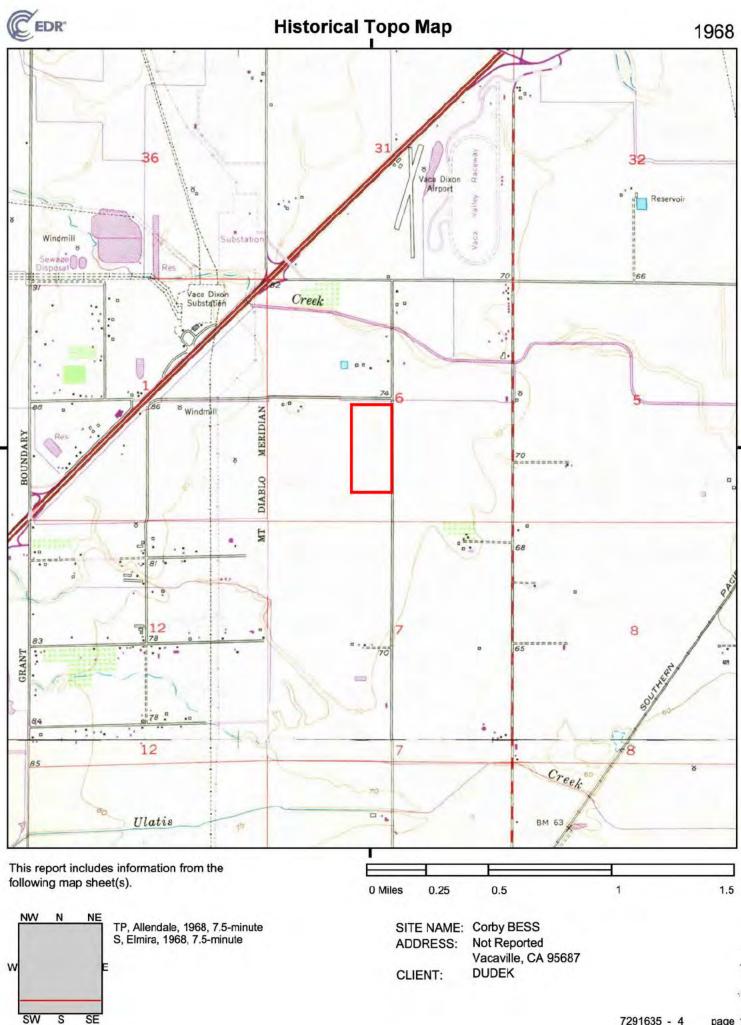


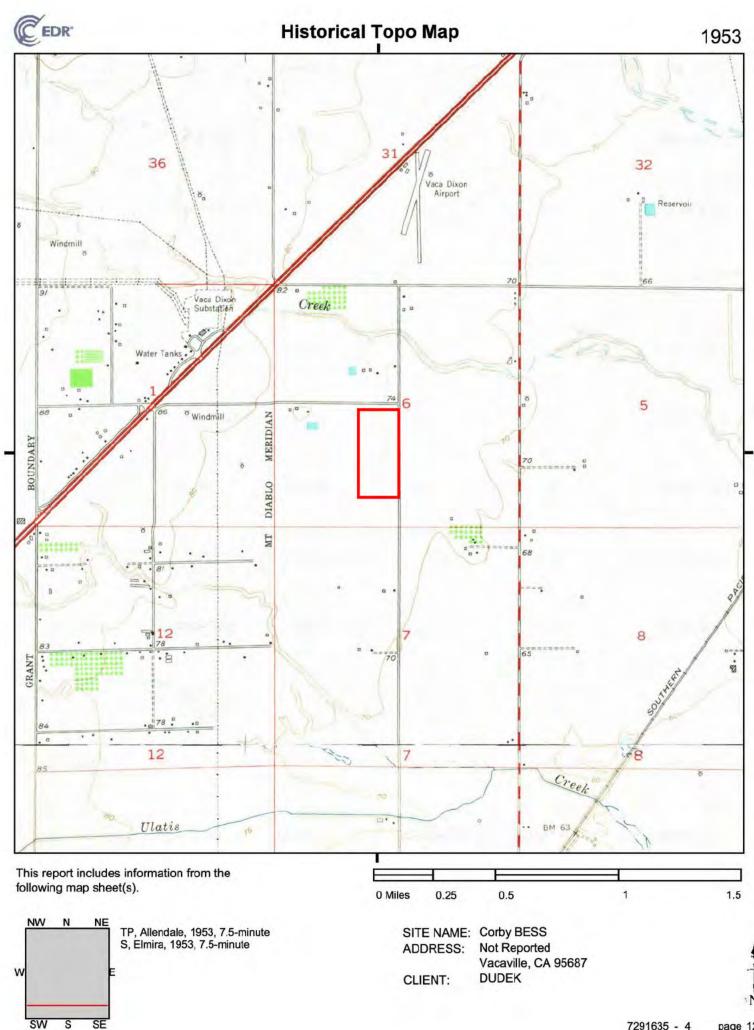


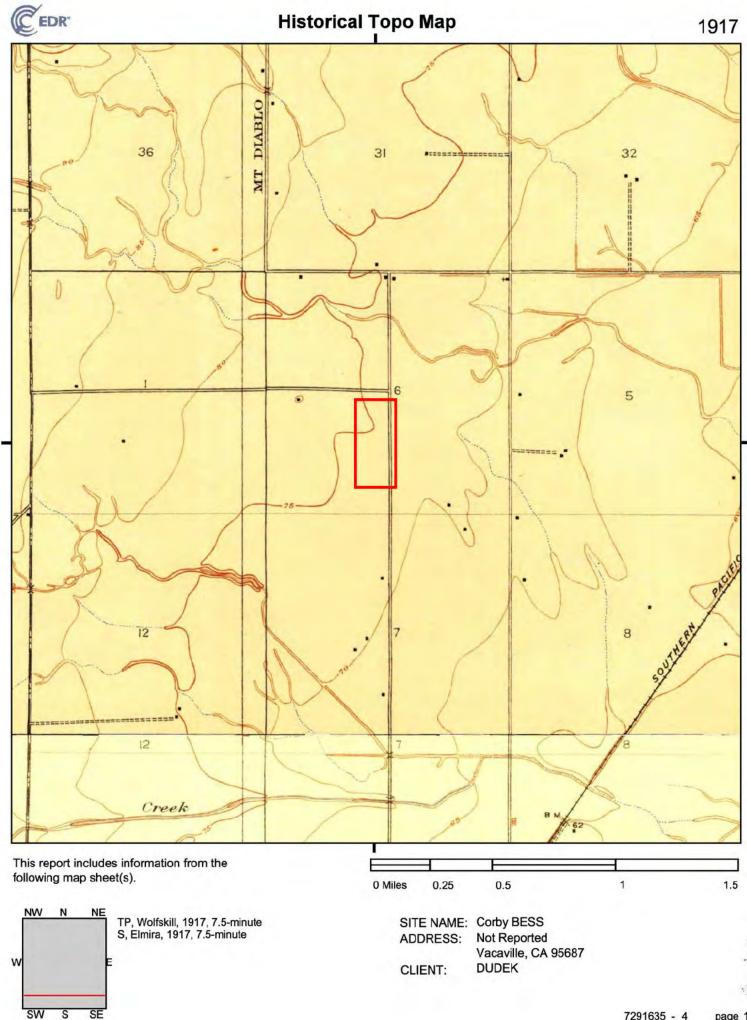
7291635 - 4 page 8

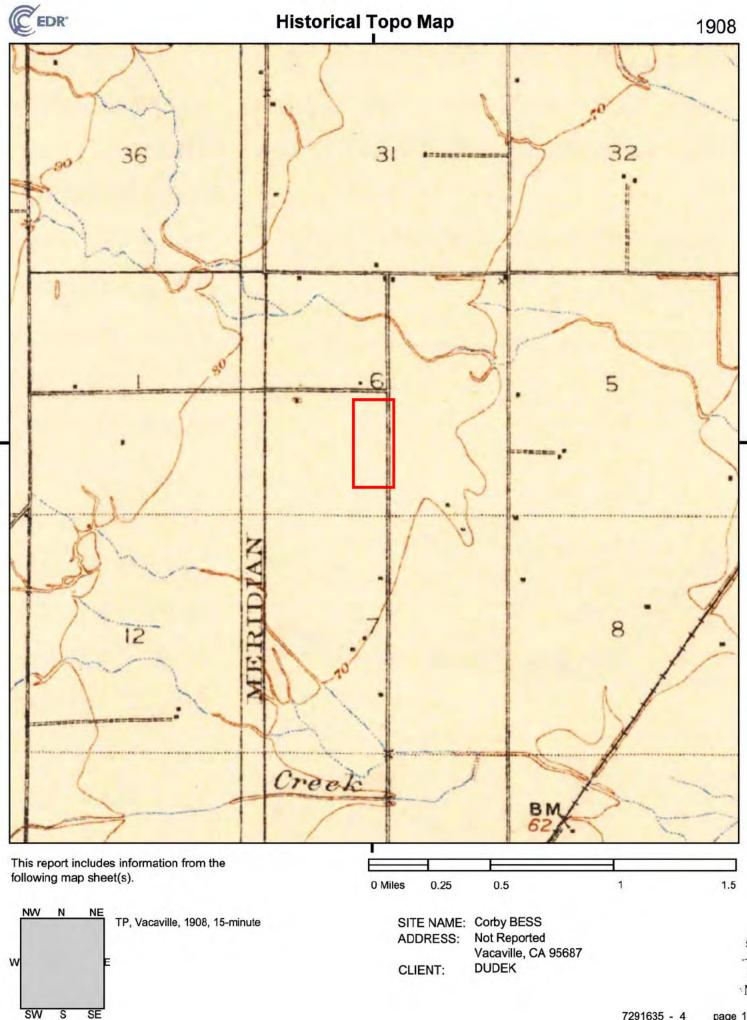












## **Appendix C** EDR Radius Map Report

## **Corby BESS**

Not Reported Vacaville, CA 95687

Inquiry Number: 7291635.2s March 27, 2023

## The EDR Radius Map<sup>™</sup> Report with GeoCheck<sup>®</sup>



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

FORM-LBC-KKT

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#### **GEOCHECK ADDENDUM**

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*Thank you for your business.* Please contact EDR at 1-800-352-0050 with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

#### TARGET PROPERTY INFORMATION

#### ADDRESS

NOT REPORTED VACAVILLE, CA 95687

#### COORDINATES

Latitude (North):	38.3924650 - 38^ 23' 32.87"
Longitude (West):	121.9074890 - 121 54' 26.96"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	595409.9
UTM Y (Meters):	4249719.5
Elevation:	78 ft. above sea level

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	12021563 ALLENDALE, CA
Version Date:	2018
South Map:	12021597 ELMIRA, CA
Version Date:	2018

#### **AERIAL PHOTOGRAPHY IN THIS REPORT**

Portions of Photo from:	20140606
Source:	USDA

Target Property Address: NOT REPORTED VACAVILLE, CA 95687

Click on Map ID to see full detail.

MAP ID SITE NAME

ME ADDRESS

DATABASE ACRONYMS

RELATIVEDIST (ft. & mi.)ELEVATIONDIRECTION

NO MAPPED SITES FOUND

#### TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

#### DATABASES WITH NO MAPPED SITES

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

#### STANDARD ENVIRONMENTAL RECORDS

#### Lists of Federal NPL (Superfund) sites

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
NPL LIENS	- Federal Superfund Liens

#### Lists of Federal Delisted NPL sites

Delisted NPL\_\_\_\_\_ National Priority List Deletions

#### Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY\_\_\_\_\_\_ Federal Facility Site Information listing SEMS\_\_\_\_\_\_ Superfund Enterprise Management System

#### Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE\_\_\_\_\_ Superfund Enterprise Management System Archive

#### Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS..... Corrective Action Report

#### Lists of Federal RCRA TSD facilities

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

#### Lists of Federal RCRA generators

RCRA-LQG	. RCRA - Large Quantity Generators
RCRA-SQG	RCRA - Small Quantity Generators
RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity
	Generators)

#### Federal institutional controls / engineering controls registries

LUCIS...... Land Use Control Information System

US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROLS	Institutional Controls Sites List

#### Federal ERNS list

ERNS\_\_\_\_\_ Emergency Response Notification System

#### Lists of state- and tribal (Superfund) equivalent sites

RESPONSE..... State Response Sites

#### Lists of state- and tribal hazardous waste facilities

ENVIROSTOR ..... EnviroStor Database

#### Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF\_\_\_\_\_ Solid Waste Information System

#### Lists of state and tribal leaking storage tanks

LUST	Geotracker's Leaking Underground Fuel Tank Report
	Leaking Underground Storage Tanks on Indian Land
CPS-SLIC	

#### Lists of state and tribal registered storage tanks

FEMA UST	Underground Storage Tank Listing
UST	
AST	Aboveground Petroleum Storage Tank Facilities
INDIAN UST	. Underground Storage Tanks on Indian Land

#### Lists of state and tribal voluntary cleanup sites

INDIAN VCP...... Voluntary Cleanup Priority Listing VCP...... Voluntary Cleanup Program Properties

#### Lists of state and tribal brownfield sites

BROWNFIELDS..... Considered Brownfieds Sites Listing

#### ADDITIONAL ENVIRONMENTAL RECORDS

#### Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

#### Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT	Waste Management Unit Database
SWRCY	Recycler Database
HAULERS	Registered Waste Tire Haulers Listing
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
ODI	Open Dump Inventory

DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS	Open Dumps on Indian Land

#### Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	Delisted National Clandestine Laboratory Register
HIST Cal-Sites	Historical Calsites Database
SCH	. School Property Evaluation Program
CDL	Clandestine Drug Labs
CERS HAZ WASTE	CERS HAZ WASTE
Toxic Pits	. Toxic Pits Cleanup Act Sites
US CDL	National Clandestine Laboratory Register

#### Local Lists of Registered Storage Tanks

SWEEPS UST	. SWEEPS UST Listing
HIST UST	- Hazardous Substance Storage Container Database
	California Environmental Reporting System (CERS) Tanks
CA FID UST	

#### Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	
DEED	Deed Restriction Listing

#### Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
	SPILLS 90 data from FirstSearch

#### Other Ascertainable Records

RCRA NonGen / NLR	. RCRA - Non Generators / No Longer Regulated
FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	. Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	. 2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	_ Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide
	Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System

COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
	Radiation Information Database
	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	
	Formerly Utilized Sites Remedial Action Program
UMTRA	
LEAD SMELTERS	
	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
	Hazardous Waste Compliance Docket Listing
	Enforcement & Compliance History Information
UXO	Unexploded Ordnance Sites
	EPA Fuels Program Registered Listing
	Superfund Sites with PFAS Detections Information
	Federal Sites PFAS Information
	PFAS Manufacture and Imports Information
	PFAS Transfers Identified In the RCRA Database Listing
	PFAS Contamination Site Location Listing
	Ambient Environmental Sampling for PFAS
	Clean Water Act Discharge Monitoring Information
	Facilities in Industries that May Be Handling PFAS Listing
	Facilities in Industries that May Be Handling PFAS Listing
PFAS PART 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing
PFAS	PFAS Contamination Site Location Listing
AQUEOUS FOAM	Former Fire Training Facility Assessments Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	
DRYCLEANĚRS	
EMI	
ENF	
Financial Assurance	Financial Assurance Information Listing
ICE	ICE
	Hazardous Waste & Substance Site List
	EnviroStor Permitted Facilities Listing
	Registered Hazardous Waste Transporter Database
HAZNET	
MINES	Minor Site Location Listing
	Medical Waste Management Program Listing
NPDES	
	Pesticide Regulation Licenses Listing
	Certified Processors Database
Notify 65	
HAZMAT	
UIC	
UIC GEO	
WASTEWATER PITS	
WDS	Waste Discharge System

MILITARY PRIV SITES PROJECT WDR CIWQS CERS NON-CASE INFO OTHER OIL GAS	Waste Discharge Requirements Listing California Integrated Water Quality System CERS NON-CASE INFO (GEOTRACKER) OTHER OIL & GAS (GEOTRACKER)
	PROD WATER PONDS (GEOTRACKER)
	SAMPLING POINT (GEOTRACKER)
	Well Stimulation Project (GEOTRACKER)
	List of PFAS Added to the TRI
	Hazardous Waste Tracking System
	wineral Resources Data System

#### EDR HIGH RISK HISTORICAL RECORDS

#### EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
	_ EDR Exclusive Historical Auto Stations
EDR Hist Cleaner	. EDR Exclusive Historical Cleaners

#### EDR RECOVERED GOVERNMENT ARCHIVES

#### **Exclusive Recovered Govt. Archives**

RGA LF\_\_\_\_\_ Recovered Government Archive Solid Waste Facilities List RGA LUST\_\_\_\_\_ Recovered Government Archive Leaking Underground Storage Tank

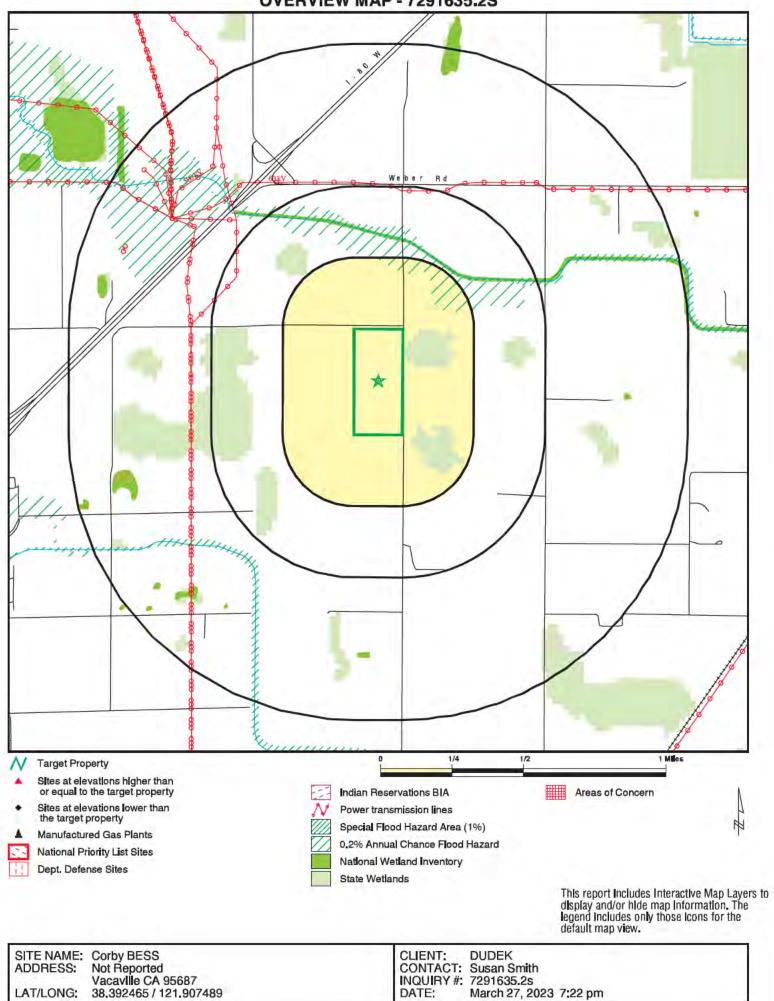
#### SURROUNDING SITES: SEARCH RESULTS

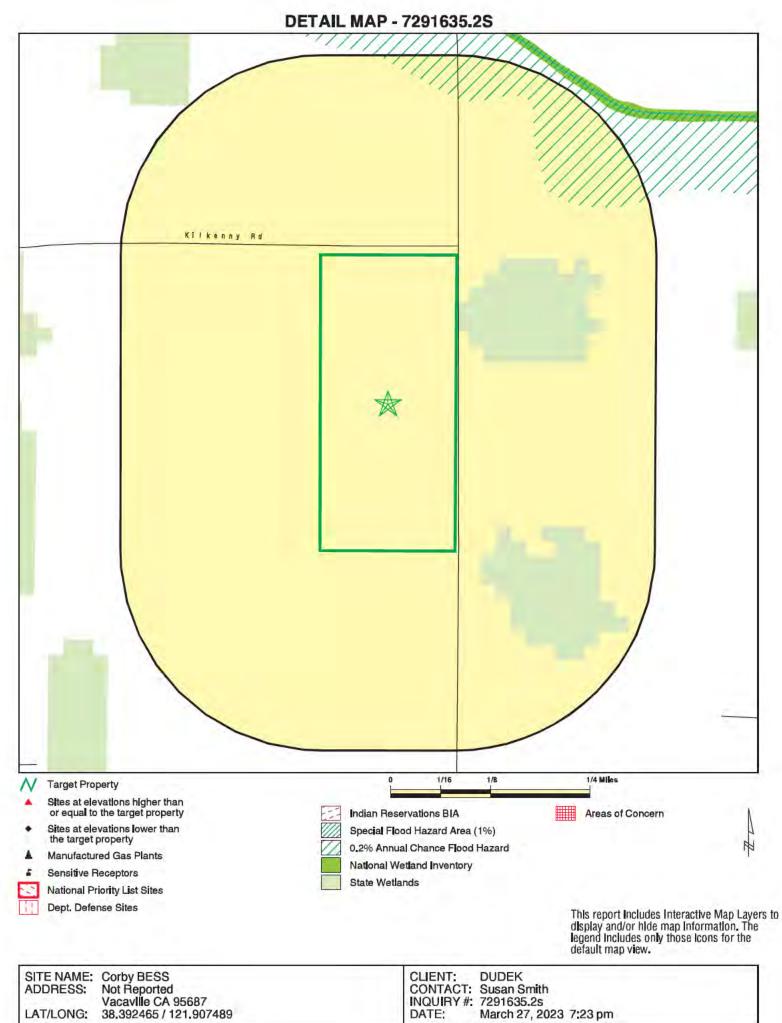
Surrounding sites were not identified.

Unmappable (orphan) sites are not considered in the foregoing analysis.

There were no unmapped sites in this report.

**OVERVIEW MAP - 7291635.2S** 





Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMEN	TAL RECORDS							
Lists of Federal NPL (Su	perfund) site	s						
NPL Proposed NPL NPL LIENS	1.000 1.000 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Lists of Federal Delisted	INPL sites							
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites su CERCLA removals and		ers						
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Lists of Federal CERCL	A sites with N	FRAP						
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA fa undergoing Corrective A								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA 7	SD facilities							
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA g	enerators							
RCRA-LQG RCRA-SQG RCRA-VSQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Federal institutional controls / engineering controls registries								
LUCIS US ENG CONTROLS US INST CONTROLS	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent								
RESPONSE	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste faciliti								
ENVIROSTOR	1.000		0	0	0	0	NR	0
Lists of state and tribal and solid waste disposa								
SWF/LF	0.500		0	0	0	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal	leaking stora	ge tanks						
LUST INDIAN LUST CPS-SLIC	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Lists of state and tribal	registered sto	orage tanks						
FEMA UST UST AST INDIAN UST	0.250 0.250 0.250 0.250		0 0 0	0 0 0 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 0 0 0
Lists of state and tribal	voluntary clea	anup sites						
INDIAN VCP VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Lists of state and tribal	brownfield si	tes						
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONME	NTAL RECORD	<u>s</u>						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Waste Disposal Sites	Solid							
WMUDS/SWAT SWRCY HAULERS INDIAN ODI ODI DEBRIS REGION 9 IHS OPEN DUMPS	0.500 0.500 0.001 0.500 0.500 0.500 0.500		0 0 0 0 0 0	0 0 NR 0 0 0 0	0 0 NR 0 0 0 0	NR NR NR NR NR NR	NR NR NR NR NR NR	0 0 0 0 0 0 0
Local Lists of Hazardou Contaminated Sites	is waste /							
US HIST CDL HIST Cal-Sites SCH CDL CERS HAZ WASTE Toxic Pits US CDL	0.001 1.000 0.250 0.001 0.250 1.000 0.001		0 0 0 0 0 0	NR 0 0 NR 0 0 NR	NR 0 NR NR 0 NR	NR 0 NR NR NR 0 NR	NR NR NR NR NR NR	0 0 0 0 0 0
Local Lists of Registere	•	nks						
SWEEPS UST HIST UST CERS TANKS CA FID UST	0.250 0.250 0.250 0.250		0 0 0	0 0 0 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 0 0 0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2 DEED	0.001 0.500		0 0	NR 0	NR 0	NR NR	NR NR	0 0
Records of Emergency F	Release Repo	orts						
HMIRS CHMIRS LDS MCS SPILLS 90	0.001 0.001 0.001 0.001 0.001		0 0 0 0	NR NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	0 0 0 0
Other Ascertainable Rec	ords							
RCRA NonGen / NLR FUDS DOD SCRD DRYCLEANERS US FIN ASSUR EPA WATCH LIST 2020 COR ACTION TSCA TRIS SSTS ROD RMP RAATS PRP PADS ICIS FTTS MLTS COAL ASH DOE COAL ASH DOE COAL ASH EPA PCB TRANSFORMER RADINFO HIST FTTS DOT OPS CONSENT INDIAN RESERV FUSRAP UMTRA LEAD SMELTERS US AIRS US MINES ABANDONED MINES EINDS	0.250 1.000 1.000 0.500 0.001 0.250 0.001 0			0 0 0 0 RR 0 RR R 0 RR RR RR RR 0 RR R 0 0 0 0 0 RR 0 0 RR 0 RR RR	NR 0 0 0 RR RR R 0 RR RR RR RR R 0 RR RR	NR 0 0 R R R R R N 0 N N N N N N N N N N	NR R R R R R R R R R R R R R R R R R R	
FINDS DOCKET HWC ECHO UXO FUELS PROGRAM PFAS NPL PFAS FEDERAL SITES PFAS TSCA	0.001 0.001 1.000 0.250 0.250 0.250 0.250		0 0 0 0 0 0 0	NR NR 0 0 0 0 0	NR NR O NR NR NR NR	NR NR 0 NR NR NR NR	NR NR NR NR NR NR NR	0 0 0 0 0 0 0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		Õ	Ō	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAINI			0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT			0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM	TP		NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0		NR	0
CURAListings	0.500 0.250		0 0	0 0	0 NR	NR NR	NR NR	0
CUPA Listings DRYCLEANERS	0.250		0	0	NR	NR	NR	0 0
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0 0	NR	NR	NR	NR	õ
Financial Assurance	0.001		Õ	NR	NR	NR	NR	Õ
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES PEST LIC	0.001 0.001		0 0	NR NR	NR NR	NR NR	NR NR	0 0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
HAZMAT	0.250		Ő	Ő	NR	NR	NR	ŏ
UIC	0.001		0	NR	NR	NR	NR	Ō
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR CIWQS	0.001 0.001		0 0	NR NR	NR NR	NR NR	NR NR	0 0
CERS	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		Õ	NR	NR	NR	NR	Õ
SAMPLING POINT	0.001		0	NR	NR	NR	NR	Ō
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICA	L RECORDS							
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR Hist Auto EDR Hist Cleaner	0.125 0.125		0 0	NR NR	NR NR	NR NR	NR NR	0 0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Go	vt. Archives							
RGA LF RGA LUST	0.001 0.001		0 0	NR NR	NR NR	NR NR	NR NR	0 0
- Totals		0	0	0	0	0	0	0

## NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Database(s) E

EDR ID Number EPA ID Number

NO SITES FOUND

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
	_				

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

### Lists of Federal NPL (Superfund) sites

NPL: National Priority List

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

Date of Government Version: 01/25/2023 Date Data Arrived at EDR: 02/03/2023 Date Made Active in Reports: 02/28/2023 Number of Days to Update: 25 Source: EPA Telephone: N/A Last EDR Contact: 03/01/2023 Next Scheduled EDR Contact: 04/10/2023 Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC) Telephone: 202-564-7333

EPA Region 1 Telephone 617-918-1143

EPA Region 3 Telephone 215-814-5418

EPA Region 4 Telephone 404-562-8033

EPA Region 5 Telephone 312-886-6686

EPA Region 10 Telephone 206-553-8665 EPA Region 6 Telephone: 214-655-6659

EPA Region 7 Telephone: 913-551-7247

EPA Region 8 Telephone: 303-312-6774

EPA Region 9 Telephone: 415-947-4246

### 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: 01/25/2023 Date Data Arrived at EDR: 02/02/2023 Date Made Active in Reports: 02/28/2023 Number of Days to Update: 26 Source: EPA Telephone: N/A Last EDR Contact: 03/01/2023 Next Scheduled EDR Contact: 04/10/2023 Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994 Number of Days to Update: 56 Source: EPA Telephone: 202-564-4267 Last EDR Contact: 08/15/2011 Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

### Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

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

Date of Government Version: 01/25/2023 Date Data Arrived at EDR: 02/02/2023 Date Made Active in Reports: 02/28/2023 Number of Days to Update: 26 Source: EPA Telephone: N/A Last EDR Contact: 03/01/2023 Next Scheduled EDR Contact: 04/10/2023 Data Release Frequency: Quarterly

### Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/20/2022 Date Data Arrived at EDR: 12/21/2022 Date Made Active in Reports: 03/10/2023 Number of Days to Update: 79 Source: Environmental Protection Agency Telephone: 703-603-8704 Last EDR Contact: 12/21/2022 Next Scheduled EDR Contact: 04/10/2023 Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/25/2023 Date Data Arrived at EDR: 02/02/2023 Date Made Active in Reports: 02/28/2023 Number of Days to Update: 26 Source: EPA Telephone: 800-424-9346 Last EDR Contact: 03/01/2023 Next Scheduled EDR Contact: 04/24/2023 Data Release Frequency: Quarterly

### Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 01/25/2023 Date Data Arrived at EDR: 02/02/2023 Date Made Active in Reports: 02/28/2023 Number of Days to Update: 26 Source: EPA Telephone: 800-424-9346 Last EDR Contact: 03/01/2023 Next Scheduled EDR Contact: 04/24/2023 Data Release Frequency: Quarterly

### Lists of Federal RCRA facilities undergoing Corrective Action

### CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/06/2023	Source: EPA
Date Data Arrived at EDR: 03/09/2023	Telephone: 800-424-9346
Date Made Active in Reports: 03/20/2023	Last EDR Contact: 03/09/2023
Number of Days to Update: 11	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: Quarterly

### Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

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

Date of Government Version: 03/06/2023 Date Data Arrived at EDR: 03/09/2023 Date Made Active in Reports: 03/20/2023 Number of Days to Update: 11 Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 03/09/2023 Next Scheduled EDR Contact: 07/03/2023 Data Release Frequency: Quarterly

### Lists of Federal RCRA generators

## RCRA-LQG: RCRA - Large Quantity Generators

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

Date of Government Version: 03/06/2023 Date Data Arrived at EDR: 03/09/2023 Date Made Active in Reports: 03/20/2023 Number of Days to Update: 11 Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 03/09/2023 Next Scheduled EDR Contact: 07/03/2023 Data Release Frequency: Quarterly

#### RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/06/2023 Date Data Arrived at EDR: 03/09/2023 Date Made Active in Reports: 03/20/2023 Number of Days to Update: 11 Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 03/09/2023 Next Scheduled EDR Contact: 07/03/2023 Data Release Frequency: Quarterly

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

Date of Government Version: 03/06/2023 Date Data Arrived at EDR: 03/09/2023 Date Made Active in Reports: 03/20/2023 Number of Days to Update: 11 Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 03/09/2023 Next Scheduled EDR Contact: 07/03/2023 Data Release Frequency: Quarterly

### Federal institutional controls / engineering controls registries

### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/02/2022 Date Data Arrived at EDR: 11/08/2022 Date Made Active in Reports: 01/10/2023 Number of Days to Update: 63 Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 02/03/2023 Next Scheduled EDR Contact: 05/22/2023 Data Release Frequency: Varies

### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 10/27/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/16/2022	Telephone: 703-603-0695
Date Made Active in Reports: 02/09/2023	Last EDR Contact: 02/21/2023
Number of Days to Update: 85	Next Scheduled EDR Contact: 06/05/2023
	Data Release Frequency: Varies

### US INST CONTROLS: Institutional Controls Sites List

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

Date of Government Version: 10/27/2022 Date Data Arrived at EDR: 11/16/2022 Date Made Active in Reports: 02/09/2023 Number of Days to Update: 85 Source: Environmental Protection Agency Telephone: 703-603-0695 Last EDR Contact: 02/21/2023 Next Scheduled EDR Contact: 06/05/2023 Data Release Frequency: Varies

### Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/12/2022 Date Data Arrived at EDR: 12/14/2022 Date Made Active in Reports: 12/19/2022 Number of Days to Update: 5 Source: National Response Center, United States Coast Guard Telephone: 202-267-2180 Last EDR Contact: 03/21/2023 Next Scheduled EDR Contact: 07/03/2023 Data Release Frequency: Quarterly

### Lists of state- and tribal (Superfund) equivalent sites

### **RESPONSE:** State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/24/2022	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/24/2022	Telephone: 916-323-3400
Date Made Active in Reports: 01/12/2023	Last EDR Contact: 01/24/2023
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/08/2023
	Data Release Frequency: Quarterly

### Lists of state- and tribal hazardous waste facilities

### ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/24/2022 Date Data Arrived at EDR: 10/24/2022 Date Made Active in Reports: 01/12/2023 Number of Days to Update: 80 Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 01/24/2023 Next Scheduled EDR Contact: 05/08/2023 Data Release Frequency: Quarterly

### Lists of state and tribal landfills and solid waste disposal facilities

### SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/03/2022 Date Data Arrived at EDR: 11/03/2022 Date Made Active in Reports: 01/25/2023 Number of Days to Update: 83 Source: Department of Resources Recycling and Recovery Telephone: 916-341-6320 Last EDR Contact: 02/07/2023 Next Scheduled EDR Contact: 05/22/2023 Data Release Frequency: Quarterly

### Lists of state and tribal leaking storage tanks

Data of Covernment Version, 05/40/0000	Courses, Colifornia Degianal Water Quality Control Deard Control Const Degian (0)
Date of Government Version: 05/19/2003 Date Data Arrived at EDR: 05/19/2003 Date Made Active in Reports: 06/02/2003 Number of Days to Update: 14	Source: California Regional Water Quality Control Board Central Coast Region (3) Telephone: 805-542-4786 Last EDR Contact: 07/18/2011 Next Scheduled EDR Contact: 10/31/2011 Data Release Frequency: No Update Planned
LUST REG 4: Underground Storage Tank Leak Lis Los Angeles, Ventura counties. For more cur Board's LUST database.	st rent information, please refer to the State Water Resources Control
Date of Government Version: 09/07/2004 Date Data Arrived at EDR: 09/07/2004 Date Made Active in Reports: 10/12/2004 Number of Days to Update: 35	Source: California Regional Water Quality Control Board Los Angeles Region (4) Telephone: 213-576-6710 Last EDR Contact: 09/06/2011 Next Scheduled EDR Contact: 12/19/2011 Data Release Frequency: No Update Planned
LUST REG 6L: Leaking Underground Storage Tar For more current information, please refer to	nk Case Listing the State Water Resources Control Board's LUST database.
Date of Government Version: 09/09/2003 Date Data Arrived at EDR: 09/10/2003 Date Made Active in Reports: 10/07/2003 Number of Days to Update: 27	Source: California Regional Water Quality Control Board Lahontan Region (6) Telephone: 530-542-5572 Last EDR Contact: 09/12/2011 Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: No Update Planned
LUST REG 7: Leaking Underground Storage Tank Leaking Underground Storage Tank locations	Case Listing s. Imperial, Riverside, San Diego, Santa Barbara counties.
Date of Government Version: 02/26/2004 Date Data Arrived at EDR: 02/26/2004 Date Made Active in Reports: 03/24/2004 Number of Days to Update: 27	Source: California Regional Water Quality Control Board Colorado River Basin Region ( Telephone: 760-776-8943 Last EDR Contact: 08/01/2011 Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned
LUST REG 8: Leaking Underground Storage Tank California Regional Water Quality Control Board's to the State Water Resources Control Board's	ard Santa Ana Region (8). For more current information, please refer
Date of Government Version: 02/14/2005 Date Data Arrived at EDR: 02/15/2005 Date Made Active in Reports: 03/28/2005 Number of Days to Update: 41	Source: California Regional Water Quality Control Board Santa Ana Region (8) Telephone: 909-782-4496 Last EDR Contact: 08/15/2011 Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned
LUST REG 9: Leaking Underground Storage Tank Orange, Riverside, San Diego counties. For r Control Board's LUST database.	Report nore current information, please refer to the State Water Resources
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

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/02/2022 Date Data Arrived at EDR: 12/02/2022 Date Made Active in Reports: 02/22/2023 Number of Days to Update: 82	Source: State Water Resources Control Board Telephone: see region list Last EDR Contact: 03/07/2023 Next Scheduled EDR Contact: 06/19/2023 Data Release Frequency: Quarterly
LUST REG 2: Fuel Leak List Leaking Underground Storage Tank locations. Clara, Solano, Sonoma counties.	Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa
Date of Government Version: 09/30/2004 Date Data Arrived at EDR: 10/20/2004 Date Made Active in Reports: 11/19/2004 Number of Days to Update: 30	Source: California Regional Water Quality Control Board San Francisco Bay Region (2) Telephone: 510-622-2433 Last EDR Contact: 09/19/2011 Next Scheduled EDR Contact: 01/02/2012 Data Release Frequency: No Update Planned
LUST REG 1: Active Toxic Site Investigation Del Norte, Humboldt, Lake, Mendocino, Modo please refer to the State Water Resources Con	c, Siskiyou, Sonoma, Trinity counties. For more current information, ntrol Board's LUST database.
Date of Government Version: 02/01/2001 Date Data Arrived at EDR: 02/28/2001 Date Made Active in Reports: 03/29/2001 Number of Days to Update: 29	Source: California Regional Water Quality Control Board North Coast (1) Telephone: 707-570-3769 Last EDR Contact: 08/01/2011 Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned
LUST REG 6V: Leaking Underground Storage Tanl Leaking Underground Storage Tank locations.	k Case Listing Inyo, Kern, Los Angeles, Mono, San Bernardino counties.
Date of Government Version: 06/07/2005 Date Data Arrived at EDR: 06/07/2005 Date Made Active in Reports: 06/29/2005 Number of Days to Update: 22	Source: California Regional Water Quality Control Board Victorville Branch Office (6) Telephone: 760-241-7365 Last EDR Contact: 09/12/2011 Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: No Update Planned
Dorado, Fresno, Glenn, Kern, Kings, Lake, La	Database Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El ssen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, anislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.
Date of Government Version: 07/01/2008 Date Data Arrived at EDR: 07/22/2008 Date Made Active in Reports: 07/31/2008 Number of Days to Update: 9	Source: California Regional Water Quality Control Board Central Valley Region (5) Telephone: 916-464-4834 Last EDR Contact: 07/01/2011 Next Scheduled EDR Contact: 10/17/2011 Data Release Frequency: No Update Planned
INDIAN LUST R1: Leaking Underground Storage T A listing of leaking underground storage tank le	
Date of Government Version: 10/19/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023 Number of Days to Update: 87	Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 01/17/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies
INDIAN LUST R4: Leaking Underground Storage T LUSTs on Indian land in Florida, Mississippi a	
Date of Government Version: 11/26/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023 Number of Days to Update: 87	Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 01/17/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage T LUSTs on Indian land in Iowa, Kansas, and N	
Date of Government Version: 10/14/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023 Number of Days to Update: 87	Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 01/17/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies
INDIAN LUST R8: Leaking Underground Storage T LUSTs on Indian land in Colorado, Montana,	Fanks on Indian Land North Dakota, South Dakota, Utah and Wyoming.
Date of Government Version: 11/23/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023 Number of Days to Update: 87	Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 01/17/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies
INDIAN LUST R9: Leaking Underground Storage T LUSTs on Indian land in Arizona, California, N	
Date of Government Version: 11/23/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023 Number of Days to Update: 87	Source: Environmental Protection Agency Telephone: 415-972-3372 Last EDR Contact: 01/17/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies
INDIAN LUST R5: Leaking Underground Storage T Leaking underground storage tanks located o	Fanks on Indian Land n Indian Land in Michigan, Minnesota and Wisconsin.
Date of Government Version: 10/14/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023 Number of Days to Update: 87	Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 01/17/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies
INDIAN LUST R6: Leaking Underground Storage LUSTs on Indian land in New Mexico and Okl	
Date of Government Version: 11/23/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023 Number of Days to Update: 87	Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 01/17/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies
INDIAN LUST R10: Leaking Underground Storage LUSTs on Indian land in Alaska, Idaho, Orego	
Date of Government Version: 04/20/2022 Date Data Arrived at EDR: 06/13/2022 Date Made Active in Reports: 08/16/2022 Number of Days to Update: 64	Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 01/17/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies
and Cleanups [SLIC] sites) included in GeoTr	R) Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, acker. GeoTracker is the Water Boards data management system for act, water quality in California, with emphasis on groundwater.
Date of Government Version: 12/02/2022 Date Data Arrived at EDR: 12/02/2022 Date Made Active in Reports: 02/22/2023 Number of Days to Update: 82	Source: State Water Resources Control Board Telephone: 866-480-1028 Last EDR Contact: 03/07/2023 Next Scheduled EDR Contact: 06/19/2023 Data Release Frequency: Varies

Data Release Frequency: Varies

	SLIC REG 1: Active Toxic Site Investigations The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.		
	Date of Government Version: 04/03/2003 Date Data Arrived at EDR: 04/07/2003 Date Made Active in Reports: 04/25/2003 Number of Days to Update: 18	Source: California Regional Water Quality Control Board, North Coast Region (1) Telephone: 707-576-2220 Last EDR Contact: 08/01/2011 Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned	
SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.			
	Date of Government Version: 09/30/2004 Date Data Arrived at EDR: 10/20/2004 Date Made Active in Reports: 11/19/2004 Number of Days to Update: 30	Source: Regional Water Quality Control Board San Francisco Bay Region (2) Telephone: 510-286-0457 Last EDR Contact: 09/19/2011 Next Scheduled EDR Contact: 01/02/2012 Data Release Frequency: No Update Planned	
SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.			
	Date of Government Version: 05/18/2006 Date Data Arrived at EDR: 05/18/2006 Date Made Active in Reports: 06/15/2006 Number of Days to Update: 28	Source: California Regional Water Quality Control Board Central Coast Region (3) Telephone: 805-549-3147 Last EDR Contact: 07/18/2011 Next Scheduled EDR Contact: 10/31/2011 Data Release Frequency: No Update Planned	
	SLIC REG 4: Spills, Leaks, Investigation & Cleanu The SLIC (Spills, Leaks, Investigations and C from spills, leaks, and similar discharges.	p Cost Recovery Listing leanup) program is designed to protect and restore water quality	
	Date of Government Version: 11/17/2004 Date Data Arrived at EDR: 11/18/2004 Date Made Active in Reports: 01/04/2005 Number of Days to Update: 47	Source: Region Water Quality Control Board Los Angeles Region (4) Telephone: 213-576-6600 Last EDR Contact: 07/01/2011 Next Scheduled EDR Contact: 10/17/2011 Data Release Frequency: No Update Planned	
SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.			
	Date of Government Version: 04/01/2005 Date Data Arrived at EDR: 04/05/2005 Date Made Active in Reports: 04/21/2005 Number of Days to Update: 16	Source: Regional Water Quality Control Board Central Valley Region (5) Telephone: 916-464-3291 Last EDR Contact: 09/12/2011 Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: No Update Planned	
	SLIC REG 6V: Spills, Leaks, Investigation & Clean The SLIC (Spills, Leaks, Investigations and C from spills, leaks, and similar discharges.	hup Cost Recovery Listing leanup) program is designed to protect and restore water quality	
	Date of Government Version: 05/24/2005 Date Data Arrived at EDR: 05/25/2005 Date Made Active in Reports: 06/16/2005 Number of Days to Update: 22	Source: Regional Water Quality Control Board, Victorville Branch Telephone: 619-241-6583 Last EDR Contact: 08/15/2011 Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned	

SLIC REG 6L: SLIC Sites The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.		
Date of Government Version: 09/07/2004 Date Data Arrived at EDR: 09/07/2004 Date Made Active in Reports: 10/12/2004 Number of Days to Update: 35	Source: California Regional Water Quality Control Board, Lahontan Region Telephone: 530-542-5574 Last EDR Contact: 08/15/2011 Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned	
SLIC REG 7: SLIC List The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.		
Date of Government Version: 11/24/2004 Date Data Arrived at EDR: 11/29/2004 Date Made Active in Reports: 01/04/2005 Number of Days to Update: 36	Source: California Regional Quality Control Board, Colorado River Basin Region Telephone: 760-346-7491 Last EDR Contact: 08/01/2011 Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned	
SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.		
Date of Government Version: 04/03/2008 Date Data Arrived at EDR: 04/03/2008 Date Made Active in Reports: 04/14/2008 Number of Days to Update: 11	Source: California Region Water Quality Control Board Santa Ana Region (8) Telephone: 951-782-3298 Last EDR Contact: 09/12/2011 Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: No Update Planned	
SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.		
Date of Government Version: 09/10/2007 Date Data Arrived at EDR: 09/11/2007 Date Made Active in Reports: 09/28/2007 Number of Days to Update: 17	Source: California Regional Water Quality Control Board San Diego Region (9) Telephone: 858-467-2980 Last EDR Contact: 08/08/2011 Next Scheduled EDR Contact: 11/21/2011 Data Release Frequency: No Update Planned	
Lists of state and tribal registered storage tanks		
FEMA UST: Underground Storage Tank Listing A listing of all FEMA owned underground storage tanks.		

Date of Government Version: 10/14/2021	Source: FEMA
Date Data Arrived at EDR: 11/05/2021	Telephone: 202-646-5797
Date Made Active in Reports: 02/01/2022	Last EDR Contact: 12/28/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER) Military ust sites

Date of Government Version: 12/02/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/02/2022	Telephone: 866-480-1028
Date Made Active in Reports: 02/21/2023	Last EDR Contact: 03/07/2023
Number of Days to Update: 81	Next Scheduled EDR Contact: 06/19/2023
	Data Release Frequency: Varies

### UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 11/28/2022 Date Data Arrived at EDR: 12/02/2022 Date Made Active in Reports: 02/23/2023 Number of Days to Update: 83 Source: State Water Resources Control Board Telephone: 916-327-7844 Last EDR Contact: 03/07/2023 Next Scheduled EDR Contact: 06/19/2023 Data Release Frequency: Varies

### UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/02/2022	Source: SWRCB
Date Data Arrived at EDR: 12/02/2022	Telephone: 916-341-5851
Date Made Active in Reports: 02/22/2023	Last EDR Contact: 03/07/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 06/19/2023
	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: 07/06/2016	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 07/12/2016	Telephone: 916-327-5092
Date Made Active in Reports: 09/19/2016	Last EDR Contact: 03/09/2023
Number of Days to Update: 69	Next Scheduled EDR Contact: 06/26/2023
	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: 11/23/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023 Number of Days to Update: 87 Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 01/17/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/14/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023 Number of Days to Update: 87 Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 01/17/2023 Next Scheduled EDR Contact: 05/01/2023 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: 11/23/2022SoDate Data Arrived at EDR: 12/06/2022TeDate Made Active in Reports: 03/03/2023LaNumber of Days to Update: 87Ne

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 01/17/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies

### INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/19/2022	Source: EPA, Region 1
Date Data Arrived at EDR: 12/06/2022	Telephone: 617-918-1313
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 01/17/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

### INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 11/23/2022	Source: EPA Region 9
Date Data Arrived at EDR: 12/06/2022	Telephone: 415-972-3368
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 01/17/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 05/01/2023
	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: 11/23/2022	Source: EPA Region 8
Date Data Arrived at EDR: 12/06/2022	Telephone: 303-312-6137
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 01/17/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

### INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/14/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 01/17/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies

### INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/20/2022 Date Data Arrived at EDR: 06/13/2022 Date Made Active in Reports: 08/16/2022 Number of Days to Update: 64 Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 01/17/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies

### Lists of state and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 07/08/2021
Number of Days to Update: 27	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: 10/24/2022	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/24/2022	Telephone: 916-323-3400
Date Made Active in Reports: 01/12/2023	Last EDR Contact: 01/24/2023
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/08/2023
	Data Release Frequency: Quarterly

### INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 03/17/2023
Number of Days to Update: 142	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: Varies

### Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 12/14/2022 Date Data Arrived at EDR: 12/14/2022 Date Made Active in Reports: 03/07/2023 Number of Days to Update: 83 Source: State Water Resources Control Board Telephone: 916-323-7905 Last EDR Contact: 03/21/2023 Next Scheduled EDR Contact: 07/03/2023 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: 02/23/2022 Date Data Arrived at EDR: 03/10/2022 Date Made Active in Reports: 03/10/2022 Number of Days to Update: 0 Source: Environmental Protection Agency Telephone: 202-566-2777 Last EDR Contact: 03/14/2023 Next Scheduled EDR Contact: 06/26/2023 Data Release Frequency: Semi-Annually

### Local Lists of Landfill / Solid Waste Disposal Sites

#### WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000 Date Data Arrived at EDR: 04/10/2000 Date Made Active in Reports: 05/10/2000 Number of Days to Update: 30	Source: State Water Resources Control Board Telephone: 916-227-4448 Last EDR Contact: 01/20/2023 Next Scheduled EDR Contact: 05/08/2023 Data Release Frequency: No Update Planned	
SWRCY: Recycler Database A listing of recycling facilities in California.		
Date of Government Version: 12/02/2022 Date Data Arrived at EDR: 12/02/2022 Date Made Active in Reports: 02/22/2023 Number of Days to Update: 82	Source: Department of Conservation Telephone: 916-323-3836 Last EDR Contact: 03/07/2023 Next Scheduled EDR Contact: 06/19/2023 Data Release Frequency: Quarterly	
HAULERS: Registered Waste Tire Haulers Listing A listing of registered waste tire haulers.		
Date of Government Version: 11/16/2022 Date Data Arrived at EDR: 11/22/2022 Date Made Active in Reports: 02/13/2023 Number of Days to Update: 83	Source: Integrated Waste Management Board Telephone: 916-341-6422 Last EDR Contact: 02/15/2023 Next Scheduled EDR Contact: 05/22/2023 Data Release Frequency: Varies	
INDIAN ODI: Report on the Status of Open Dumps Location of open dumps on Indian land.	on Indian Lands	
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: 01/20/2023 Next Scheduled EDR Contact: 05/08/2023 Data Release Frequency: Varies	
DEBRIS REGION 9: Torres Martinez Reservation I A listing of illegal dump sites location on the T County and northern Imperial County, Californ	orres Martinez Indian Reservation located in eastern Riverside	
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: 01/13/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: No Update Planned	
ODI: Open Dump Inventory An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.		
Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004 Number of Days to Update: 39	Source: Environmental Protection Agency Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned	
IHS OPEN DUMPS: Open Dumps on Indian Land A listing of all open dumps located on Indian Land in the United States.		
Date of Government Version: 04/01/2014 Date Data Arrived at EDR: 08/06/2014 Date Made Active in Reports: 01/29/2015 Number of Days to Update: 176	Source: Department of Health & Human Serivces, Indian Health Service Telephone: 301-443-1452 Last EDR Contact: 01/27/2023 Next Scheduled EDR Contact: 05/08/2023 Data Release Frequency: Varies	

### Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 01/06/2023	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 02/02/2023	Telephone: 202-307-1000
Date Made Active in Reports: 02/10/2023	Last EDR Contact: 02/02/2023
Number of Days to Update: 8	Next Scheduled EDR Contact: 06/05/2023
	Data Release Frequency: No Update Planned

## HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005 Date Data Arrived at EDR: 08/03/2006 Date Made Active in Reports: 08/24/2006 Number of Days to Update: 21 Source: Department of Toxic Substance Control Telephone: 916-323-3400 Last EDR Contact: 02/23/2009 Next Scheduled EDR Contact: 05/25/2009 Data Release Frequency: No Update Planned

### SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/24/2022 Date Data Arrived at EDR: 10/24/2022 Date Made Active in Reports: 01/12/2023 Number of Days to Update: 80 Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 01/24/2023 Next Scheduled EDR Contact: 05/08/2023 Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2020 Date Data Arrived at EDR: 11/30/2022 Date Made Active in Reports: 02/09/2023 Number of Days to Update: 71 Source: Department of Toxic Substances Control Telephone: 916-255-6504 Last EDR Contact: 03/22/2023 Next Scheduled EDR Contact: 05/15/2023 Data Release Frequency: Varies

### TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995 Date Data Arrived at EDR: 08/30/1995 Date Made Active in Reports: 09/26/1995 Number of Days to Update: 27 Source: State Water Resources Control Board Telephone: 916-227-4364 Last EDR Contact: 01/26/2009 Next Scheduled EDR Contact: 04/27/2009 Data Release Frequency: No Update Planned

### CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 01/05/2023 Date Data Arrived at EDR: 01/06/2023 Date Made Active in Reports: 01/11/2023 Number of Days to Update: 5

Source: CalEPA Telephone: 916-323-2514 Last EDR Contact: 01/06/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 01/06/2023 Date Data Arrived at EDR: 02/02/2023 Date Made Active in Reports: 02/10/2023 Number of Days to Update: 8

Source: Drug Enforcement Administration Telephone: 202-307-1000 Last EDR Contact: 02/02/2023 Next Scheduled EDR Contact: 06/05/2023 Data Release Frequency: Quarterly

### Local Lists of Registered Storage Tanks

### SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### HIST UST: Hazardous Substance Storage Container Database

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

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

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

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing Aboveground storage tank sites

Date of Government Version: 11/03/2022 Date Data Arrived at EDR: 11/07/2022 Date Made Active in Reports: 01/24/2023 Number of Days to Update: 78

Source: San Francisco County Department of Public Health Telephone: 415-252-3896 Last EDR Contact: 01/27/2023 Next Scheduled EDR Contact: 05/15/2023 Data Release Frequency: Varies

### CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994 Date Data Arrived at EDR: 09/05/1995 Date Made Active in Reports: 09/29/1995 Number of Days to Update: 24

Source: California Environmental Protection Agency Telephone: 916-341-5851 Last EDR Contact: 12/28/1998 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

### CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 01/06/2023 Date Data Arrived at EDR: 01/06/2023 Date Made Active in Reports: 01/11/2023 Number of Days to Update: 5 Source: California Environmental Protection Agency Telephone: 916-323-2514 Last EDR Contact: 10/17/2022 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Quarterly

#### Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/23/2023 Date Data Arrived at EDR: 02/24/2023 Date Made Active in Reports: 03/23/2023 Number of Days to Update: 27 Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 02/23/2023 Next Scheduled EDR Contact: 06/12/2023 Data Release Frequency: Varies

### LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 01/25/2023 Date Data Arrived at EDR: 02/02/2023 Date Made Active in Reports: 02/28/2023 Number of Days to Update: 26 Source: Environmental Protection Agency Telephone: 202-564-6023 Last EDR Contact: 03/01/2023 Next Scheduled EDR Contact: 04/10/2023 Data Release Frequency: Semi-Annually

## DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 11/28/2022 Date Data Arrived at EDR: 11/29/2022 Date Made Active in Reports: 02/13/2023 Number of Days to Update: 76 Source: DTSC and SWRCB Telephone: 916-323-3400 Last EDR Contact: 02/28/2023 Next Scheduled EDR Contact: 06/12/2023 Data Release Frequency: Semi-Annually

#### **Records of Emergency Release Reports**

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/13/2022	Source: U.S
Date Data Arrived at EDR: 12/14/2022	Telephone:
Date Made Active in Reports: 03/10/2023	Last EDR Co
Number of Days to Update: 86	Next Schedu

Source: U.S. Department of Transportation Telephone: 202-366-4555 Last EDR Contact: 03/21/2023 Next Scheduled EDR Contact: 07/03/2023 Data Release Frequency: Quarterly

### CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 08/02/2022 Date Data Arrived at EDR: 10/17/2022 Date Made Active in Reports: 01/04/2023 Number of Days to Update: 79 Source: Office of Emergency Services Telephone: 916-845-8400 Last EDR Contact: 01/20/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Semi-Annually

#### LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/02/2022Source: State Water Quality Control BoardDate Data Arrived at EDR: 12/02/2022Telephone: 866-480-1028Date Made Active in Reports: 02/21/2023Last EDR Contact: 03/07/2023Number of Days to Update: 81Next Scheduled EDR Contact: 06/19/2023Date Release Frequency: Quarterly

### MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/02/2022 Date Data Arrived at EDR: 12/02/2022 Date Made Active in Reports: 02/21/2023 Number of Days to Update: 81 Source: State Water Resources Control Board Telephone: 866-480-1028 Last EDR Contact: 03/07/2023 Next Scheduled EDR Contact: 06/19/2023 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	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

#### Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/06/2023 Date Data Arrived at EDR: 03/09/2023 Date Made Active in Reports: 03/20/2023 Number of Days to Update: 11 Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 03/09/2023 Next Scheduled EDR Contact: 07/03/2023 Data Release Frequency: Quarterly

### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 11/01/2022 Date Data Arrived at EDR: 11/10/2022 Date Made Active in Reports: 02/09/2023 Number of Days to Update: 91 Source: U.S. Army Corps of Engineers Telephone: 202-528-4285 Last EDR Contact: 02/14/2023 Next Scheduled EDR Contact: 05/29/2023 Data Release Frequency: Varies

DOD: Department of Defense Sites

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

Date of Government Version: 06/07/2021 Date Data Arrived at EDR: 07/13/2021 Date Made Active in Reports: 03/09/2022 Number of Days to Update: 239 Source: USGS Telephone: 888-275-8747 Last EDR Contact: 01/13/2023 Next Scheduled EDR Contact: 04/24/2023 Data Release Frequency: Varies

### FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 01/03/2023
Number of Days to Update: 574	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: N/A

## SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021 Date Data Arrived at EDR: 02/03/2023 Date Made Active in Reports: 02/10/2023 Number of Days to Update: 7 Source: Environmental Protection Agency Telephone: 615-532-8599 Last EDR Contact: 02/02/2023 Next Scheduled EDR Contact: 05/22/2023 Data Release Frequency: Varies

### US FIN ASSUR: Financial Assurance Information

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

Date of Government Version: 12/13/2022 Date Data Arrived at EDR: 12/14/2022 Date Made Active in Reports: 03/10/2023 Number of Days to Update: 86 Source: Environmental Protection Agency Telephone: 202-566-1917 Last EDR Contact: 03/21/2023 Next Scheduled EDR Contact: 07/03/2023 Data Release Frequency: Quarterly

### EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013 Date Data Arrived at EDR: 03/21/2014 Date Made Active in Reports: 06/17/2014 Number of Days to Update: 88 Source: Environmental Protection Agency Telephone: 617-520-3000 Last EDR Contact: 01/30/2023 Next Scheduled EDR Contact: 05/15/2023 Data Release Frequency: Quarterly

### 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017 Date Data Arrived at EDR: 05/08/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 73 Source: Environmental Protection Agency Telephone: 703-308-4044 Last EDR Contact: 02/03/2023 Next Scheduled EDR Contact: 05/15/2023 Data Release Frequency: Varies

### TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020 Date Data Arrived at EDR: 06/14/2022 Date Made Active in Reports: 03/24/2023 Number of Days to Update: 283 Source: EPA Telephone: 202-260-5521 Last EDR Contact: 03/13/2023 Next Scheduled EDR Contact: 06/26/2023 Data Release Frequency: Every 4 Years

## TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2021 Date Data Arrived at EDR: 11/01/2022 Date Made Active in Reports: 02/09/2023 Number of Days to Update: 100 Source: EPA Telephone: 202-566-0250 Last EDR Contact: 02/16/2023 Next Scheduled EDR Contact: 05/29/2023 Data Release Frequency: Annually

### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 10/17/2022Source: EPADate Data Arrived at EDR: 10/18/2022Telephone: 202-564-4203Date Made Active in Reports: 01/10/2023Last EDR Contact: 01/18/2023Number of Days to Update: 84Next Scheduled EDR Contact: 05/01/2023Data Release Frequency: Annually

### ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/25/2023 Date Data Arrived at EDR: 02/02/2023 Date Made Active in Reports: 02/28/2023 Number of Days to Update: 26 Source: EPA Telephone: 703-416-0223 Last EDR Contact: 03/01/2023 Next Scheduled EDR Contact: 06/12/2023 Data Release Frequency: Annually

### RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022 Date Data Arrived at EDR: 05/04/2022 Date Made Active in Reports: 05/10/2022 Number of Days to Update: 6 Source: Environmental Protection Agency Telephone: 202-564-8600 Last EDR Contact: 01/17/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies

### RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995 Number of Days to Update: 35 Source: EPA Telephone: 202-564-4104 Last EDR Contact: 06/02/2008 Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

#### PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 03/01/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Quarterly

#### PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2022	Source: EPA
Date Data Arrived at EDR: 01/20/2022	Telephone: 202-566-0500
Date Made Active in Reports: 03/25/2022	Last EDR Contact: 01/04/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Annually

### ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016 Date Data Arrived at EDR: 11/23/2016 Date Made Active in Reports: 02/10/2017 Number of Days to Update: 79 Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 12/28/2022 Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/26/2022	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 11/22/2022	Telephone: 301-415-7169
Date Made Active in Reports: 12/05/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 13	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020	Source: Department of Energy
Date Data Arrived at EDR: 11/30/2021	Telephone: 202-586-8719
Date Made Active in Reports: 02/22/2022	Last EDR Contact: 03/03/2023
Number of Days to Update: 84	Next Scheduled EDR Contact: 06/12/2023
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017 Date Data Arrived at EDR: 03/05/2019 Date Made Active in Reports: 11/11/2019 Number of Days to Update: 251 Source: Environmental Protection Agency Telephone: N/A Last EDR Contact: 02/27/2023 Next Scheduled EDR Contact: 06/12/2023 Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 02/03/2023
Number of Days to Update: 96	Next Scheduled EDR Contact: 05/15/2023
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019 Date Data Arrived at EDR: 07/01/2019 Date Made Active in Reports: 09/23/2019 Number of Days to Update: 84 Source: Environmental Protection Agency Telephone: 202-343-9775 Last EDR Contact: 03/23/2023 Next Scheduled EDR Contact: 07/10/2023 Data Release Frequency: Quarterly

### HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007 Number of Days to Update: 40 Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 12/17/2007 Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007 Number of Days to Update: 40 Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 12/17/2008 Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020	Source: Department of Transporation, Office of Pipeline Safety
Date Data Arrived at EDR: 01/28/2020	Telephone: 202-366-4595
Date Made Active in Reports: 04/17/2020	Last EDR Contact: 01/24/2023
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/08/2023
	Data Release Frequency: Quarterly

### CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2022	
Date Data Arrived at EDR: 10/21/2022	
Date Made Active in Reports: 01/10/2023	
Number of Days to Update: 81	

Source: Department of Justice, Consent Decree Library Telephone: Varies Last EDR Contact: 01/03/2023 Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies

## BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2021 Date Data Arrived at EDR: 03/09/2023 Date Made Active in Reports: 03/20/2023 Number of Days to Update: 11 Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 03/09/2023 Next Scheduled EDR Contact: 07/03/2023 Data Release Frequency: Biennially

#### **INDIAN RESERV: Indian Reservations**

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 01/06/2023
Number of Days to Update: 546	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Semi-Annually

#### FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021	
Date Data Arrived at EDR: 07/27/2021	
Date Made Active in Reports: 10/22/2021	
Number of Days to Update: 87	

Source: Department of Energy Telephone: 202-586-3559 Last EDR Contact: 01/30/2023 Next Scheduled EDR Contact: 05/15/2023 Data Release Frequency: Varies

## UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019 Date Data Arrived at EDR: 11/15/2019 Date Made Active in Reports: 01/28/2020 Number of Days to Update: 74 Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 02/13/2023 Next Scheduled EDR Contact: 05/29/2023 Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/25/2023Source:Date Data Arrived at EDR: 02/02/2023TelephoDate Made Active in Reports: 02/28/2023Last EDNumber of Days to Update: 26Next Sci

Source: Environmental Protection Agency Telephone: 703-603-8787 Last EDR Contact: 03/01/2023 Next Scheduled EDR Contact: 04/10/2023 Data Release Frequency: Varies

### LEAD SMELTER 2: Lead Smelter Sites

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

Date of Government Version: 04/05/2001 Date Data Arrived at EDR: 10/27/2010 Date Made Active in Reports: 12/02/2010 Number of Days to Update: 36 Source: American Journal of Public Health Telephone: 703-305-6451 Last EDR Contact: 12/02/2009 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

### US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016 Date Data Arrived at EDR: 10/26/2016 Date Made Active in Reports: 02/03/2017 Number of Days to Update: 100	Source: EPA Telephone: 202-564-2496 Last EDR Contact: 09/26/2017 Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually
US AIRS MINOR: Air Facility System Data A listing of minor source facilities.	
Date of Government Version: 10/12/2016 Date Data Arrived at EDR: 10/26/2016 Date Made Active in Reports: 02/03/2017 Number of Days to Update: 100	Source: EPA Telephone: 202-564-2496 Last EDR Contact: 09/26/2017 Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually
US MINES: Mines Master Index File Contains all mine identification numbers issue violation information.	ed for mines active or opened since 1971. The data also includes
Date of Government Version: 11/07/2022 Date Data Arrived at EDR: 11/17/2022 Date Made Active in Reports: 02/10/2023 Number of Days to Update: 85	Source: Department of Labor, Mine Safety and Health Administration Telephone: 303-231-5959 Last EDR Contact: 02/22/2023 Next Scheduled EDR Contact: 06/05/2023 Data Release Frequency: Semi-Annually
MINES VIOLATIONS: MSHA Violation Assessmen Mines violation and assessment information.	it Data Department of Labor, Mine Safety & Health Administration.
Date of Government Version: 02/27/2023 Date Data Arrived at EDR: 03/01/2023 Date Made Active in Reports: 03/24/2023 Number of Days to Update: 23	Source: DOL, Mine Safety & Health Admi Telephone: 202-693-9424 Last EDR Contact: 02/23/2023 Next Scheduled EDR Contact: 06/12/2023 Data Release Frequency: Quarterly
	I mines are facilities that extract ferrous metals, such as iron ous metal mines are facilities that extract nonferrous metals, such
Date of Government Version: 05/06/2020 Date Data Arrived at EDR: 05/27/2020 Date Made Active in Reports: 08/13/2020 Number of Days to Update: 78	Source: USGS Telephone: 703-648-7709 Last EDR Contact: 02/24/2023 Next Scheduled EDR Contact: 06/05/2023 Data Release Frequency: Varies
US MINES 3: Active Mines & Mineral Plants Datab Active Mines and Mineral Processing Plant op of the USGS.	ase Listing perations for commodities monitored by the Minerals Information Team
Date of Government Version: 04/14/2011 Date Data Arrived at EDR: 06/08/2011 Date Made Active in Reports: 09/13/2011 Number of Days to Update: 97	Source: USGS Telephone: 703-648-7709 Last EDR Contact: 02/24/2023 Next Scheduled EDR Contact: 06/05/2023 Data Release Frequency: Varies
ABANDONED MINES: Abandoned Mines An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.	

Date of Government Version: 12/20/2022 Date Data Arrived at EDR: 12/20/2022 Date Made Active in Reports: 03/10/2023 Number of Days to Update: 80 Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 03/16/2023 Next Scheduled EDR Contact: 06/19/2023 Data Release Frequency: Quarterly

### FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/02/2023	Source: EPA
Date Data Arrived at EDR: 02/28/2023	Telephone: (415) 947-8000
Date Made Active in Reports: 03/24/2023	Last EDR Contact: 02/28/2023
Number of Days to Update: 24	Next Scheduled EDR Contact: 06/12/2023
	Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/21/2021	Telephone: 202-564-0527
Date Made Active in Reports: 08/11/2021	Last EDR Contact: 02/24/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 06/05/2023
	Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/25/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/30/2022	Telephone: 202-564-2280
Date Made Active in Reports: 12/22/2022	Last EDR Contact: 01/04/2023
Number of Days to Update: 83	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 11/09/2021	Source: Department of Defense
Date Data Arrived at EDR: 10/20/2022	Telephone: 703-704-1564
Date Made Active in Reports: 01/10/2023	Last EDR Contact: 01/09/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 04/24/2023
	Data Release Frequency: Varies

## FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/10/2022 Date Data Arrived at EDR: 11/10/2022 Date Made Active in Reports: 02/09/2023 Number of Days to Update: 91 Source: EPA Telephone: 800-385-6164 Last EDR Contact: 02/14/2023 Next Scheduled EDR Contact: 05/29/2023 Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 02/23/2022 Date Data Arrived at EDR: 07/08/2022 Date Made Active in Reports: 11/08/2022 Number of Days to Update: 123 Source: Environmental Protection Agency Telephone: 703-603-8895 Last EDR Contact: 01/10/2023 Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies

### PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 02/23/2022 Date Data Arrived at EDR: 03/31/2022 Date Made Active in Reports: 11/08/2022 Number of Days to Update: 222 Source: Environmental Protection Agency Telephone: 202-272-0167 Last EDR Contact: 01/05/2023 Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies

### PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 01/03/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/31/2022	Telephone: 202-272-0167
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 01/05/2023
Number of Days to Update: 222	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Varies

### PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST\_HANDLING\_INSTR), Non-hazardous waste description (NON\_HAZ\_WASTE\_DESCRIPTION), DOT printed information (DOT\_PRINTED\_INFORMATION), Waste line handling instructions (WASTE\_LINE\_HANDLING\_INSTR), Waste residue comments (WASTE\_RESIDUE\_COMMENTS).

Date of Government Version: 01/03/2022	5
Date Data Arrived at EDR: 03/31/2022	٦
Date Made Active in Reports: 11/08/2022	L
Number of Days to Update: 222	1

Source: Environmental Protection Agency Telephone: 202-272-0167 Last EDR Contact: 01/05/2023 Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies

### PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services Telephone: 202-741-5770 Last EDR Contact: 01/23/2023 Next Scheduled EDR Contact: 05/08/2023 Data Release Frequency: Varies

### PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 01/03/2022 Date Data Arrived at EDR: 03/31/2022 Date Made Active in Reports: 11/08/2022 Number of Days to Update: 222

Source: Environmental Protection Agency Telephone: 202-272-0167 Last EDR Contact: 01/05/2023 Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies

### PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits.

Date of Government Version: 01/03/2022 Date Data Arrived at EDR: 03/31/2022 Date Made Active in Reports: 11/08/2022 Number of Days to Update: 222

Source: Environmental Protection Agency Telephone: 202-272-0167 Last EDR Contact: 01/05/2023 Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies

### PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 01/03/2022 Source: Environmental Protection Agency Date Data Arrived at EDR: 03/31/2022 Telephone: 202-272-0167 Date Made Active in Reports: 11/08/2022 Last EDR Contact: 01/05/2023 Number of Days to Update: 222

## Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies

## PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset, as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 08/22/2018 Date Data Arrived at EDR: 03/31/2022 Date Made Active in Reports: 11/08/2022 Number of Days to Update: 222

Source: Environmental Protection Agency Telephone: 202-272-0167 Last EDR Contact: 01/05/2023 Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies

### PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 08/22/2018 Date Data Arrived at EDR: 10/26/2022 Date Made Active in Reports: 11/08/2022 Number of Days to Update: 13

Source: Environmental Protection Agency Telephone: 202-272-0167 Last EDR Contact: 01/05/2023 Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies

#### AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 02/23/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/31/2022	Telephone: 202-272-0167
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 01/05/2023
Number of Days to Update: 222	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Varies

#### PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 12/02/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/02/2022	Telephone: 866-480-1028
Date Made Active in Reports: 02/23/2023	Last EDR Contact: 03/07/2023
Number of Days to Update: 83	Next Scheduled EDR Contact: 06/19/2023
	Data Release Frequency: Varies

#### AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 09/06/2022 Date Data Arrived at EDR: 09/06/2022 Date Made Active in Reports: 10/26/2022 Number of Days to Update: 50 Source: State Water Resources Control Board Telephone: 916-341-5455 Last EDR Contact: 03/07/2023 Next Scheduled EDR Contact: 06/19/2023 Data Release Frequency: Varies

#### CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

#### CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/14/2022	Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 12/14/2022	Telephone: 916-323-3400
Date Made Active in Reports: 03/07/2023	Last EDR Contact: 03/21/2023
Number of Days to Update: 83	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: Quarterly

#### CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 12/07/2021 Date Data Arrived at EDR: 05/09/2022 Date Made Active in Reports: 05/17/2022 Number of Days to Update: 8 Source: Livermore-Pleasanton Fire Department Telephone: 925-454-2361 Last EDR Contact: 02/10/2023 Next Scheduled EDR Contact: 05/22/2023 Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality A listing of dry cleaners in the Antelope Valley	
Date of Government Version: 11/14/2022 Date Data Arrived at EDR: 11/14/2022 Date Made Active in Reports: 02/01/2023	Source: Antelope Valley Air Quality Management District Telephone: 661-723-8070 Last EDR Contact: 02/23/2023
Number of Days to Update: 79	Next Scheduled EDR Contact: 06/12/2023 Data Release Frequency: Varies
power laundries, family and commercial; garm	EPA ID numbers. These are facilities with certain SIC codes: nent pressing and cleaner's agents; linen supply; coin-operated laundries ; carpet and upholster cleaning; industrial launderers; laundry and
Date of Government Version: 08/27/2021 Date Data Arrived at EDR: 09/01/2021 Date Made Active in Reports: 11/19/2021 Number of Days to Update: 79	Source: Department of Toxic Substance Control Telephone: 916-327-4498 Last EDR Contact: 01/24/2023 Next Scheduled EDR Contact: 06/12/2023 Data Release Frequency: Annually
DRYCLEAN SOUTH COAST: South Coast Air Qua A listing of dry cleaners in the South Coast Air	
Date of Government Version: 11/17/2022 Date Data Arrived at EDR: 11/30/2022 Date Made Active in Reports: 02/14/2023 Number of Days to Update: 76	Source: South Coast Air Quality Management District Telephone: 909-396-3211 Last EDR Contact: 02/15/2023 Next Scheduled EDR Contact: 06/05/2023 Data Release Frequency: Varies
EMI: Emissions Inventory Data Toxics and criteria pollutant emissions data co	ollected by the ARB and local air pollution agencies.
Date of Government Version: 12/31/2020 Date Data Arrived at EDR: 06/13/2022 Date Made Active in Reports: 08/30/2022 Number of Days to Update: 78	Source: California Air Resources Board Telephone: 916-322-2990 Last EDR Contact: 03/16/2023 Next Scheduled EDR Contact: 06/26/2023 Data Release Frequency: Varies
ENF: Enforcement Action Listing A listing of Water Board Enforcement Actions Violation, Expedited Payment Letter, and Staf	. Formal is everything except Oral/Verbal Communication, Notice of ff Enforcement Letter.
Date of Government Version: 10/17/2022 Date Data Arrived at EDR: 10/19/2022 Date Made Active in Reports: 01/10/2023 Number of Days to Update: 83	Source: State Water Resoruces Control Board Telephone: 916-445-9379 Last EDR Contact: 01/18/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies
Financial Assurance 1: Financial Assurance Inform Financial Assurance information	nation Listing
Date of Government Version: 10/12/2022 Date Data Arrived at EDR: 10/12/2022 Date Made Active in Reports: 12/29/2022 Number of Days to Update: 78	Source: Department of Toxic Substances Control Telephone: 916-255-3628 Last EDR Contact: 01/13/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies
Financial Assurance 2: Financial Assurance Inform A listing of financial assurance information for	nation Listing r solid waste facilities. Financial assurance is intended to ensure

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: 11/08/2022 Date Data Arrived at EDR: 11/23/2022 Date Made Active in Reports: 02/13/2023 Number of Days to Update: 82 Source: California Integrated Waste Management Board Telephone: 916-341-6066 Last EDR Contact: 02/03/2023 Next Scheduled EDR Contact: 05/22/2023 Data Release Frequency: Varies

## ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/10/2022	Source: Department of Toxic Subsances Control
Date Data Arrived at EDR: 11/10/2022	Telephone: 877-786-9427
Date Made Active in Reports: 02/01/2023	Last EDR Contact: 02/14/2023
Number of Days to Update: 83	Next Scheduled EDR Contact: 05/29/2023
	Data Release Frequency: Quarterly

#### HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001 Date Data Arrived at EDR: 01/22/2009 Date Made Active in Reports: 04/08/2009 Number of Days to Update: 76 Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 01/22/2009 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

## HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/10/2022	Source
Date Data Arrived at EDR: 11/10/2022	Telepho
Date Made Active in Reports: 02/01/2023	Last ED
Number of Days to Update: 83	Next So

Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 02/14/2023 Next Scheduled EDR Contact: 05/29/2023 Data Release Frequency: Quarterly

#### HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 01/03/2023	Source
Date Data Arrived at EDR: 01/04/2023	Teleph
Date Made Active in Reports: 03/21/2023	Last E
Number of Days to Update: 76	Next S

Source: Department of Toxic Substances Control Telephone: 916-440-7145 Last EDR Contact: 01/04/2023 Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Quarterly

## 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: 12/31/2021SDate Data Arrived at EDR: 07/05/2022TDate Made Active in Reports: 09/19/2022LNumber of Days to Update: 76N

Source: California Environmental Protection Agency Telephone: 916-255-1136 Last EDR Contact: 01/06/2023 Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Annually

#### MINES: Mines Site Location Listing A listing of mine site locations from the Office of Mine Reclamation. Date of Government Version: 12/02/2022 Source: Department of Conservation Date Data Arrived at EDR: 12/02/2022 Telephone: 916-322-1080 Date Made Active in Reports: 02/22/2023 Last EDR Contact: 03/07/2023 Number of Days to Update: 82 Next Scheduled EDR Contact: 06/19/2023 Data Release Frequency: Quarterly MWMP: Medical Waste Management Program Listing The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters. Date of Government Version: 10/31/2022 Source: Department of Public Health Date Data Arrived at EDR: 11/29/2022 Telephone: 916-558-1784 Last EDR Contact: 02/28/2023 Date Made Active in Reports: 02/14/2023 Next Scheduled EDR Contact: 06/12/2023 Number of Days to Update: 77 Data Release Frequency: Varies NPDES: NPDES Permits Listing A listing of NPDES permits, including stormwater. Date of Government Version: 11/03/2022 Source: State Water Resources Control Board Date Data Arrived at EDR: 11/03/2022 Telephone: 916-445-9379 Date Made Active in Reports: 01/25/2023 Last EDR Contact: 02/07/2023 Number of Days to Update: 83 Next Scheduled EDR Contact: 05/22/2023 Data Release Frequency: Quarterly PEST LIC: Pesticide Regulation Licenses Listing A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications. Date of Government Version: 11/28/2022 Source: Department of Pesticide Regulation Date Data Arrived at EDR: 11/29/2022 Telephone: 916-445-4038 Last EDR Contact: 02/28/2023 Date Made Active in Reports: 02/14/2023 Number of Days to Update: 77 Next Scheduled EDR Contact: 06/12/2023 Data Release Frequency: Quarterly PROC: Certified Processors Database A listing of certified processors. Date of Government Version: 12/02/2022 Source: Department of Conservation Date Data Arrived at EDR: 12/02/2022 Telephone: 916-323-3836 Date Made Active in Reports: 02/22/2023 Last EDR Contact: 03/07/2023 Number of Days to Update: 82 Next Scheduled EDR Contact: 06/19/2023 Data Release Frequency: Quarterly NOTIFY 65: Proposition 65 Records Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency. Date of Government Version: 12/07/2022 Source: State Water Resources Control Board Date Data Arrived at EDR: 12/07/2022 Telephone: 916-445-3846 Date Made Active in Reports: 03/01/2023 Last EDR Contact: 03/09/2023 Number of Days to Update: 84 Next Scheduled EDR Contact: 06/26/2023

Data Release Frequency: No Update Planned

# SAN JOSE HAZMAT: Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

	Hazardous material facilities, including underground storage tank sites.			
	Date of Government Version: 11/03/2020 Date Data Arrived at EDR: 11/05/2020 Date Made Active in Reports: 01/26/2021 Number of Days to Update: 82	Source: City of San Jose Fire Department Telephone: 408-535-7694 Last EDR Contact: 01/27/2023 Next Scheduled EDR Contact: 05/15/2023 Data Release Frequency: Annually		
UIC	: UIC Listing A listing of wells identified as underground injec	ction wells, in the California Oil and Gas Wells database.		
	Date of Government Version: 12/02/2022 Date Data Arrived at EDR: 12/02/2022 Date Made Active in Reports: 02/22/2023 Number of Days to Update: 82	Source: Deaprtment of Conservation Telephone: 916-445-2408 Last EDR Contact: 03/07/2023 Next Scheduled EDR Contact: 06/19/2023 Data Release Frequency: Varies		
UIC GEO: Underground Injection Control Sites (GEOTRACKER) Underground control injection sites				
	Date of Government Version: 12/02/2022 Date Data Arrived at EDR: 12/02/2022 Date Made Active in Reports: 02/21/2023 Number of Days to Update: 81	Source: State Water Resource Control Board Telephone: 866-480-1028 Last EDR Contact: 03/07/2023 Next Scheduled EDR Contact: 06/19/2023 Data Release Frequency: Varies		
WAS	pits that are operating without proper permits. I	ive been dumping chemical-laden wastewater into hundreds of unlined nspections completed by the Central Valley Regional Water Quality usly unidentified waste sites. The water boards review found that pal pits are operating without permission.		
	Date of Government Version: 02/11/2021 Date Data Arrived at EDR: 07/01/2021 Date Made Active in Reports: 09/29/2021 Number of Days to Update: 90	Source: RWQCB, Central Valley Region Telephone: 559-445-5577 Last EDR Contact: 01/06/2023 Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies		
WD	S: Waste Discharge System Sites which have been issued waste discharge	requirements.		
	Date of Government Version: 06/19/2007 Date Data Arrived at EDR: 06/20/2007 Date Made Active in Reports: 06/29/2007 Number of Days to Update: 9	Source: State Water Resources Control Board Telephone: 916-341-5227 Last EDR Contact: 02/13/2023 Next Scheduled EDR Contact: 05/29/2023 Data Release Frequency: No Update Planned		

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009	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: 03/16/2023
Number of Days to Update: 13	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER) Military privatized sites

Date of Government Version: 12/02/2022 Date Data Arrived at EDR: 12/02/2022 Date Made Active in Reports: 02/21/2023 Number of Days to Update: 81 Source: State Water Resources Control Board Telephone: 866-480-1028 Last EDR Contact: 03/07/2023 Next Scheduled EDR Contact: 06/19/2023 Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER) Projects sites

> Date of Government Version: 12/02/2022 Date Data Arrived at EDR: 12/02/2022 Date Made Active in Reports: 02/21/2023 Number of Days to Update: 81

Source: State Water Resources Control Board Telephone: 866-480-1028 Last EDR Contact: 03/07/2023 Next Scheduled EDR Contact: 06/19/2023 Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 12/02/2022 Date Data Arrived at EDR: 12/02/2022 Date Made Active in Reports: 02/23/2023 Number of Days to Update: 83 Source: State Water Resources Control Board Telephone: 916-341-5810 Last EDR Contact: 03/07/2023 Next Scheduled EDR Contact: 06/19/2023 Data Release Frequency: Quarterly

## CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 11/28/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/29/2022	Telephone: 866-794-4977
Date Made Active in Reports: 02/13/2023	Last EDR Contact: 02/28/2023
Number of Days to Update: 76	Next Scheduled EDR Contact: 06/12/2023
	Data Release Frequency: Varies

#### CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 01/05/2023 Date Data Arrived at EDR: 01/06/2023 Date Made Active in Reports: 01/10/2023 Number of Days to Update: 4 Source: California Environmental Protection Agency Telephone: 916-323-2514 Last EDR Contact: 01/06/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies

#### NON-CASE INFO: Non-Case Information Sites (GEOTRACKER) Non-Case Information sites

Date of Government Version: 12/02/2022Source: State Water Resources Control BoardDate Data Arrived at EDR: 12/02/2022Telephone: 866-480-1028Date Made Active in Reports: 02/21/2023Last EDR Contact: 03/07/2023Number of Days to Update: 81Next Scheduled EDR Contact: 06/19/2023Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)	
Other Oil & Gas Projects sites	

Date of Government Version: 12/02/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/21/2023
Number of Days to Update: 81

Source: State Water Resources Control Board Telephone: 866-480-1028 Last EDR Contact: 03/07/2023 Next Scheduled EDR Contact: 06/19/2023 Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER) Produced water ponds sites

Date of Government Version: 12/02/2022 Date Data Arrived at EDR: 12/02/2022 Date Made Active in Reports: 02/21/2023 Number of Days to Update: 81

Source: State Water Resources Control Board Telephone: 866-480-1028 Last EDR Contact: 03/07/2023 Next Scheduled EDR Contact: 06/19/2023 Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER) Sampling point - public sites

Date of Government Version: 12/02/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/02/2022	Telephone: 866-480-1028
Date Made Active in Reports: 02/21/2023	Last EDR Contact: 03/07/2023
Number of Days to Update: 81	Next Scheduled EDR Contact: 06/19/2023
	Data Release Frequency: Varies

## WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/02/2022 Date Data Arrived at EDR: 12/02/2022 Date Made Active in Reports: 02/21/2023 Number of Days to Update: 81

Source: State Water Resources Control Board Telephone: 866-480-1028 Last EDR Contact: 03/07/2023 Next Scheduled EDR Contact: 06/19/2023 Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 03/07/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/07/2023	Telephone: 202-566-0250
Date Made Active in Reports: 03/24/2023	Last EDR Contact: 03/07/2023
Number of Days to Update: 17	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System Mineral Resources Data System

> Date of Government Version: 08/23/2022 Date Data Arrived at EDR: 11/22/2022 Date Made Active in Reports: 02/28/2023 Number of Days to Update: 98

ontact: 04/17/2023 : Varies

Source: USGS Telephone: 703-648-6533 Last EDR Contact: 02/24/2023 Next Scheduled EDR Contact: 06/05/2023 Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011	Source: EPA, Office of Water
Date Data Arrived at EDR: 08/05/2011	Telephone: 202-564-2496
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 12/28/2022
Number of Days to Update: 55	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Semi-Annually

PCS ENF: Enforcement data No description is available for this data

> Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 02/05/2015 Date Made Active in Reports: 03/06/2015 Number of Days to Update: 29

Source: EPA Telephone: 202-564-2497 Last EDR Contact: 12/28/2022 Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/05/2022 Date Data Arrived at EDR: 04/05/2022 Date Made Active in Reports: 04/26/2022 Number of Days to Update: 21 Source: Department of Toxic Substances Control Telephone: 916-324-2444 Last EDR Contact: 01/03/2023 Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014 Date Data Arrived at EDR: 01/06/2015 Date Made Active in Reports: 05/06/2015 Number of Days to Update: 120 Source: EPA Telephone: 202-564-2496 Last EDR Contact: 12/28/2022 Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Semi-Annually

#### EDR HIGH RISK HISTORICAL RECORDS

#### EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

## EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

#### EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

## EDR RECOVERED GOVERNMENT ARCHIVES

#### Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 01/13/2014 Number of Days to Update: 196 Source: Department of Resources Recycling and Recovery Telephone: N/A Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

#### RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 12/30/2013 Number of Days to Update: 182 Source: State Water Resources Control Board Telephone: N/A Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

#### COUNTY RECORDS

#### ALAMEDA COUNTY:

#### CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019 Date Data Arrived at EDR: 01/11/2019 Date Made Active in Reports: 03/05/2019 Number of Days to Update: 53 Source: Alameda County Environmental Health Services Telephone: 510-567-6700 Last EDR Contact: 12/28/2022 Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Semi-Annually

## UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 12/28/2022 Date Data Arrived at EDR: 12/28/2022 Date Made Active in Reports: 03/17/2023 Number of Days to Update: 79 Source: Alameda County Environmental Health Services Telephone: 510-567-6700 Last EDR Contact: 12/28/2022 Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Semi-Annually

#### AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List Cupa Facility List

> Date of Government Version: 07/22/2022 Date Data Arrived at EDR: 07/27/2022 Date Made Active in Reports: 08/01/2022 Number of Days to Update: 5

Source: Amador County Environmental Health Telephone: 209-223-6439 Last EDR Contact: 01/27/2023 Next Scheduled EDR Contact: 05/15/2023 Data Release Frequency: Varies

Source: Public Health Department

Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: No Update Planned

Telephone: 530-538-7149

Last EDR Contact: 12/28/2022

## BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing Cupa facility list.

> Date of Government Version: 04/21/2017 Date Data Arrived at EDR: 04/25/2017 Date Made Active in Reports: 08/09/2017 Number of Days to Update: 106

#### CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing Cupa Facility Listing

> Date of Government Version: 12/13/2022 Date Data Arrived at EDR: 12/15/2022 Date Made Active in Reports: 12/21/2022 Number of Days to Update: 6

Source: Calveras County Environmental Health Telephone: 209-754-6399 Last EDR Contact: 03/16/2023 Next Scheduled EDR Contact: 07/03/2023 Data Release Frequency: Quarterly

#### COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List Cupa facility list.

> Date of Government Version: 04/06/2020 Date Data Arrived at EDR: 04/23/2020 Date Made Active in Reports: 07/10/2020 Number of Days to Update: 78

Source: Health & Human Services Telephone: 530-458-0396 Last EDR Contact: 01/17/2023 Next Scheduled EDR Contact: 05/15/2023 Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

#### SL CONTRA COSTA: Site List

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

Date of Government Version: 10/20/2022 Date Data Arrived at EDR: 10/21/2022 Date Made Active in Reports: 01/10/2023 Number of Days to Update: 81 Source: Contra Costa Health Services Department Telephone: 925-646-2286 Last EDR Contact: 01/20/2023 Next Scheduled EDR Contact: 05/08/2023 Data Release Frequency: Semi-Annually

#### DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List Cupa Facility list

> Date of Government Version: 05/04/2022 Date Data Arrived at EDR: 05/06/2022 Date Made Active in Reports: 07/28/2022 Number of Days to Update: 83

Source: Del Norte County Environmental Health Division Telephone: 707-465-0426 Last EDR Contact: 02/03/2023 Next Scheduled EDR Contact: 05/08/2023 Data Release Frequency: Varies

## EL DORADO COUNTY:

#### CUPA EL DORADO: CUPA Facility List CUPA facility list.

Date of Government Version: 08/08/2022 Date Data Arrived at EDR: 08/09/2022 Date Made Active in Reports: 09/01/2022 Number of Days to Update: 23 Source: El Dorado County Environmental Management Department Telephone: 530-621-6623 Last EDR Contact: 01/20/2023 Next Scheduled EDR Contact: 05/08/2023 Data Release Frequency: Varies

#### FRESNO COUNTY:

#### CUPA FRESNO: CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021 Date Data Arrived at EDR: 12/21/2021 Date Made Active in Reports: 03/03/2022 Number of Days to Update: 72 Source: Dept. of Community Health Telephone: 559-445-3271 Last EDR Contact: 12/29/2022 Next Scheduled EDR Contact: 04/10/2023 Data Release Frequency: Semi-Annually

### GLENN COUNTY:

#### CUPA GLENN: CUPA Facility List Cupa facility list

Date of Government Version: 01/22/2018 Date Data Arrived at EDR: 01/24/2018 Date Made Active in Reports: 03/14/2018 Number of Days to Update: 49 Source: Glenn County Air Pollution Control District Telephone: 830-934-6500 Last EDR Contact: 01/13/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: No Update Planned

#### HUMBOLDT COUNTY:

#### CUPA HUMBOLDT: CUPA Facility List CUPA facility list.

Date of Government Version: 08/12/2021 Date Data Arrived at EDR: 08/12/2021 Date Made Active in Reports: 11/08/2021 Number of Days to Update: 88 Source: Humboldt County Environmental Health Telephone: N/A Last EDR Contact: 02/09/2023 Next Scheduled EDR Contact: 05/29/2023 Data Release Frequency: Semi-Annually

#### IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List Cupa facility list.

> Date of Government Version: 10/11/2022 Date Data Arrived at EDR: 10/12/2022 Date Made Active in Reports: 12/29/2022 Number of Days to Update: 78

Source: San Diego Border Field Office Telephone: 760-339-2777 Last EDR Contact: 01/13/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies

## INYO COUNTY:

CUPA INYO: CUPA Facility List Cupa facility list.

> Date of Government Version: 04/02/2018 Date Data Arrived at EDR: 04/03/2018 Date Made Active in Reports: 06/14/2018 Number of Days to Update: 72

Source: Inyo County Environmental Health Services Telephone: 760-878-0238 Last EDR Contact: 02/09/2023 Next Scheduled EDR Contact: 05/29/2023 Data Release Frequency: Varies

#### KERN COUNTY:

CUPA KERN: CUPA Facility List

A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 10/03/2022 Date Data Arrived at EDR: 10/05/2022 Date Made Active in Reports: 12/16/2022 Number of Days to Update: 72 Source: Kern County Public Health Telephone: 661-321-3000 Last EDR Contact: 01/27/2023 Next Scheduled EDR Contact: 05/15/2023 Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 10/03/2022 Date Data Arrived at EDR: 10/05/2022 Date Made Active in Reports: 12/16/2022 Number of Days to Update: 72 Source: Kern County Environment Health Services Department Telephone: 661-862-8700 Last EDR Contact: 01/27/2023 Next Scheduled EDR Contact: 05/15/2023 Data Release Frequency: Quarterly

## KINGS COUNTY:

#### CUPA KINGS: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020 Date Data Arrived at EDR: 01/26/2021 Date Made Active in Reports: 04/14/2021 Number of Days to Update: 78 Source: Kings County Department of Public Health Telephone: 559-584-1411 Last EDR Contact: 02/09/2023 Next Scheduled EDR Contact: 05/29/2023 Data Release Frequency: Varies

## LAKE COUNTY:

CUPA LAKE: CUPA Facility List Cupa facility list

> Date of Government Version: 11/04/2022 Date Data Arrived at EDR: 11/07/2022 Date Made Active in Reports: 01/25/2023 Number of Days to Update: 79

Source: Lake County Environmental Health Telephone: 707-263-1164 Last EDR Contact: 03/10/2023 Next Scheduled EDR Contact: 04/24/2023 Data Release Frequency: Varies

#### LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List Cupa facility list

> Date of Government Version: 07/31/2020 Date Data Arrived at EDR: 08/21/2020 Date Made Active in Reports: 11/09/2020 Number of Days to Update: 80

Source: Lassen County Environmental Health Telephone: 530-251-8528 Last EDR Contact: 01/13/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies

## LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009 Date Data Arrived at EDR: 03/31/2009 Date Made Active in Reports: 10/23/2009 Number of Days to Update: 206 Source: N/A Telephone: N/A Last EDR Contact: 03/09/2023 Next Scheduled EDR Contact: 06/26/2023 Data Release Frequency: No Update Planned

Source: Department of Public Works

Telephone: 626-458-3517 Last EDR Contact: 12/28/2022

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

Date of Government Version: 10/03/2022 Date Data Arrived at EDR: 10/04/2022 Date Made Active in Reports: 12/15/2022 Number of Days to Update: 72

Jpdate: 72 Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities Solid Waste Facilities in Los Angeles County.

> Date of Government Version: 01/09/2023 Date Data Arrived at EDR: 01/10/2023 Date Made Active in Reports: 03/23/2023 Number of Days to Update: 72

Source: La County Department of Public Works Telephone: 818-458-5185 Last EDR Contact: 01/10/2023 Next Scheduled EDR Contact: 04/24/2023 Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Land Landfills owned and maintained by the City of	
Date of Government Version: 01/01/2022 Date Data Arrived at EDR: 01/21/2022 Date Made Active in Reports: 04/11/2022 Number of Days to Update: 80	Source: Engineering & Construction Division Telephone: 213-473-7869 Last EDR Contact: 01/05/2023 Next Scheduled EDR Contact: 04/24/2023 Data Release Frequency: Varies
LOS ANGELES AST: Active & Inactive AST Inventor A listing of active & inactive above ground peter Angeles.	ory roleum storage tank site locations, located in the City of Los
Date of Government Version: 06/01/2019 Date Data Arrived at EDR: 06/25/2019 Date Made Active in Reports: 08/22/2019 Number of Days to Update: 58	Source: Los Angeles Fire Department Telephone: 213-978-3800 Last EDR Contact: 03/16/2023 Next Scheduled EDR Contact: 07/03/2023 Data Release Frequency: Varies
and emanate methane gas. The shapefile con refuse material. Information used to create this	bresent known disposal sites in Los Angeles County that may produce tains disposal sites within Los Angeles County that once accepted degradable s data was extracted from a landfill survey performed by County as well as historical records from CalRecycle, Regional Water Quality
Date of Government Version: 01/10/2022 Date Data Arrived at EDR: 01/12/2022 Date Made Active in Reports: 04/04/2022 Number of Days to Update: 82	Source: Los Angeles County Department of Public Works Telephone: 626-458-6973 Last EDR Contact: 01/05/2023 Next Scheduled EDR Contact: 04/24/2023 Data Release Frequency: No Update Planned
LOS ANGELES HM: Active & Inactive Hazardous M A listing of active & inactive hazardous materia	Naterials Inventory als facility locations, located in the City of Los Angeles.
Date of Government Version: 11/01/2022 Date Data Arrived at EDR: 12/14/2022 Date Made Active in Reports: 03/07/2023 Number of Days to Update: 83	Source: Los Angeles Fire Department Telephone: 213-978-3800 Last EDR Contact: 03/24/2023 Next Scheduled EDR Contact: 07/03/2023 Data Release Frequency: Varies
LOS ANGELES UST: Active & Inactive UST Invent A listing of active & inactive underground stora sites, located in the City of Los Angeles.	ory age tank site locations and underground storage tank historical
Date of Government Version: 11/01/2022 Date Data Arrived at EDR: 12/14/2022 Date Made Active in Reports: 03/07/2023 Number of Days to Update: 83	Source: Los Angeles Fire Department Telephone: 213-978-3800 Last EDR Contact: 03/24/2023 Next Scheduled EDR Contact: 07/03/2023 Data Release Frequency: Varies
SITE MIT LOS ANGELES: Site Mitigation List Industrial sites that have had some sort of spil	l or complaint.
Date of Government Version: 05/26/2021 Date Data Arrived at EDR: 07/09/2021 Date Made Active in Reports: 09/29/2021 Number of Days to Update: 82	Source: Community Health Services Telephone: 323-890-7806 Last EDR Contact: 01/20/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Erequency: Annually

Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017 Date Data Arrived at EDR: 04/19/2017 Date Made Active in Reports: 05/10/2017 Number of Days to Update: 21 Source: City of El Segundo Fire Department Telephone: 310-524-2236 Last EDR Contact: 01/05/2023 Next Scheduled EDR Contact: 04/24/2023 Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019	Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 04/23/2019	Telephone: 562-570-2563
Date Made Active in Reports: 06/27/2019	Last EDR Contact: 01/20/2023
Number of Days to Update: 65	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

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

Date of Government Version: 10/18/2022	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 10/19/2022	Telephone: 310-618-2973
Date Made Active in Reports: 01/10/2023	Last EDR Contact: 01/13/2023
Number of Days to Update: 83	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Semi-Annually

#### MADERA COUNTY:

#### CUPA MADERA: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020 Date Data Arrived at EDR: 08/12/2020 Date Made Active in Reports: 10/23/2020 Number of Days to Update: 72 Source: Madera County Environmental Health Telephone: 559-675-7823 Last EDR Contact: 02/09/2023 Next Scheduled EDR Contact: 05/29/2023 Data Release Frequency: Varies

#### MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites Currently permitted USTs in Marin County.

> Date of Government Version: 09/26/2018 Date Data Arrived at EDR: 10/04/2018 Date Made Active in Reports: 11/02/2018 Number of Days to Update: 29

Source: Public Works Department Waste Management Telephone: 415-473-6647 Last EDR Contact: 03/22/2023 Next Scheduled EDR Contact: 07/10/2023 Data Release Frequency: Semi-Annually

#### MENDOCINO COUNTY:

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

Date of Government Version: 09/22/2021 Date Data Arrived at EDR: 11/18/2021 Date Made Active in Reports: 11/22/2021 Number of Days to Update: 4 Source: Department of Public Health Telephone: 707-463-4466 Last EDR Contact: 02/15/2023 Next Scheduled EDR Contact: 06/05/2023 Data Release Frequency: Annually

## MERCED COUNTY:

CUPA MERCED: CUPA Facility List CUPA facility list.

> Date of Government Version: 02/15/2022 Date Data Arrived at EDR: 02/17/2022 Date Made Active in Reports: 05/11/2022 Number of Days to Update: 83

Source: Merced County Environmental Health Telephone: 209-381-1094 Last EDR Contact: 01/31/2023 Next Scheduled EDR Contact: 05/29/2023 Data Release Frequency: Varies

## MONO COUNTY:

CUPA MONO: CUPA Facility List CUPA Facility List

> Date of Government Version: 02/22/2021 Date Data Arrived at EDR: 03/02/2021 Date Made Active in Reports: 05/19/2021 Number of Days to Update: 78

Source: Mono County Health Department Telephone: 760-932-5580 Last EDR Contact: 02/15/2023 Next Scheduled EDR Contact: 06/05/2023 Data Release Frequency: Varies

#### MONTEREY COUNTY:

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

Date of Government Version: 10/04/2021 Date Data Arrived at EDR: 10/06/2021 Date Made Active in Reports: 12/29/2021 Number of Days to Update: 84 Source: Monterey County Health Department Telephone: 831-796-1297 Last EDR Contact: 03/22/2023 Next Scheduled EDR Contact: 07/10/2023 Data Release Frequency: Varies

#### NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination

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

Date of Government Version: 01/09/2017	Source: Napa County Department of Environmental Management
Date Data Arrived at EDR: 01/11/2017	Telephone: 707-253-4269
Date Made Active in Reports: 03/02/2017	Last EDR Contact: 02/15/2023
Number of Days to Update: 50	Next Scheduled EDR Contact: 06/05/2023
	Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019	Source: Napa County Department of Environmental Management
Date Data Arrived at EDR: 09/09/2019	Telephone: 707-253-4269
Date Made Active in Reports: 10/31/2019	Last EDR Contact: 02/15/2023
Number of Days to Update: 52	Next Scheduled EDR Contact: 06/05/2023
	Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List CUPA facility list.	
Date of Government Version: 10/27/2022 Date Data Arrived at EDR: 10/27/2022 Date Made Active in Reports: 01/18/2023 Number of Days to Update: 83	Source: Community Development Agency Telephone: 530-265-1467 Last EDR Contact: 01/20/2023 Next Scheduled EDR Contact: 05/08/2023 Data Release Frequency: Varies
ORANGE COUNTY:	
IND_SITE ORANGE: List of Industrial Site Cleanup Petroleum and non-petroleum spills.	S
Date of Government Version: 05/24/2022 Date Data Arrived at EDR: 08/09/2022 Date Made Active in Reports: 10/28/2022 Number of Days to Update: 80	Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 01/31/2023 Next Scheduled EDR Contact: 05/15/2023 Data Release Frequency: Annually
LUST ORANGE: List of Underground Storage Tank Orange County Underground Storage Tank Cle	
Date of Government Version: 04/08/2022 Date Data Arrived at EDR: 05/18/2022 Date Made Active in Reports: 08/03/2022 Number of Days to Update: 77	Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 01/31/2023 Next Scheduled EDR Contact: 05/15/2023 Data Release Frequency: Quarterly
UST ORANGE: List of Underground Storage Tank F Orange County Underground Storage Tank Fa	
Date of Government Version: 05/24/2022 Date Data Arrived at EDR: 08/01/2022 Date Made Active in Reports: 10/20/2022 Number of Days to Update: 80	Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 01/31/2023 Next Scheduled EDR Contact: 05/15/2023 Data Release Frequency: Quarterly
PLACER COUNTY:	
MS PLACER: Master List of Facilities List includes aboveground tanks, underground	tanks and cleanup sites.
Date of Government Version: 08/26/2022 Date Data Arrived at EDR: 08/29/2022 Date Made Active in Reports: 11/15/2022 Number of Days to Update: 78	Source: Placer County Health and Human Services Telephone: 530-745-2363 Last EDR Contact: 02/13/2023 Next Scheduled EDR Contact: 06/12/2023 Data Release Frequency: Semi-Annually
PLUMAS COUNTY:	
CUPA PLUMAS: CUPA Facility List Plumas County CUPA Program facilities.	
Date of Government Version: 03/31/2019 Date Data Arrived at EDR: 04/23/2019 Date Made Active in Reports: 06/26/2019 Number of Days to Update: 64	Source: Plumas County Environmental Health Telephone: 530-283-6355 Last EDR Contact: 01/13/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites Riverside County Underground Storage Tank Cleanup Sites (LUST).		
	Date of Government Version: 09/22/2022 Date Data Arrived at EDR: 09/26/2022 Date Made Active in Reports: 12/09/2022 Number of Days to Update: 74	Source: Department of Environmental Health Telephone: 951-358-5055 Last EDR Contact: 03/09/2023 Next Scheduled EDR Contact: 06/26/2023 Data Release Frequency: Quarterly
	UST RIVERSIDE: Underground Storage Tank Tanl Underground storage tank sites located in Riv	
	Date of Government Version: 09/22/2022 Date Data Arrived at EDR: 09/26/2022 Date Made Active in Reports: 12/09/2022 Number of Days to Update: 74	Source: Department of Environmental Health Telephone: 951-358-5055 Last EDR Contact: 03/09/2023 Next Scheduled EDR Contact: 06/26/2023 Data Release Frequency: Quarterly
	SACRAMENTO COUNTY:	
CS SACRAMENTO: Toxic Site Clean-Up List List of sites where unauthorized releases of potentially hazardous materials have occurred.		
	Date of Government Version: 11/07/2022 Date Data Arrived at EDR: 12/21/2022 Date Made Active in Reports: 03/16/2023 Number of Days to Update: 85	Source: Sacramento County Environmental Management Telephone: 916-875-8406 Last EDR Contact: 12/21/2022 Next Scheduled EDR Contact: 04/10/2023 Data Release Frequency: Quarterly
ML SACRAMENTO: Master Hazardous Materials Facility List Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.		
	Date of Government Version: 11/07/2022 Date Data Arrived at EDR: 12/09/2022 Date Made Active in Reports: 03/01/2023 Number of Days to Update: 82	Source: Sacramento County Environmental Management Telephone: 916-875-8406 Last EDR Contact: 12/09/2022 Next Scheduled EDR Contact: 04/10/2023 Data Release Frequency: Quarterly
	SAN BENITO COUNTY:	
	CUPA SAN BENITO: CUPA Facility List Cupa facility list	
	Date of Government Version: 10/27/2022 Date Data Arrived at EDR: 10/28/2022	Source: San Benito County Environmental Health Telephone: N/A

Date Of Government Version: 10/27/2022 Date Data Arrived at EDR: 10/28/2022 Date Made Active in Reports: 01/18/2023 Number of Days to Update: 82 Source: San Benito County Environmental Healt Telephone: N/A Last EDR Contact: 01/27/2023 Next Scheduled EDR Contact: 05/15/2023 Data Release Frequency: Varies

## SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 11/18/2022 Date Data Arrived at EDR: 11/21/2022 Date Made Active in Reports: 02/09/2023 Number of Days to Update: 80 Source: San Bernardino County Fire Department Hazardous Materials Division Telephone: 909-387-3041 Last EDR Contact: 01/30/2023 Next Scheduled EDR Contact: 05/15/2023 Data Release Frequency: Quarterly

## SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 11/28/2022	Source: Hazardous Materials Management Division
Date Data Arrived at EDR: 11/29/2022	Telephone: 619-338-2268
Date Made Active in Reports: 02/14/2023	Last EDR Contact: 02/28/2023
Number of Days to Update: 77	Next Scheduled EDR Contact: 06/12/2023
	Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities San Diego County Solid Waste Facilities.

> Date of Government Version: 10/27/2021 Date Data Arrived at EDR: 03/04/2022 Date Made Active in Reports: 05/31/2022 Number of Days to Update: 88

Source: Department of Health Services Telephone: 619-338-2209 Last EDR Contact: 01/13/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies

#### SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021 Date Data Arrived at EDR: 10/19/2021 Date Made Active in Reports: 01/13/2022 Number of Days to Update: 86 Source: Department of Environmental Health Telephone: 858-505-6874 Last EDR Contact: 01/13/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies

#### SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010 Date Data Arrived at EDR: 06/15/2010 Date Made Active in Reports: 07/09/2010 Number of Days to Update: 24 Source: San Diego County Department of Environmental Health Telephone: 619-338-2371 Last EDR Contact: 02/23/2023 Next Scheduled EDR Contact: 06/12/2023 Data Release Frequency: No Update Planned

#### SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing Cupa facilities

Date of Government Version: 11/03/2022
Date Data Arrived at EDR: 11/07/2022
Date Made Active in Reports: 01/25/2023
Number of Days to Update: 79

Source: San Francisco County Department of Environmental Health Telephone: 415-252-3896 Last EDR Contact: 01/27/2023 Next Scheduled EDR Contact: 05/15/2023 Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities

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

Date of Government Version: 09/19/2008	Source: Department Of Public Health San Francisco County
Date Data Arrived at EDR: 09/19/2008	Telephone: 415-252-3920
Date Made Active in Reports: 09/29/2008	Last EDR Contact: 01/27/2023
Number of Days to Update: 10	Next Scheduled EDR Contact: 05/15/2023
	Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/03/2022Source: Department of Public HealthDate Data Arrived at EDR: 11/07/2022Telephone: 415-252-3920Date Made Active in Reports: 01/24/2023Last EDR Contact: 01/27/2023Number of Days to Update: 78Next Scheduled EDR Contact: 05/15/2023Data Release Frequency: Quarterly

#### SAN FRANCISO COUNTY:

#### SAN FRANCISCO MAHER: Maher Ordinance Property Listing a listing of properties that fall within a Maher Ordinance, for all of San Francisco

Date of Government Version: 10/11/2022 Date Data Arrived at EDR: 10/14/2022 Date Made Active in Reports: 01/04/2023 Number of Days to Update: 82

Source: San Francisco Planning Telephone: 628-652-7483 Last EDR Contact: 01/13/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies

## SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST

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

Date of Government Version: 06/22/2018 Date Data Arrived at EDR: 06/26/2018 Date Made Active in Reports: 07/11/2018 Number of Days to Update: 15 Source: Environmental Health Department Telephone: N/A Last EDR Contact: 03/09/2023 Next Scheduled EDR Contact: 06/26/2023 Data Release Frequency: Semi-Annually

#### SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List Cupa Facility List.

> Date of Government Version: 11/08/2022 Date Data Arrived at EDR: 11/09/2022 Date Made Active in Reports: 02/01/2023 Number of Days to Update: 84

Source: San Luis Obispo County Public Health Department Telephone: 805-781-5596 Last EDR Contact: 02/09/2023 Next Scheduled EDR Contact: 05/29/2023 Data Release Frequency: Varies

#### SAN MATEO COUNTY:

#### BI SAN MATEO: Business Inventory

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

Date of Government Version: 02/20/2020 Date Data Arrived at EDR: 02/20/2020 Date Made Active in Reports: 04/24/2020 Number of Days to Update: 64 Source: San Mateo County Environmental Health Services Division Telephone: 650-363-1921 Last EDR Contact: 03/10/2023 Next Scheduled EDR Contact: 06/19/2023 Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List

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

Date of Government Version: 03/29/2019	Source: San Mateo County Environmental Health Services Division
Date Data Arrived at EDR: 03/29/2019	Telephone: 650-363-1921
Date Made Active in Reports: 05/29/2019	Last EDR Contact: 03/02/2023
Number of Days to Update: 61	Next Scheduled EDR Contact: 06/19/2023
	Data Release Frequency: Semi-Annually

#### SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011	Source: Santa Barbara County Public Health Department
Date Data Arrived at EDR: 09/09/2011	Telephone: 805-686-8167
Date Made Active in Reports: 10/07/2011	Last EDR Contact: 02/09/2023
Number of Days to Update: 28	Next Scheduled EDR Contact: 05/29/2023
	Data Release Frequency: No Update Planned

#### SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List Cupa facility list

Date of Government Version: 10/28/2022	2 Source: Department of Environmental Health
Date Data Arrived at EDR: 11/01/2022	Telephone: 408-918-1973
Date Made Active in Reports: 01/20/2023	3 Last EDR Contact: 02/09/2023
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/29/2023
	Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005 Date Data Arrived at EDR: 03/30/2005 Date Made Active in Reports: 04/21/2005 Number of Days to Update: 22 Source: Santa Clara Valley Water District Telephone: 408-265-2600 Last EDR Contact: 03/23/2009 Next Scheduled EDR Contact: 06/22/2009 Data Release Frequency: No Update Planned

## LUST SANTA CLARA: LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014 Date Data Arrived at EDR: 03/05/2014 Date Made Active in Reports: 03/18/2014 Number of Days to Update: 13 Source: Department of Environmental Health Telephone: 408-918-3417 Last EDR Contact: 02/15/2023 Next Scheduled EDR Contact: 06/05/2023 Data Release Frequency: No Update Planned

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List CUPA facility listing.

Date of Government Version: 01/21/2017 Date Data Arrived at EDR: 02/22/2017 Date Made Active in Reports: 05/23/2017 Number of Days to Update: 90 Source: Santa Cruz County Environmental Health Telephone: 831-464-2761 Last EDR Contact: 02/09/2023 Next Scheduled EDR Contact: 05/29/2023 Data Release Frequency: Varies

#### SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List Cupa Facility List.

> Date of Government Version: 06/15/2017 Date Data Arrived at EDR: 06/19/2017 Date Made Active in Reports: 08/09/2017 Number of Days to Update: 51

Source: Shasta County Department of Resource Management Telephone: 530-225-5789 Last EDR Contact: 02/09/2023 Next Scheduled EDR Contact: 05/29/2023 Data Release Frequency: Varies

## SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks

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

Date of Government Version: 06/04/2019 Date Data Arrived at EDR: 06/06/2019 Date Made Active in Reports: 08/13/2019 Number of Days to Update: 68 Source: Solano County Department of Environmental Management Telephone: 707-784-6770 Last EDR Contact: 02/23/2023 Next Scheduled EDR Contact: 06/12/2023 Data Release Frequency: Quarterly

#### UST SOLANO: Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021	Source: Solano County Department of Environmental Management
Date Data Arrived at EDR: 09/16/2021	Telephone: 707-784-6770
Date Made Active in Reports: 12/09/2021	Last EDR Contact: 02/23/2023
Number of Days to Update: 84	Next Scheduled EDR Contact: 06/12/2023
	Data Release Frequency: Quarterly

#### SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List Cupa Facility list

> Date of Government Version: 07/02/2021 Date Data Arrived at EDR: 07/06/2021 Date Made Active in Reports: 07/14/2021 Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department Telephone: 707-565-1174 Last EDR Contact: 06/28/2021 Next Scheduled EDR Contact: 07/03/2023 Data Release Frequency: Varies

## LUST SONOMA: Leaking Underground Storage Tank Sites

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

Date of Government Version: 06/30/2021 Date Data Arrived at EDR: 06/30/2021 Date Made Active in Reports: 09/24/2021 Number of Days to Update: 86 Source: Department of Health Services Telephone: 707-565-6565 Last EDR Contact: 03/16/2023 Next Scheduled EDR Contact: 07/03/2023 Data Release Frequency: Quarterly

STANISLAUS COUNTY:

## CUPA STANISLAUS: CUPA Facility List Cupa facility list

Date of Government Version: 02/08/2022 Date Data Arrived at EDR: 02/10/2022 Date Made Active in Reports: 05/04/2022 Number of Days to Update: 83 Source: Stanislaus County Department of Ennvironmental Protection Telephone: 209-525-6751 Last EDR Contact: 01/09/2023 Next Scheduled EDR Contact: 04/24/2023 Data Release Frequency: Varies

#### SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks Underground storage tank sites located in Sutter county.

Date of Government Version: 08/03/2022 Date Data Arrived at EDR: 08/25/2022 Date Made Active in Reports: 11/14/2022 Number of Days to Update: 81

Source: Sutter County Environmental Health Services Telephone: 530-822-7500 Last EDR Contact: 02/23/2023 Next Scheduled EDR Contact: 06/12/2023 Data Release Frequency: Semi-Annually

## TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List Cupa facilities

> Date of Government Version: 11/17/2022 Date Data Arrived at EDR: 11/21/2022 Date Made Active in Reports: 02/10/2023 Number of Days to Update: 81

Source: Tehama County Department of Environmental Health Telephone: 530-527-8020 Last EDR Contact: 01/27/2023 Next Scheduled EDR Contact: 05/15/2023 Data Release Frequency: Varies

#### TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List Cupa facility list

> Date of Government Version: 10/11/2022 Date Data Arrived at EDR: 10/12/2022 Date Made Active in Reports: 12/29/2022 Number of Days to Update: 78

Source: Department of Toxic Substances Control Telephone: 760-352-0381 Last EDR Contact: 01/13/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies

#### TULARE COUNTY:

CUPA TULARE: CUPA Facility List Cupa program facilities

> Date of Government Version: 10/07/2022 Date Data Arrived at EDR: 10/07/2022 Date Made Active in Reports: 12/21/2022 Number of Days to Update: 75

Source: Tulare County Environmental Health Services Division Telephone: 559-624-7400 Last EDR Contact: 01/27/2023 Next Scheduled EDR Contact: 05/15/2023 Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List Cupa facility list	
Date of Government Version: 04/23/2018 Date Data Arrived at EDR: 04/25/2018 Date Made Active in Reports: 06/25/2018 Number of Days to Update: 61	Source: Divison of Environmental Health Telephone: 209-533-5633 Last EDR Contact: 01/13/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies
VENTURA COUNTY:	
BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.	
Date of Government Version: 09/26/2022 Date Data Arrived at EDR: 10/19/2022 Date Made Active in Reports: 01/10/2023 Number of Days to Update: 83	Source: Ventura County Environmental Health Division Telephone: 805-654-2813 Last EDR Contact: 01/17/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Quarterly
LF VENTURA: Inventory of Illegal Abandoned and I Ventura County Inventory of Closed, Illegal Ab	
Date of Government Version: 12/01/2011 Date Data Arrived at EDR: 12/01/2011 Date Made Active in Reports: 01/19/2012 Number of Days to Update: 49	Source: Environmental Health Division Telephone: 805-654-2813 Last EDR Contact: 03/22/2023 Next Scheduled EDR Contact: 07/10/2023 Data Release Frequency: No Update Planned
LUST VENTURA: Listing of Underground Tank Clea Ventura County Underground Storage Tank Cl	
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: 02/02/2023 Next Scheduled EDR Contact: 05/22/2023 Data Release Frequency: No Update Planned
MED WASTE VENTURA: Medical Waste Program List To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.	
Date of Government Version: 09/26/2022 Date Data Arrived at EDR: 10/20/2022 Date Made Active in Reports: 01/10/2023 Number of Days to Update: 82	Source: Ventura County Resource Management Agency Telephone: 805-654-2813 Last EDR Contact: 01/17/2023 Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Quarterly
UST VENTURA: Underground Tank Closed Sites List Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.	
Date of Government Version: 11/28/2022 Date Data Arrived at EDR: 12/02/2022 Date Made Active in Reports: 02/23/2023 Number of Days to Update: 83	Source: Environmental Health Division Telephone: 805-654-2813 Last EDR Contact: 03/07/2023 Next Scheduled EDR Contact: 06/19/2023 Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report Underground storage tank sites located in Yolo county.

Date of Government Version: 12/19/2022 Date Data Arrived at EDR: 12/27/2022 Date Made Active in Reports: 03/17/2023 Number of Days to Update: 80 Source: Yolo County Department of Health Telephone: 530-666-8646 Last EDR Contact: 03/22/2023 Next Scheduled EDR Contact: 07/10/2023 Data Release Frequency: Annually

#### YUBA COUNTY:

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

> Date of Government Version: 10/25/2022 Date Data Arrived at EDR: 10/26/2022 Date Made Active in Reports: 10/31/2022 Number of Days to Update: 5

Source: Yuba County Environmental Health Department Telephone: 530-749-7523 Last EDR Contact: 01/20/2023 Next Scheduled EDR Contact: 05/08/2023 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: 11/16/2022 Date Data Arrived at EDR: 11/16/2022 Date Made Active in Reports: 02/06/2023 Number of Days to Update: 82	Source: Department of Energy & Environmental Protection Telephone: 860-424-3375 Last EDR Contact: 02/10/2023 Next Scheduled EDR Contact: 05/22/2023 Data Release Frequency: No Update Planned
NJ MANIFEST: Manifest Information Hazardous waste manifest information.	
Date of Government Version: 12/31/2018 Date Data Arrived at EDR: 04/10/2019	Source: Department of Environmental Protection Telephone: N/A

Date Data Arrived at EDR: 04/10/2019 Date Made Active in Reports: 05/16/2019 Number of Days to Update: 36

Last EDR Contact: 12/28/2022 Next Scheduled EDR Contact: 04/17/2023 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: 01/01/2019	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 10/29/2021	Telephone: 518-402-8651
Date Made Active in Reports: 01/19/2022	Last EDR Contact: 01/27/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 05/08/2023
	Data Release Frequency: Quarterly

#### PA MANIFEST: Manifest Information Hazardous waste manifest information.

Date of Government Version: 06/30/2018 Date Data Arrived at EDR: 07/19/2019 Date Made Active in Reports: 09/10/2019 Number of Days to Update: 53

#### RI MANIFEST: Manifest information Hazardous waste manifest information

Date of Government Version: 12/31/2020 Date Data Arrived at EDR: 11/30/2021 Date Made Active in Reports: 02/18/2022 Number of Days to Update: 80 Source: Department of Environmental Protection Telephone: 717-783-8990 Last EDR Contact: 01/06/2023 Next Scheduled EDR Contact: 04/24/2023 Data Release Frequency: Annually

Source: Department of Environmental Management Telephone: 401-222-2797 Last EDR Contact: 02/13/2022 Next Scheduled EDR Contact: 05/29/2023 Data Release Frequency: Annually

# WI MANIFEST: Manifest Information Hazardous waste manifest information.

Date of Government Version: 05/31/2018 Date Data Arrived at EDR: 06/19/2019 Date Made Active in Reports: 09/03/2019 Number of Days to Update: 76 Source: Department of Natural Resources Telephone: N/A Last EDR Contact: 03/06/2023 Next Scheduled EDR Contact: 06/19/2023 Data Release Frequency: Annually

#### **Oil/Gas Pipelines**

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

#### AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals. Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

**Nursing Homes** 

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

**Public Schools** 

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools Source: National Center for Education Statistics Telephone: 202-502-7300 The National Center for Education Statistics' primary database on private school locations in the United States. Daycare Centers: Licensed Facilities Source: Department of Social Services Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA Telephone: 877-336-2627 Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory Source: Department of Fish and Wildlife Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map Source: U.S. Geological Survey

## STREET AND ADDRESS INFORMATION

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# **GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM**

### TARGET PROPERTY ADDRESS

CORBY BESS NOT REPORTED VACAVILLE, CA 95687

## TARGET PROPERTY COORDINATES

Latitude (North):	38.392465 - 38^ 23' 32.87''
Longitude (West):	121.907489 - 121 54' 26.96"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	595409.9
UTM Y (Meters):	4249719.5
Elevation:	78 ft. above sea level

## USGS TOPOGRAPHIC MAP

Target Property Map:	12021563 ALLENDALE, CA
Version Date:	2018
South Map:	12021597 ELMIRA, CA
Version Date:	2018

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

- Groundwater flow direction, and
   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).

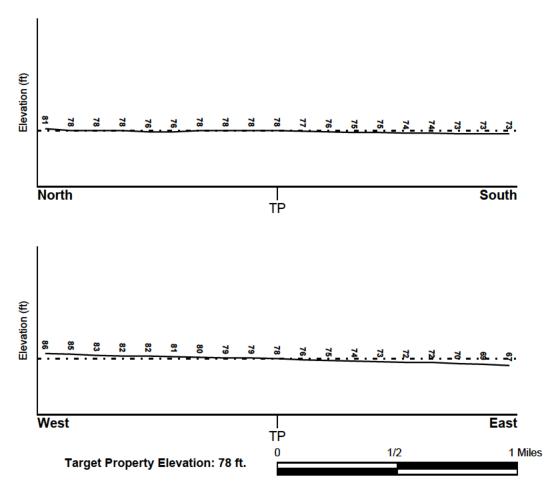
## TOPOGRAPHIC INFORMATION

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 ESE

## 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

Flood Plain Panel at Target Property	FEMA Source Type
06095C0168E	FEMA FIRM Flood data
Additional Panels in search area:	FEMA Source Type
06095C0166F 06095C0167F 06095C0169E	FEMA FIRM Flood data FEMA FIRM Flood data FEMA FIRM Flood data
NATIONAL WETLAND INVENTORY	
NWI Quad at Target Property ALLENDALE	NWI Electronic <u>Data Coverage</u> YES - refer to the Overview Map and Detail Map

#### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:			
Search Radius:	1.25 miles		
Status:	Not found		

#### **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID Not Reported LOCATION FROM TP GENERAL DIRECTION GROUNDWATER FLOW

## **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.

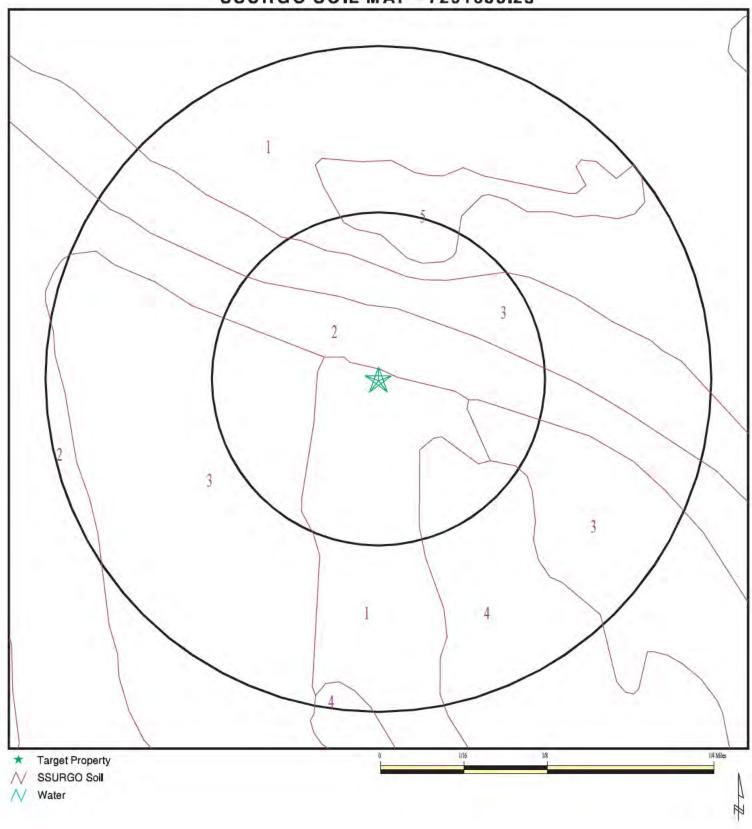
## **ROCK STRATIGRAPHIC UNIT**

## **GEOLOGIC AGE IDENTIFICATION**

Era:	Cenozoic Ca	tegory:	Stratifed Sequence	
System:	Quaternary			
Series:	Quaternary			
Code:	Q (decoded above as Era, System & Series)			

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 7291635.2s



SITE NAME: Corby BESS	CLIENT: DUDEK
ADDRESS: Not Reported	CONTACT: Susan Smith
Vacaville CA 95687	INQUIRY #: 7291635.2s
LAT/LONG: 38.392465 / 121.907489	DATE: March 27, 2023 7:24 pm

## 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:	San Ysidro
Soil Surface Texture:	sandy 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:	Moderately well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	High
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

	Boundary			Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	14 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4
2	14 inches	27 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4
3	27 inches	53 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4
4	53 inches	68 inches	stratified sandy loam to clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4

## Soil Map ID: 2

Soil Component Name:	Yolo
Soil Surface Texture:	loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	High
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

	Soil Layer Information						
	Boundary		Classi	fication	Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	27 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6
2	27 inches	44 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6
3	44 inches	59 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6

# Soil Map ID: 3Soil Component Name:San YsidroSoil Surface Texture:sandy loamHydrologic Group:Class D - Very slow infiltration rates. Soils are clayey, have a high<br/>water table, or are shallow to an impervious layer.Soil Drainage Class:Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information						
	Boundary			Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	14 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4
2	14 inches	27 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4
3	27 inches	53 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4
4	53 inches	68 inches	stratified sandy loam to clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4

Soil Map ID: 4	
Soil Component Name:	Clear Lake
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:	Poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 138 inches

	Soil Layer Information						
	Boundary		Boundary Class		fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	44 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.4
2	44 inches	59 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.4

Soil Map ID: 5	
Soil Component Name:	Сарау
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:	Moderately well drained
Hydric Status: Partially hydric	
Corrosion Potential - Uncoated Steel:	High
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

# **GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE SUMMARY**

	Soil Layer Information								
	Boundary			Classification		Saturated hydraulic			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)		
1	0 inches	31 inches	clay	Silt-Clay	FINE-GRAINED	Max: 1.4	Max: 8.4		
				Materials (more than 35 pct. passing No. 200), Clayey	SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Min: 0.42	Min: 7.4		
				Soils.	,				
2	31 inches	50 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.4		
3	50 inches	61 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.4		

#### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

#### WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

#### FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS4000	1/8 - 1/4 Mile North
9	USGS40000188049	1/2 - 1 Mile SSW
C14	USGS40000188108	1/2 - 1 Mile WNW

# **GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE SUMMARY**

#### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP

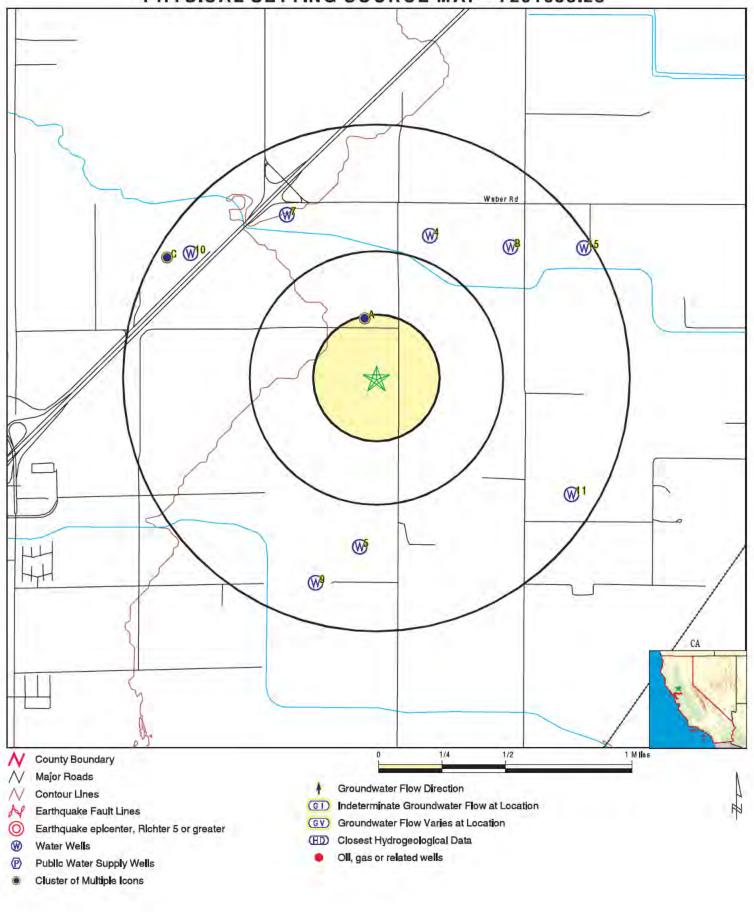
No PWS System Found

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

#### STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	CAUSGSN00009459	1/8 - 1/4 Mile North
A3	CADWR0000034293	1/4 - 1/2 Mile NNW
4	CADPR000003104	1/2 - 1 Mile NNE
5	CADPR000003045	1/2 - 1 Mile South
B6	6483	1/2 - 1 Mile NE
7	CADWR9000039112	1/2 - 1 Mile NNW
B8	CADDW0000013926	1/2 - 1 Mile NE
10	CADWR9000039107	1/2 - 1 Mile NW
11	CADPR000002311	1/2 - 1 Mile ESE
C12	CADDW000003320	1/2 - 1 Mile WNW
C13	CAUSGSN00008867	1/2 - 1 Mile WNW
15	CADPR000003036	1/2 - 1 Mile ENE
C16	CADWR0000023299	1/2 - 1 Mile WNW

## PHYSICAL SETTING SOURCE MAP - 7291635.2s



Corby BESS Not Reported Vacaville CA 95687 38.392465 / 121.907489	CLIENT: DUDEK CONTACT: Susan Smith INQUIRY #: 7291635.2s DATE: March 27, 2023 7:24 pm
	Copyright © 2023 EDR, Inc. © 2015 TomTom Rel. 2015.

Map ID Direction				
Distance Elevation			Database	EDR ID Number
A1 North 1/8 - 1/4 Mile Higher			CA WELLS	CAUSGSN00009459
Well ID: Source:	USGS-382345121542501 United States Geological Survey	Well Type:	UNK	
Other Name: Groundwater Quality Data: GeoTracker Data:	USGS-382345121542501 https://gamagroundwater.waterboard amp_date=&global_id=&assigned_na Not Reported	GAMA PFAS Testing: ls.ca.gov/gama/gamamap/ ame=USGS-38234512154	/public/GamaDa	Reported taDisplay.asp?dataset=USGSNEV m=
A2 North /8 - 1/4 Mile Higher			FED USGS	USGS40000188091
Organization ID:	USGS-CA			
Organization Name: Monitor Location:	USGS California Water Science Cen 006N001E06F002M	ter Type:	Well	
Description:	Not Reported	HUC:	1802	0109
Drainage Area:	Not Reported	Drainage Area Units:		Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area l		Reported
Aquifer:	Central Valley aquifer system	-		
Formation Type:	Alluvial Fan Deposits	Aquifer Type:	Not F	Reported
Construction Date:	19751227	Well Depth:	100	
Well Depth Units:	ft	Well Hole Depth:	100	
Well Hole Depth Units:	ft			
Ground water levels,Number o	f Measurements: 1	Level reading date:	1980	-01-22
Feet below surface:	6.35	Feet to sea level:	Not F	Reported
Note:	Not Reported			
43 NNW 1/4 - 1/2 Mile			CA WELLS	CADWR0000034293
ligher Well ID:	06N01E06F002M	Well Type:	UNK	
Source:	Department of Water Resources	wen rype.	UNIX	
Other Name:	06N01E06F002M	GAMA PFAS Testing:	Not F	Reported
Groundwater Quality Data:	https://gamagroundwater.waterboard			
2	date=&global_id=&assigned_name=(	06N01E06F002M&store_r	num=	
GeoTracker Data:	Not Reported			
4 NNE 1/2 - 1 Mile			CA WELLS	CADPR0000003104
Lower				
Well ID:	97370	Well Type:	UNK	
Source:	Department of Pesticide Regulation		NI / P	Demonto d
Other Name:	97370	GAMA PFAS Testing:		Reported
Groundwater Quality Data:	https://gamagroundwater.waterboard		/public/GamaDa	tabisplay.asp?dataset=DPR&sam
	date=&global_id=&assigned_name=	31310&SIULE_HUITE		

GeoTracker Data:

Not Reported

South 1/2 - 1 Mile Lower			CA WELLS	CADPR000003045
Well ID:	97371	Well Type:	UNK	
Source:	Department of Pesticide Regulation			
Other Name:	97371	GAMA PFAS Testing:	Not R	Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards	.ca.gov/gama/gamamap/		
GeoTracker Data:	date=&global_id=&assigned_name=9 Not Reported	7371&store_num=		
36 NE			CA WELLS	6483
/2 - 1 Mile .ower				
Seq:	6483	Prim sta c:	06N/01E-06	6A02 M
Frds no:	4800716001	County:	48	
District:	04	User id:	ENG	
System no:	4800716	Water type:	G	
Source nam:	WELL 01 - INACTIVE	Station ty:	WELL/AMB	NT/MUN/INTAKE
Latitude:	382400.0	Longitude:	1215350.0	
Precision:	3	Status:	IR	
Comment 1:	7035 LEWIS RD VACAVILLE-LOCATED IN	FARMING AREA-MAINL	Y ROW CROPS	3
Comment 2:	Not Reported	Comment 3:	Not Reporte	
Comment 4:	Not Reported	Comment 5:	Not Reporte	
Comment 6:	Not Reported	Comment 7:	Not Reporte	
System no:	4800716	System nam:	Douglas Re	entals
Hgname:	Not Reported	Address:	Not Reporte	
City:	Not Reported	State:	Not Reporte	
Zip:	Not Reported	Zip ext:	Not Reporte	
Pop serv:	0	Connection:	0	
Area serve:	Not Reported		0	
7				
NNW I/2 - 1 Mile Higher			CA WELLS	CADWR9000039112
State Well #:	06N01E06D001M	Station ID:	2764	0
Well Name:	06N01E06D001M	Basin Name:	Solar	
Well Use:	Unknown	Well Type:		e Well
Well Depth:	90	Well Completion Rpt #:		Reported
B8 NE I/2 - 1 Mile Lower			CA WELLS	CADDW0000013926
Well ID: Source:	4800716-001 Department of Health Services	Well Type:	MUN	ICIPAL

WELL 01 - INACTIVE GAMA PFAS Testing: Not Reported Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp\_ date=&global\_id=&assigned\_name=4800716-001&store\_num= Not Reported

GeoTracker Data:

Other Name:

SW 2 - 1 Mile ower			FED	USGS	USGS4000018804
Organization ID:	USGS-CA				
Organization Name:	USGS California Wa	ater Science C	Center		
Monitor Location:	006N001E07E001N	1	Type:	Well	
Description:	Not Reported		HUC:	18020	109
Drainage Area:	Not Reported		Drainage Area Units:	Not Re	eported
Contrib Drainage Area:	Not Reported		Contrib Drainage Area Unts:	Not Re	eported
Aquifer: Central Valley aqu		er system	Ũ		
Formation Type:	Not Reported	,	Aquifer Type:	Not Re	eported
Construction Date:	19790525		Well Depth:	150	
Well Depth Units:	ft		Well Hole Depth:	150	
Well Hole Depth Units:	ft				
Ground water levels,Numbe	r of Measurements:	1	Level reading date:	1980-0	)1-22
Feet below surface:	6.32		Feet to sea level:	Not Re	eported
Note:	Not Reported				

10 NW 1/2 - 1 Mile Higher

> 06N01W01B001M State Well #: Station ID: Well Name: PG&E Basin Name: Well Use: Unknown Well Type: Well Depth: 150

Well Completion Rpt #:

27642 Solano Single Well Not Reported

CADWR9000039107

CA WELLS

11 ESE 1/2 - 1 Mile Lower			CA WELLS	CADPR0000002311
Well ID:	96566	Well Type:	UNK	
Source:	Department of Pesticide Regulation	1		
Other Name:	96566	GAMA PFAS Testing:	Not Re	eported
Groundwater Quality Data:	https://gamagroundwater.waterboar date=&global_id=&assigned_name		/public/GamaData	aDisplay.asp?dataset=DPR&samp_
GeoTracker Data:	Not Reported			

Map ID Direction				
Distance				
Elevation			Database	EDR ID Number
C12 WNW			CA WELLS	CADDW000003320
1/2 - 1 Mile				
Higher				
Well ID:	4800826-005	Well Type:	MUNI	CIPAL
Source: Other Name:	Department of Health Services WELL 05	GAMA PFAS Testing:	Not R	eported
Groundwater Quality Data:	https://gamagroundwater.waterboard			
	date=&global_id=&assigned_name=4	1800826-005&store_num=	=	
GeoTracker Data:	Not Reported			
C13 WNW 1/2 - 1 Mile			CA WELLS	CAUSGSN00008867
ligher				
Well ID:	USGS-382358121551801	Well Type:	UNK	
Source: Other Name:	United States Geological Survey USGS-382358121551801	GAMA PFAS Testing:	Not P	eported
Groundwater Quality Data:	https://gamagroundwater.waterboard	5		
,, ,	amp_date=&global_id=&assigned_na			
GeoTracker Data:	Not Reported			
C14				
WNW I/2 - 1 Mile			FED USGS	USGS40000188108
ligher				
Organization ID:	USGS-CA			
Organization Name:	USGS California Water Science Cent	ter		
Monitor Location:	006N001W01B004M	Туре:	Well	
Description:	Not Reported	HUC:	18020 Nat D	
Drainage Area: Contrib Drainage Area:	Not Reported Not Reported	Drainage Area Units: Contrib Drainage Area U		eported eported
Aquifer:	Central Valley aquifer system	Contrib Drainago / roa (		oportod
Formation Type:	Not Reported	Aquifer Type:	Not R	eported
Construction Date:	19500708	Well Depth:	570	
Well Depth Units:	ft	Well Hole Depth:	600	
Well Hole Depth Units:	ft			
5				
NE /2 - 1 Mile .ower			CA WELLS	CADPR000003036
Well ID:	97368	Well Type:	UNK	
Source:	Department of Pesticide Regulation			
Other Name:	97368	GAMA PFAS Testing:	Not R	eported
Croundwater Ourl's Dete	https://www.energy.org/www.energy.org/		nublia (O D ·	Diaplay appointment DDD0-
Groundwater Quality Data: GeoTracker Data:	https://gamagroundwater.waterboard date=&global_id=&assigned_name={ Not Reported		/public/GamaDat	aDisplay.asp?dataset=DPR&samp

Map ID Direction Distance Elevation			Database	EDR ID Number	
C16 WNW 1/2 - 1 Mile Higher			CA WELLS	CADWR0000023299	
Well ID:	06N01W01B004M	Well Type:	UNK		
Source:	Department of Water Resources				
Other Name:	06N01W01B004M	GAMA PFAS Testing:	Not R	eported	
Groundwater Quality Data:	https://gamagroundwater.waterboard date=&global_id=&assigned_name=	0 0 0 1		aDisplay.asp?dataset=D	WR&samp_
GeoTracker Data:	Not Reported				

#### AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
95687	29	2

Federal EPA Radon Zone for SOLANO 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 Zip Code: 95687

Number of sites tested: 7

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.529 pCi/L	71%	29%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

#### **TOPOGRAPHIC INFORMATION**

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map Source: U.S. Geological Survey

#### HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA Telephone: 877-336-2627 Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: Department of Fish and Wildlife Telephone: 916-445-0411

#### HYDROGEOLOGIC INFORMATION

AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

#### **GEOLOGIC INFORMATION**

#### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

#### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS) The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS) Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

#### LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

#### **OTHER STATE DATABASE INFORMATION**

Groundwater Ambient Monitoring & Assessment Program

State Water Resources Control Board

Telephone: 916-341-5577

The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database Source: Department of Water Resources Telephone: 916-651-9648

California Drinking Water Quality Database

Source: Department of Public Health

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations

Source: Dept of Conservation, Geologic Energy Management Division Telephone: 916-323-1779 Oil and Gas well locations in the state.

California Earthquake Fault Lines

Source: California Division of Mines and Geology

The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

#### RADON

State Database: CA Radon Source: Department of Public Health Telephone: 916-210-8558 Radon Database for California

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

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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# Appendix D

Site Representative Interview

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the user (the person or entity on whose behalf the Phase I Environmental Site Assessment is being conducted) must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The user should provide the following information to the environmental professional. Failure to conduct these inquiries could result in a determination that "all appropriate inquiries" is not complete. The questions are as follows:

1. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state, or local law?

No			

 Are you aware of any activity and land use limitations, such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law?

No

3. As the user of this ESA, do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

No

4. If the purchase price of the subject property was below fair market value, did this occur because contamination was/is known or believed to be present at the property?

No

5. Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases?

No

a. Do you know the past uses of the property?

Walnut farming

b. Do you know of specific chemicals that are present or once were present at the property?

No

No

c. Do you know of spills or other chemical releases that have taken place at the property?

No

d. Do you know of any environmental cleanups that have taken place at the property?

6. As the user of this ESA, based on your knowledge and experience related to the property, are there any

obvious indicators that point to the presence or likely presence of contamination at the property?

No

Stephen Ahn

Signature

Stephen Ahn / Sr. Project Manager

Printed Name and Title

Corby Energy Storage, LLC

Company/Position

3/28/2023

Date

The ASTM Standard (E 1527-21, Section 10) for Phase I Environmental Site Assessments requires interviews with past and present owners and occupants of the property in order to obtain information on the history and uses of the property. Please answer the questions below to the best of your knowledge. Please provide additional information for all YES answers.

#### 1. Current Property Uses and Buildings:

How long have you owned or occupied the property?

Since 1997.

Describe the current uses of the property.

Used land to farm, mainly almonds.

How long has the property been used for these purposes?

Since 1997.

Describe any buildings on the property and indicate the years they were constructed.

N/A

2. Past Uses: Describe the past use(s) of the property and indicate the time period for each use, if known.

3. Previous Owners/Operators: Please identify previous owners and operators and provide their contact information (if available).

N/A

4. Industrial Uses: Please indicate whether the property or adjoining properties have been used for the following industrial uses. Adjoining properties include properties that are across the street from yours.

Industrial Use	Yes (Property)	Yes (Adjoining Property)	No
Gasoline Station			$\checkmark$
Printing Facility			$\checkmark$
Metal Plating Manufacturing			$\checkmark$
Landfill			$\checkmark$
Auto Repair/Service Facility			$\checkmark$
Dry Cleaners			$\checkmark$
Junkyard/Auto Dismantling			$\checkmark$
Waste Treatment			$\checkmark$
Other Industrial Use (please describe below):			$\checkmark$

### 5. Agricultural Uses: Has the subject property ever been used for agricultural purposes? √ Yes No Unknown

If yes, please indicate whether any of the following have been present on the subject property.

Agricultural Use	Yes	No	Location
Cattle Hoof Wash			
Wheel Wash, Copper Solution or Other		V	
Orchards	<		Aimond Trees since 1997.
Orchard Heaters/Smudge Pots			
Pesticide/Herbicide/Fungicide Storage			Location, type, duration:
Pesticide/Herbicide/Fungicide Application	$\checkmark$		Location, type, duration: Summer of 2022

6. Dump/Burn Areas: Have any hazardous substances, petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or other waste materials been dumped above ground, buried, or burned on the property?

Yes 🗸 No Unknown

If yes, please describe:

# 7. Hazardous Substances Storage: Have any of the following items been stored on the property in containers greater than 5 gallons? If yes, please describe.

Substance	Yes	No	Substance and Container Size (e.g., waste oil in 55-gallon drum)
Paint			
Chemicals			
Solvents			
Pesticides			
Fuel			
Oil			
Other (please identify):			

#### 8. Hazardous Substances Spills: Have there been spills of the substances in Question 6?

Yes VNO Unknown

If yes, please describe:

9. Pipelines: Have hazardous substances or petroleum products been transferred across the property in pipelines, either above or below ground?

Yes No Unknown

If yes, please provide the type of hazardous substance:

Have any spills occurred? Yes No Unknown If yes, please describe:

10. Fill Dirt: Has fill dirt been brought onto the property from an off-site source?

Yes 🗸 No Unknown

If yes, what was the source of fill dirt?

If yes, was/is there evidence that the fill dirt in may be contaminated?

Yes No Unknown

If yes, please provide soil sampling data, if available, or describe other evidence:

11. Pits, Ponds, and Lagoons: Are there currently any pits, ponds, or lagoons on the property?

Yes 🖌 No Unknown

If yes, please describe:

Have any pits, ponds, or lagoons previously existed on the property? Yes No Unknown If yes, please describe:

12. Stained Soil: Are there currently any areas on the property with stained soil?

Yes No Unknown

If yes, please describe where, the size of stain, if there were odors, etc.:

Has stained soil previously existed on the property?

Yes No Unknown

If yes, please describe where, size of stain, if there were odors, etc.:

13. Storage Tanks: Do underground or aboveground storage tanks exist or have they existed previously on the property?

Yes 🗸 No Unknown

If yes, please provide details below. If tanks previously existed on the property, please describe how they were closed (e.g., removed, abandoned in place).

Tank Size	Year Installed	Contents	Closure Method (if applicable)	Year Closed (if applicable)
_				
_				
				12

14. Fill Pipes/Vent Pipes/Access Ways: Do fill pipes, vent pipes, or access ways indicating the presence of underground storage tanks currently exist on the property?

Yes No Unknown

Have fill pipes or vent pipes, which may indicate the presence of an underground storage tank, been removed from the property?

Yes 🖌 No Unknown

**15. Floor Drains:** Are floor drains stained with anything other than water or do they emit foul odors on the property?

Yes VNo Unknown

16. Private Well/Non-Public Water Source: Is the property served by a private well or other non-public

water source?

Yes 🖌 No Unknown

If yes, please describe source

Are contaminants known to exist in any private well or non-public water system serving the property? Yes No Unknown

If yes, please describe

**17. Wastewater:** Does the property discharge wastewater, other than domestic wastewater or stormwater, into the sewer?

Yes No Unknown

If yes, please describe

Does a neighboring property discharge wastewater, other than stormwater, onto the property?
Yes No Unknown

If yes, please describe

Other than permission for domestic hookup, has any type of permit(s) for wastewater discharge been issued to the property?

Yes 🖌 No 🗌 Unknown

If yes, please describe

**18. Septic Tank:** Does a septic tank exist, or has one existed previously at the property?

Yes (currently exists) Yes (previously existed, was removed) Vo Unknown

<b>19. Cesspools/Cisterns:</b> Do cesspools or cist Yes (cesspool) Yes (cistern)	
Have cesspools or cisterns previously ex	isted on the property?
Yes (cesspool) Yes (cistern)	Unknown
20. Transformer/Capacitor: Is there a trans	sformer or capacitor on the property?
Yes No Unknown	
If yes, is it known to contain PCBs?	
Yes No Unknown	
the property? Yes No Unknown If yes, please describe type and number	raulic equipment such as automobile lifts or elevators on of equipment:
If yes, is the hydraulic oil known to conta	in PCBs?
22. Surveys: Has an asbestos and/or lead ba	ased paint survey been conducted at the property?
	d? Please provide copies of the reports if available.

23. Pesticides: Have pesticides, herbicides, or insecticides been applied on the property?

Yes No Unknown

If yes, describe type and when they were used:

Summer of 2022

24. Environmental Cleanups: Are you aware of any environmental cleanups/remediation that have occurred on the property?

Yes 🗸 No Unknown

**25. Notice of Violation:** Have notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products associated with activities conducted on the property been issued?

Yes No Unknown

26. Documents: Has the property been included in any of the following documents? (Please provide any of the available documents.)

Document	Yes	No	Unknown
Phase I or II Environmental Assessment Reports			$\checkmark$
Environmental Compliance Audits			$\checkmark$
Environmental Permits			
Underground or Aboveground Tank Registrations			$\checkmark$
Underground Injection System Registrations			$\checkmark$
Health & Safety Plan / Safety Data Sheets			$\checkmark$
Community Right-to-Know Plan			$\checkmark$
Spill Prevention, Control, and Countermeasure Plan			$\checkmark$
Hazardous Materials Business Plan			$\checkmark$
Sampling, Remediation, or Risk Assessment Reports			$\checkmark$
Hazardous Waste Generator Manifests			$\checkmark$
Geotechnical Reports			$\checkmark$

**27. Environmental** Assessments: Are there any other environmental assessments that identified hazardous substances or petroleum products on the property?

Yes No Unknown

If yes, please describe:

28. Litigation/Administrative Proceedings: Is there any pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products associated with the property?

Yes VNo Unknown

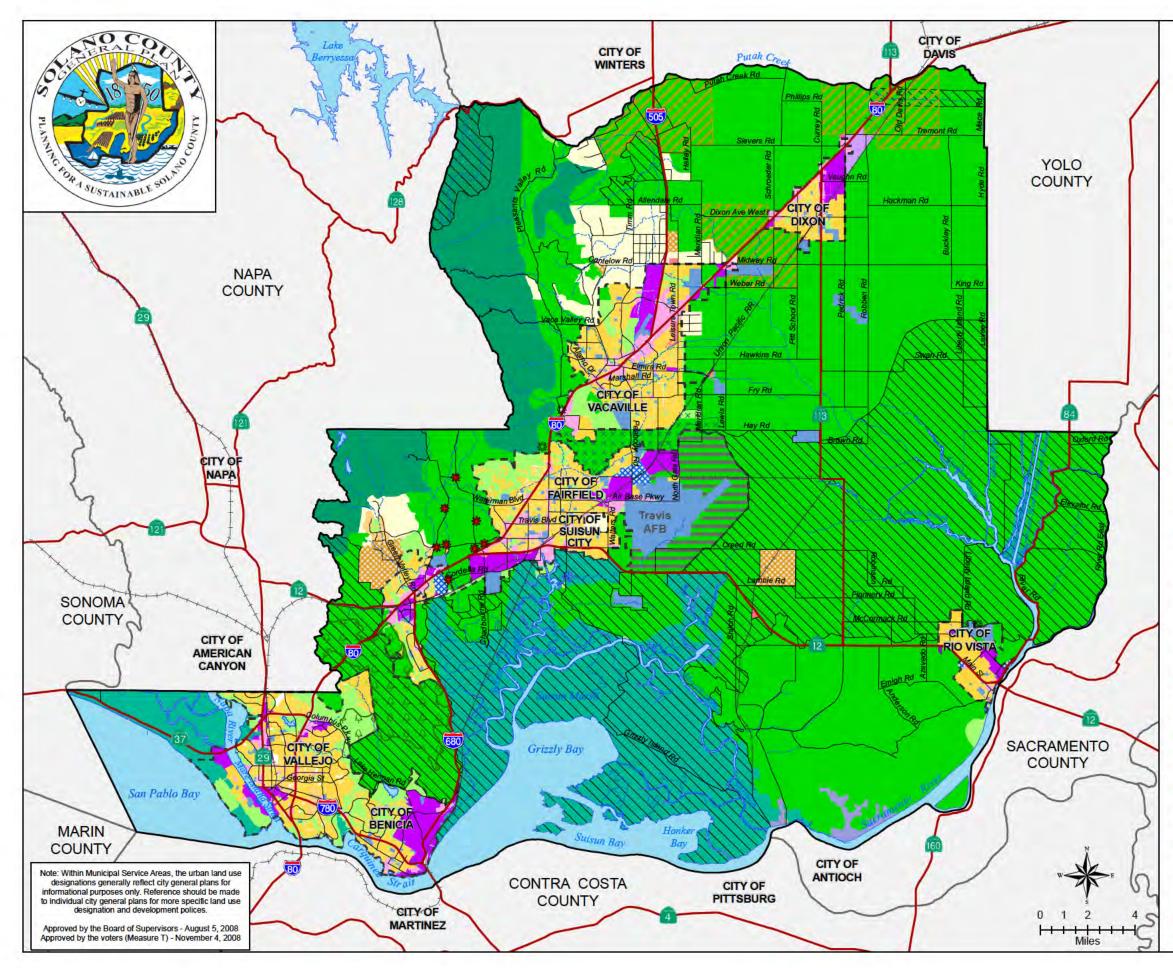
If yes, please describe:

29. Additional Knowledge: Are you aware of any other information (not provided above) about the property related to a releases or potential release of hazardous substances or petroleum products?
 Yes No Unknown
 If yes, please describe:

Harm Singh		
Signature		Date
Harm Singh		Owner Occupant Owner Representative
Name (Printed)	100	
Property Address:	N/A	
	Parcel N	lumber 0141030090

r

# **Appendix E** Local Agency Records



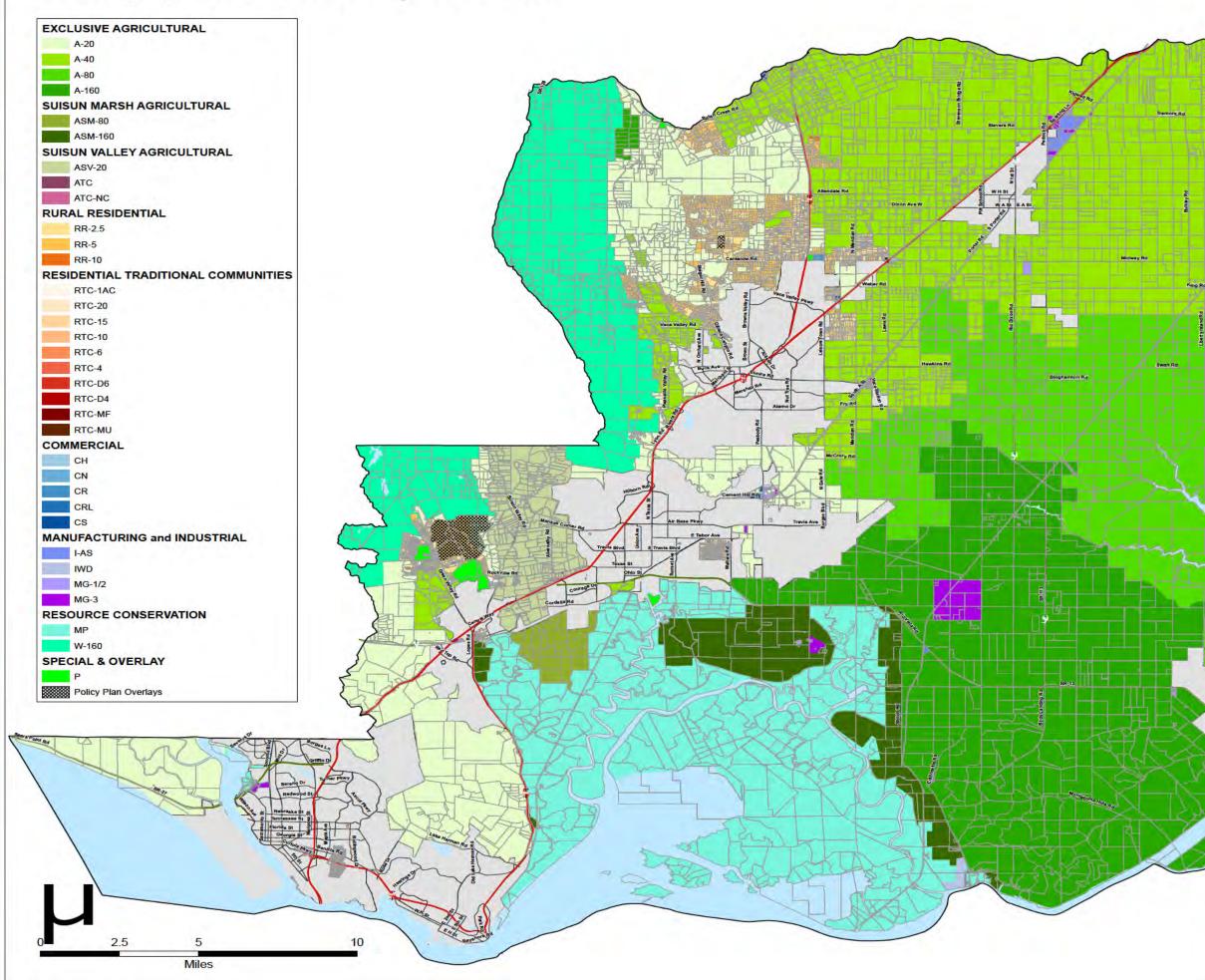
Solano County General Plan

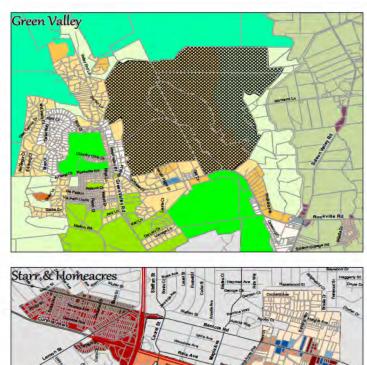
# Figure LU-1

# Land Use Diagram

	Land Use Diagram
Lege	end
122	Municipal Service Areas
Gen	eral Plan Land Use Designations
Natu	ral Resource Designations
	Water Bodies and Courses
	Park and Recreation
1	Marsh
Agri	cultural Designations
-	Watershed
	Agriculture
Publ	ic Designations
	Public/Quasi-Public
Resi	dential Designations
	Rural Residential
	Traditional Community - Residential
	Traditional Community - Mixed Use
	Urban Residential
Com	mercial Designations
	Neighborhood Commercial
*	Neighborhood Agricultural/Tourist Center
	Commercial Recreation
	Service Commercial
	Highway Commercial
-	Urban Commercial
Indu	strial Designations
	General Industrial
	Limited Industrial
1	Water Dependent Industrial
	Urban Industrial
Spec	ial Purpose Areas
202	Joint Study Area
****	Specific Project Area
****	Urban Project Area
Over	
	Vacaville-Fairfield-Solano Greenbelt
-	Travis Reserve Area
	Agicultural Reserve Overlay
44	
11	Resource Conservation Overlay

# County of Solano Zoning Districts

















### **Nicole Tucker**

From:VanderZwaag, Alisha R. <ARVanderZwaag@SolanoCounty.com>Sent:Friday, April 7, 2023 11:10 AMTo:Nicole TuckerSubject:RE: Public Records/File review for APN 0141030090

Hi Nicole,

There are no records for the requested APN related to hazardous wastes or materials.

Please reach out if you have questions or concerns. Thank you!

Warm regards, *Alisha R. VanderZwaag, MPH* Hazardous Materials Specialist Hazardous Materials Section Resource Management 675 Texas Street, Suite 5500 Fairfield, CA 94533 (707) 784-6765 <u>ARVanderZwaag@SolanoCounty.com</u>



From: RMAdminFax <RMAdminFax@SolanoCounty.com>
Sent: Thursday, April 6, 2023 3:41 PM
To: VanderZwaag, Alisha R. <ARVanderZwaag@SolanoCounty.com>
Subject: FW: Public Records/File review for APN 0141030090

Good afternoon Alisha,

Can you assist?

Thank you,



Erika Crawford

Clerical Operations Supervisor Department of Resource Management 675 Texas Street, Suite 5500 Fairfield, CA 94533 Phone: 707.784.3138 Email:eocrawford@solanocounty.com

"Life's most persistent and urgent question is, 'What are you doing for others?""-Martin Luther King, Jr.

From: Nicole Tucker <<u>ntucker@dudek.com</u>> Sent: Monday, April 3, 2023 10:49 AM To: RMAdminFax <<u>RMAdmin@solanocounty.com</u>> Subject: Public Records/File review for APN 0141030090

Good afternoon,

I am conducting a Phase I Environmental Site Assessment for a parcel, APN 0141030090, in Vacaville, CA. It is located on the southwest corner of Kilkenny Rd and Byrnes Rd. It has no address for the property. I would like to request any records you might have pertaining to hazardous material/waste storage, releases, or cleanup actions, if any exist for the location.

Thank you,

### Nicole Tucker

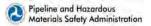
Hydrogeologist

853 Lincoln Way, Ste 105 Auburn, CA 95603

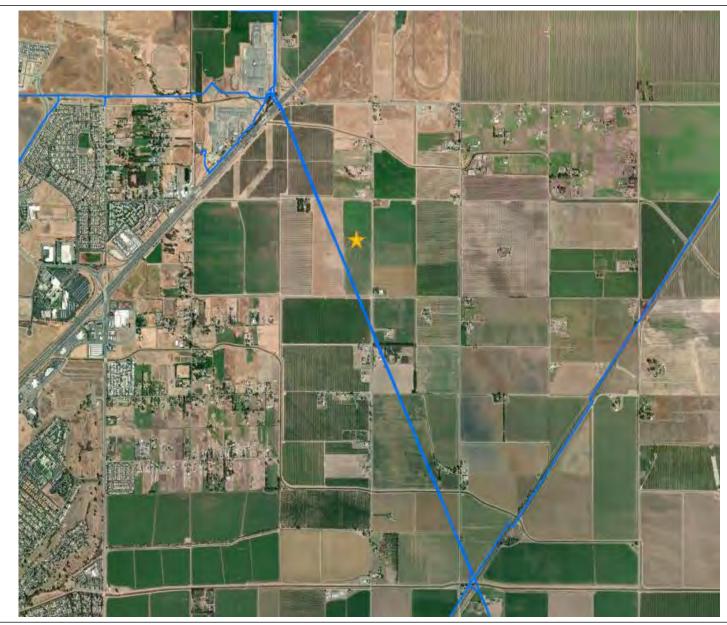
www.dudek.com

[EXTERNAL Email Notice!] External communication is important to us. Be cautious of phishing attempts. Do not click or open suspicious links or attachments.

Permittee	Site ID Site Bi	ID Source	Site Location SW CRNR KILKENNY RD	Site Name	eridi Townshi an p	Range Sec	ction Date	ion Appli	ication Commo ime Code	odity Se Comm	odity Pre- plant	Planted Planted Amount Units	EPA Rog No	Product Name Registration Expired	RMP	Quantity Quantity Used Units	Treated Amount	Treated Ap Units Met	L Fume od Code Applicator Name	Applicator License # Type	Address 1	Days Days Pro Reentry Harvest	Document#	Submitted By	Submitted Tim Date Stamp	Stamp Time	Rpt Sut Status State	School Notify	Al-1 Chem Al-1 Chem Nam Code	Pounds	Al-2 Chans Code Al-2 Chans Name	Al-2 Pounds Code	em Al-3 Chem Name	" Ai-3
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HARMINDER	B1	webbeich	AND BYRNES RD SW CRNR KILKENNY RD	-	M OBN	01E (	08 4/5/2018	11:00	AM 3001-0	ALMON	D No	110.0000 ACRES	2935-50171-AA	CAYUSE PLUS	True	0.9100 Gallon	9.0900 AC	CRES Groun	Grower Applied				7235417	GROWER APPLIED	4/24/2018 4/24/20	8 11.58 AM	ACC DPR	Not Required					_	_
HARMINDER	81	webbitch	AND BYRNES RD		M DEN	01E 0	08 4/5/2018	11:00	AM 3001-0	ALMON	D No	110.0000 ACRES	42750-72-ZA	CLETHOOM 2E	True	0.5700 Gallon	9.0900 AC	ORES Groun	Grower Applied			_	7235417	GROWER APPLIED	4/24/2016 4/24/20	8 11:58 AM	ACC DPR	Not Required	0 INERT INGREDIENT	8 3.3373	3566 CLETHODIN	1.1971		_
HARMINDER	81	webbech	AND BYRNES RD SW CRNR KILKENNY RD	-	M DEN	01E 0	08 4/5/2018	11.00	AM 3001-0	ALMON	D No	110,0000 ACRES			Titue	0.5700 Pounds	9.0900 AC	CRES Groun	Grower Applied			_	7235417	GROWER APPLIED	4/24/2018 4/24/20	8 11.58 AM	ACC DPR	Not Required	0 INERT INGREDIENT	8 0.1710	5077 SAFLUFENACL	0.3990	_	_
HARMINDER	81	webbetch	AND BYRNES RD SW CRNR KULKENNY RD	-	M OBN	01E (	08 4/5/2018	11:00	AM \$001-0	ALMON	D No	110.0000 ACRES	82719-424-AA	GOAL 221. PROWL(R) H20	True	1.1400 Gallon	9.0900 AC		Grower Applied			_	7235417	and the second sec	4/24/2018 4/24/20				0 INERT INGREDIENT		1973 OXYFLUORFEN	2.2875	-	_
HARMINDER	B1	webbeich	AND BYRNES RD SW CRNR KILKENNY RD	-	M DEN				AM 3001-0			110.0000 ACRES	241-418-AA	HERBICI SUPER SPREAD	True	8.8200 Gailon	9.0900 AC		Grower Applied			-	7235417		4/24/2018 4/24/20				0 INERT INGREDIENT	8 40.9193	1929 PENDIMETHALIN	25.6332	-	_
HARMINDER	81	webbech	AND BYRNES RD SW CRNR KILKENNY RD	-	M DEN		08 4/5/2018					110,0000 ACRES			Titue	1.1400 Gallon	9.0900 AC		Grower Applied				7235417		4/24/2018 4/24/20									-
H, HARMINDER	B1	webbetch	AND BYRNES RD	-	M DBN	01E (	08 4/5/2018	11:00	AM 3001-0	ALMON	D No	110.0000 ACRES	2935-50188-AA		True	0.2500 Galton	9.0900 AC	CRES Groun	Grower Applied				7235417	GROWER APPLIED	4/24/2018 4/24/20	8 11.58 AM	ACC DPR	Not Required		-			-	-
HARMINDER	B1	webbeck	SW CRNR KILKENNY RD AND BYRNES RD SW CRNR KILKENNY RD	1211	M DEN	01E 0	08 4/7/2016	5.00 P	M 3001-0	ALMON	D No	110.0000 ACRES	524-549-AA	ROUNDUP POWERMAX HER	True	10.0000 Gallon	40.0000 AC	CRES Groun	Grower Applied				7235398	GROWER APPLIED	4/24/2018 4/24/20	8 11:57 AM	ACC DPR	Not Required	0 NERT INGREDIENT	8 58 1125	GLYPHOSATE, 5820 POTASSIUM SALT	55.1672	-	_
H, HARMINDER	B1	webbetch	SW CRNR KILKENNY RD AND BYRNES RD SW CRNR KILKENNY RD	10.1	M DEN	01E 0	08 4/7/2018	5.00 P	M 3001-0	ALMON	D No	110.0000 ACRES	82719-424-AA	GOAL 201	True	10.0000 Gallon	40.0000 AC	CRES Groun	Grower Applied				7235398	GROWER APPLIED	4/24/2018 4/24/20	8 11.57 AM	ACC DPR	Not Required	0 INERT INGREDIENT	8 89.9150	1973 OXYFLUORFEN	20.0657		_
H, HARMINDER	B1		AND BYRNES RD SW CRNR KALKENNY RD	-	M DEN	01E (	08 4/7/2018	5.00 P	M 3001-0	ALMON	D No	110 0000 ACRES	241-418-AA	HERBICI SUPER SPREAD	Thus	20.0000 Gallon	40.0000 AC	CRES Groun	Grower Applied				7235398	CROWER APPLIED	4/24/2018 4/24/20	8 11.57 AM	ACC DPR	Not Required	0 NERT INGREDIENT	5 119.9978	1929 PENDIMETHALIN	75.7572	_	_
H, HARMINDER	B1		AND BYRNES RD	-	M OBN	01E 0	08 4/7/2018	5:00 P	M 3001-0	ALMON	D No	110.0000 ACRES	2935-50176-AA		True	5.0000 Gallon	40.0000 AC	ORES Groun	Grower Applied				7235308	GROWER APPLIED	4/24/2018 4/24/20	8 11:57 AM	ACC DPR	Not Required					-	_
H, HARMINDER	BI	webbetch	AND BYRNES RD SW CRNR KILKENNY RD		M DEN	01E 0	08 4/7/2018	5.00 P	M 3001-0	ALMON	D NO	110.0000 ACRES	2935-50186-AA	CROSSHAIR	Town	1,2500 Callon	40,0000 AC	CRES Groun	Grower Applied				7235308	GROWER APPLIED	4/24/2018 4/24/20	8 11:57 AM	ACC OPR	Not Required		-			-	-
H HARMINDER	B1	webbatch	AND BYRNES RD SW CRNR KILKENNY RD	-	M OBN		06 6/5/2018	1000	AM 3001-0			110.0000 ACRES	100-817-23	TAT	Thin	6.8600 Gallon	110.0000 AC		Grower Applied				7970879	The second se	9/21/2018 9/21/20		1 1 C 1 1 1 1 1 1	Not Required	0 INERT INGREDIENT	8 34.2285	2278 PROPICONAZOLE	24 5834	_	-
HARMINDER	81		AND BYRNES RD SW CRNR KILKENNY RD	-	M DBN	- F1 - F	08 6/6/2018	10.00/	AM 3001-0	-		110.0000 ACRES	100-1351-AA	AGRI-MEK SC	True	3.4400 Gallon	110.0000 AC	1	Grower Applied			_	7970879	GROWER APPLIED	9/21/2018 9/21/20	8 10.43 AM	ACC DPR	Not Required	0 INERT INGREDIENT		2254 ABAMECTIN LAMBDA-	2.4212	-	_
HARMINDER	81	webbetch	AND BYRNES RD SW CRNR KILKENNY RD	-	M DEN		08 6/6/2018		AM 3001-0			110.0000 ACRES		546 PROVINCE I	Titue	2,2000 Gallon	110.0000 AC		Grower Applied	+ + +			7970879	and the second se	9/21/2016 9/21/20		and the second second		0 INERT INGREDIENT	8 29.4272	2297 CYHALOTHRIN	8.6909		-
H, HARMINDER	81		AND BYRNES RD SW CRNR KILKENNY RD		M DBN		06 6/6/2018		AM \$001-0					SYL-TAC-EA GRAMOXONE SL	True	13.7500 Gallon	110.0000 AC		Grower Applied			-	7970879	and the second se	9/21/2018 9/21/20	10000	1.2.1.1.1.1.1.1				PARAQUAT		-	-
HARMINDER	81	webbeich	AND BYRNES RD SW CRNR KILKENNY RD		M OBN		08 6/3/2018		PM 3001-0			110.0000 ACRES	100-1431-AA	2.0 R-11(R)	True	6.8200 Gallon	18.1800 AC		Grower Applied		-		7070807		921/2018 9/21/20				0 INERT INGREDIENT	8 43.6817	1801 DICHLORIDE	18.6100	-	-
HARMINDER	81	webbech	AND BYRNES RD SW CRNR KILKENNY RD	-			08 6/3/2018		PM 3001-0			110,0000 ACRES	a state of the second state	SPREADER-ACT	Tital	0.9100 Gallon	18,1800 AC		Grower Applied		-		7970897		9/21/2018 9/21/20 9/21/2018 9/21/20								-	7
HARMINDER		webbeith	AND BYRNES RD SW CRNR KILKENNY RD AND BYRNES RD	_			08 6/21/2019			_		110.0000 ACRES		TILT	True	0.5700 Gallon 3.4400 Gallon	15.1800 AC		Grower Applied Grower Applied				7970697	GROWER APPLIED				Not Required	0 NERT INGREDIENT	8 17.1143	2276 PROPICONAZOLE	10:007	-	-
HARMINDER		webeni	SW CRNR KILKENNY RD AND BYRNES RD											AORLMEK SC	Titue	1.7200 Gallon	55.0000 AC		Grower Applied	1	_		0407270					Not Required	0 NERT INGREDIENT		2254 ABAMECTIN	1 (1994)	-	-
			SW CRINE KILKENNY RD		- 1 1 - 1 - 1 - 1		08 6/21/2019	-	- 1 Later		1.1.1	ALTES	100-100-100	MITICIDE/INSECTI ROUNDUP POWERMAX		CONTRACTOR INCOME	ALCON AC	urpun	Concerned Applema				a summer summ			1.1.1.1.1		1.000	and the second s	IA THEO	GLYPHOSATE,			1
HARMINDER		wetzeni	AND BYRNES RD	+ +			08 3/1/2020	_				110.0000 ACRES	524-549-AA	HERBICIDE	This	5.3200 Galton	21.2700 AC		Grower Applied	+ + +			9685081	-				Not Regulared	0 NERT INGREDIENT		5820 POTASSIUM SALT	29.3490	-	-
HARMINDER		websers	AND BYRNES RD SW CRNR KILKENNY RD	+ +								110.0000 ACRES			True	2.9900 Gallon	21.2700 AC				-	-	0685081	-				Not Required	0 NERT INGREDIENT		1973 OXYFLUORFEN		5889 PENCKBULAM	M
HARMINDER		weitomi	AND BYRNES RD SW CRNR KILKENNY RD AND BYRNES RD SW CRNR KILKENNY RD	+ +			08 5/1/2020							ALION HERBICIDE VOLUNTEER	Town	0.6600 Gallon	21.2700 AC		Grower Applied				9685081	-		1:44 PM			0 NERT INGREDIENT		5999 INDAZIFLAM	1.0997	-	÷
HARMINDER		wetzeni	AND BYRNES RD SW CRNR KILKENNY RD	+ +			06 3/1/2020					110.0000 ACRES			True	1.3300 Gallon	21.2700 AC	and the second	the second se				9685081	-				Not Required	0 NERT INGREDIENT	8 7.8295	3568 CLETHOOM	2.8084		-
HARMINDER		websers	AND BYRNES RD SW CRNR KILKENNY RD AND BYRNES RD	-			08 3/1/2020								True	0.6600 Gallon	21.2700 AC		Grower Applied				0685061					Not Required		+ +			-	-
HARMINDER	81			+ +	M DEN	DIE (	5/4/2020	3:00 P	M 3001-0	ALMON	D No	110,0000 ACRES	2935-50171-AA		True	27300 Gallon	27.2700 AC	2018 Groun	Grower Applied				10140082	-	7/14/20	0 825 AM	ACC OPR	Not Required			GLYPHOSATE.			-
HARMINDER	B1	watami	SW CRNR KILKENNY RD AND BYRNES RD SW CRNR KILKENNY RD	-	M DEN	01E (	08 54/2020	3:00 P	M 3001-0	ALMON	D No	110.0000 ACRES		POWERMAX HERBICIDE	True	9.3700 Gellon	27.2700 AC	ORES Group	Grower Applied				10140082	-	7/14/20	0 825 AM	ACC DPR	Not Recuired	0 NERT INGREDIENT	54.4514	GLYPHOSATE, 5820 POTASSIUM SALT	51.6917	_	_
HARMINDER		webieni	AND BYRNES RD SW CRNR KILKENNY RD	+ +	M OBN	01E 0	08 5/4/2020	3.00 P	M 3001-0	ALMON	D No		7080-278-AA	POWERED BY SUPER SPREAD	True	1.7000 Pounds	27.2700 AC		Grower Applied				10140082	-	7/14/20	6 8:25 AM	ACC DPR	Not Required	0 NERT INGREDIENT	8 0.5100	5977 SAFLUFENACL	1.1900	-	_
HARMINDER	81	wetami	AND BYRNES RD SW CRNR KILKENNY RD	+			08 5/4/2020					110.0000 ACRES	2935-50178-AA	MBO	True	3.4100 Gaiton	27.2700 AC		Grower Applied		-	_	10140082	-				Not Required		-			_	_
HARMINDER		wetzeni	AND BYRNES RD	v			08 5442020					110.0000 ACRES	-		True	0.8500 Gallon	27.2700 AC		Grower Applied				10140082	-				Not Recuired		+ +				-
HARMINDER		webers	RD AND BYRNES RD SW CORNER OF KILKENN	v I			08 3/2/2021					110.0000 ACRES			True	2.5000 Gallon	25.0000 AC		Grower Applied				11194457	-				Not Required	and the second	1	100 A. 2. 2.		-	-
HARMINDER		wetzeni	RD AND BYRNES RD SW CORNER OF KILKENN RD AND BYRNES RD SW CORNER OF KILKENN	v l			08 3/2/2021					110.0000 ACRES			True	1.5600 Gallon	25.0000 AC		Grower Applied				11194457	-				Not Required	0 NERT INGREDIENT		3568 CLETHODIM	3.2941	-	-
HARMINDER	B1	wetzeni	RD AND BYRNES RD		M OBN	01E (	08 3/2/2021	2:00 P	M 3001-0	ALMON	D No	110.0000 ACRES	62719-424-AA	GOAL 20L SATELLITE	True	6.2500 Gallon	25.0000 AC	ORES Groun	Grower Applied				11194457	-	621/20	1 246 PM	ACC DPR	Not Required	0 NERT INGREDIENT	8 43.6060	1973 OXYFLUORFEN	12.5411	-	-
HARMINDER	Bi		SW CORNER OF KILKENN RD AND BYRNES RD SW CORNER OF KILKENN		M DEN	01E 0	08 3/2/2021	200 P	M 3001-0	ALMON	D No	110.0000 ACRES	70506-230-ZA	HYDROCAP HERBICIDE	Tiue	18.7500 Gallon	25.0000 AC	CRES Groun	Grower Applied				11194457	1	6/21/20	1 246 PM	ACC DPR	Not Regulared	0 INERT INGREDIENT	8 112.0192	1029 PENDIMETHALIN	70.7201	-	_
HARMINDER		wetami	RD AND BYRNES RD								D No	110.0000 ACRES	2935-50188-AA	CROSSHAIR	True	0.7600 Gallon	25 0000 AC		and the second se				11196457					Not Required		1	1.111		-	1
HARMINDER	B1	waterni	SW CORNER OF KILKENN RD AND BYRNES RD SW CORNER OF KILKENN	-	M DEN	01E (	08 10/19/2021	1 8.50 A	M 3001-0	ALMON	D No	110.0000 ACRES	284-1106-AA	ALION HERBICIDE	Thin	54.5400 Ounce	13.6964 AC	CRES Group	Grower Applied				1544534	-	11/14/2	21 7:05 PM	ACC DPR	Not Recisived		8 3.0169	5000 INDAZIFLAM	0.7100		_
HARMINDER	81	websty	RD AND BYRNES RD	0 I	M DEN	01E 0	08 10/19/2021	1 9:50 A	M 3001-0	ALMON	D No	110.0000 ACRES	2935-50178-AA	MBO PROWL H2D	Thus	2.2700 Quillon	13.6964 AC		Grower Applied			_	1644634					Not Required		-			_	_
HARMINDER	B1	wetzeni	RD AND BYRNES RD.	-	M DBN	01E (	08 10/19/2021	1 2:30 P	M 3001-0	ALMON	D No	110.0000 ACREB	241-418-AA	HERBICIDE	True	13.8300 Gallon	13.6364 AC				_	_	1644635	-				Not Required	0 NERT INGREDIENT		1020 PENDIMETHALIN	51.6285	-	_
HARMINDER		watami	RD AND BYRNES RD SW CORNER OF KILKENN RD AND BYRNES RD SW CORNER OF KILKENN	Y	M DEN	01E (	08 10/19/2021	1 230 P	M \$001-0	ALMON	D No	110.0000 ACRES	42750-138-AA	OXYSTAR 2E SUPER SPREAD	True	13.6300 Gallon	13.6964 AC		Grower Applied				1844835	+				Not Recuired	0 NERT INGREDIENT	S 89.0129	1973 OXYFLUORFEN	25.5468		_
HARMINDER	81	websers	RD AND BYRNES RD	+	M OBN	01E 0	08 10/19/2021	1 2:30 P	M 3001-0	ALMON	D No	110.0000 ACRES	2935-50176-AA	MBO	True	2.2700 Gallon	13.6364 AC	CRES Groun	Grower Applied	42%	W REGO RD		1644835	-	11/14/2	21 7:08 PM	ACC DPR	Not Required		+ +				_
			in the second							111					0.01				111 3 3 5 5		AMENTO		1.5.1			11111		1.000						
HARMINDER	Bi	webers	SW CORNER OF KILKENN RD AND BYRNES RD	Y	M DEN	01E 0	08 3/5/2023	315 P	M 3001-0	ALMON	D No	110.0000 ACRES	2935-50152-AA	TRIFOL	True	1.1000 Gallon	110.0000 AC	ORES Aircra	FARM AIR FLYING SRVC LLC	CA			13049853		3/8/202	1:03 PM	OK SUB	Not Required						
		1112	1000			-	-		111				1.200					1			W REGORD		1			1.1	T	1.000						-
			SW CORNER OF KILKENN	Y				1										1.1	FARM AIR FLYING	40581 PCM 9583	CAMENTO					1.5		1			TRIFLOXYSTROB	1.22	1.1.1.1.	
HARMINDER		weizeni	RD AND BYRNES RD	-	M OBN		08 3/5/2023					110.0000 ACRES		LUNA SENSATION	True	5.5000 Gallon	110.0000 AC		SRVC LLC	40581 PCM 9583		-	13040653	-		1:03 PM		Not Regulard	0 NERT NOREDIEN		5321 N	11,4849 6	5004 FLUOPYRAM	4
HARMINDER	81	desktop	AND BYRNES RD SW CRNR KILKENNY RD AND BYRNES RD SW CRNR KILKENNY RD									180.0000 ACRES			True	1.1800 Gallon	37.8200 AC						055-16-00000317					Not Required	0 INERT INGREDIENT			1.9661	BENDY	-
HARMINDER	#1	desktop	SW CRNR KILKENNY RD	1 1	M DEN	die (	12/9/2017	10:00/	AM 3001-0	ALMON	No No	180 0000 ACRES	62/10-611-AA	SUPER SPREAD	True	7.0000 Gallon 4.7200 Gallon	37 8200 AC 37 8200 AC						055-16-00000317			8 238 PM	ACC DPR		0 NERT INGREDIENT	8 30,0432	1973 OXYFLUORFEN	27.3642 5	SEE PENOXSULAM	f
HARMINDER	D1		AND BYRNES RD																				055-18-00000317											



# NATIONAL PIPELINE MAPPING SYSTEM



### Legend

- Gas Transmission Pipelines
- Hazardous Liquid Pipelines



Pipelines depicted on this map represent gas transmission and hazardous liquid lines only. Gas gathering and gas distribution systems are not represented.

This map should never be used as a substitute for contacting a one-call center prior to excavation activities. Please call 811 before any digging occurs.

Questions regarding this map or its contents can be directed to npms@dot.gov.

Projection: Geographic

Datum: NAD83

Map produced by the Public Viewer application at www.npms.phmsa.dot.gov

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Date Printed: Apr 20, 2023



# **Appendix F** Site Reconnaissance Photographs



**Photo Number 1**. The entrance to the subject property from Byrnes Road near the intersection of Byrnes Road and Kilkenny Road (facing north).



Photo Number 2. Facing south across the cultivated grass field of the subject property.



**Photo Number 3.** Irrigation canal along the northern border of the subject property (facing east).



**Photo Number 4.** Roadside ditch along the eastern border of the subject property (facing south).





Photo Number 5. Short channel in the northwestern corner of the subject property (facing north).



Photo Number 7. Transmission lines on the western border of the eastern-adjoining property (facing north).



Photo Number 6. Valve and wood pallets in the northwestern corner of the subject property.



**Photo Number 8.** North adjoining residence with transmission lines and a pole-mounted transformer.





Photo Number 9. North-adjoining residence and shed across Kilkenny Road.



Photo Number 11. Unidentified AST on the northern boundary of the property west-adjoining the subject property.



Photo Number 10. An orchard adjoining the subject property to the west.

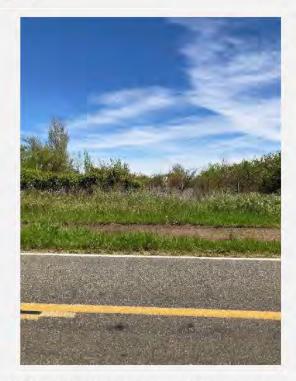


Photo Number 12. Property east of the subject property, hidden by vegetation.





Photo Number 13. Fallow land adjoining the subject property to the east.



Photo Number 14. Cultivated grass field adjoining the subject property to the south (facing west).

# **Appendix G** Historical Aerial Photographs

## **Corby BESS**

Not Reported Vacaville, CA 95687

Inquiry Number: 7291635.8 March 27, 2023

## **The EDR Aerial Photo Decade Package**



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edmet.com

## EDR Aerial Photo Decade Package

#### Site Name:

#### **Client Name:**

03/27/23

Corby BESS Not Reported Vacaville, CA 95687 EDR Inquiry # 7291635.8 DUDEK 605 Third Street Encinitas, CA 92024 Contact: Susan Smith



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

#### Search Results:

	112		
Year	Scale	Details	Source
		the second s	the second s
2020	1"=500'	Flight Year: 2020	USDA/NAIP
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1993	1"=500'	Acquisition Date: June 16, 1993	USGS/DOQQ
1984	1"=500'	Flight Date: June 08, 1984	USDA
1974	1"=500'	Flight Date: July 12, 1974	USGS
1968	1"=500'	Flight Date: May 28, 1968	USGS
1952	1"=500'	Flight Date: August 02, 1952	USDA
1937	1"=500'	Flight Date: August 25, 1937	USDA

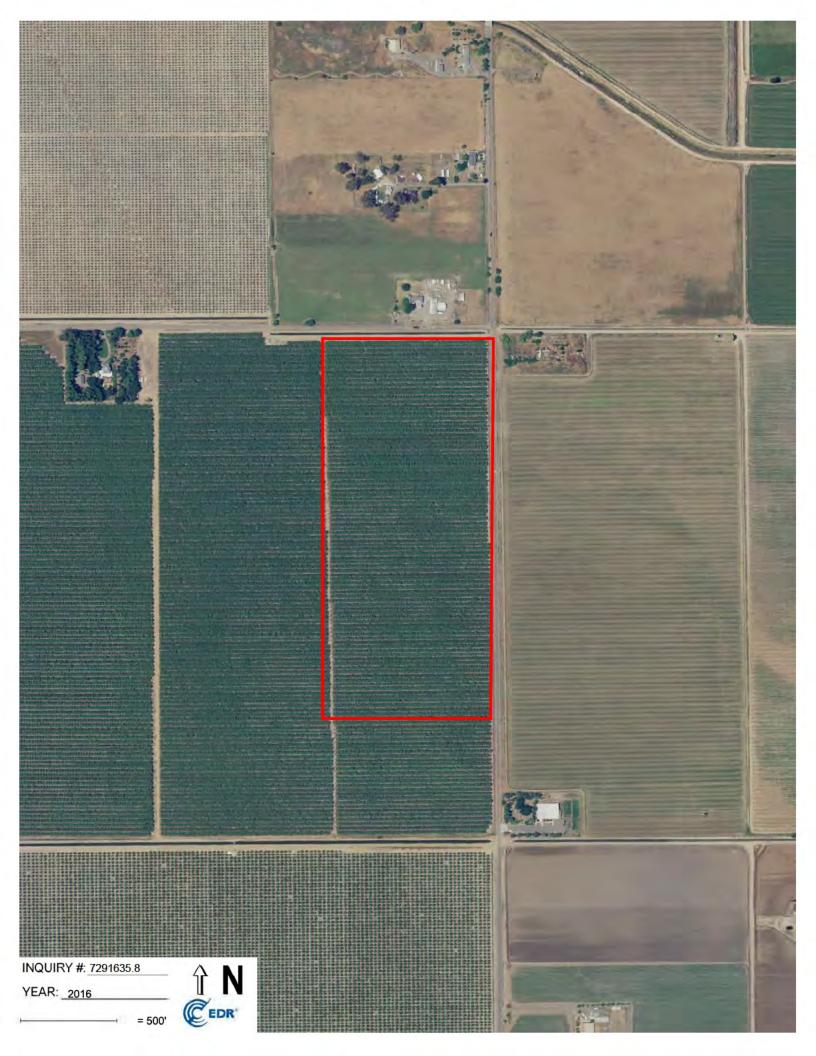
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# **Appendix H** Certified Sanborn Map Report

Corby BESS Not Reported Vacaville, CA 95687

Inquiry Number: 7291635.3 March 27, 2023

# **Certified Sanborn® Map Report**



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

Certified Sanborn® Map Report		03/27/23
Site Name:	Client Name:	
Corby BESS	DUDEK	a
Not Reported	605 Third Street	
Vacaville, CA 95687	Encinitas, CA 92024	e
EDR Inquiry # 7291635.3	Contact: Susan Smith	
		A REAL PROPERTY OF A REAL PROPER

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by DUDEK were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edmet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

#### Certified Sanborn Results:

Certification # 227F-4256-9BC7

PO # 13946.47

Project Corby BESS

#### UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results Certification #: 227F-4256-9BC7

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

Library of Congress

University Publications of America

EDR Private Collection

The Sanborn Library LLC Since 1866™

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# **Appendix I** City Directory Report

Corby BESS Not Reported Vacaville, CA 95687

Inquiry Number: 7291635.5 March 30, 2023

# The EDR-City Directory Image Report



6 Armstrong Road Shelton, CT 06484 800.352.0050 www.edrnet.com

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#### SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business. Please contact EDR at 1-800-352-0050 with any questions or comments.

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### **EXECUTIVE SUMMARY**

#### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

#### RECORD SOURCES

The EDRCity Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk,Cole, Bresser, and Stewart. Listings marked as EDRDigital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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#### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	Cross Street	Source
2020		$\checkmark$	EDR Digital Archive
2017		$\checkmark$	ColeInformation
2014		$\checkmark$	ColeInformation
2010		$\checkmark$	ColeInformation
2005		$\checkmark$	ColeInformation
2000		$\checkmark$	ColeInformation
1995		$\checkmark$	ColeInformation
1992		$\checkmark$	ColeInformation
1986		$\checkmark$	Haines Criss-Cross Directory
1981		$\checkmark$	Haines Criss-Cross Directory
1977			Haines Criss-Cross Directory

### FINDINGS

#### TARGET PROPERTY STREET

Not Reported Vacaville, CA 95687

No Addresses Found

## FINDINGS

### CROSS STREETS

CD Image

Year

2	
pg.A1	EDR Digital Archive
pg.A3	Cole Information
pg.A5	Cole Information
pg.A7	Cole Information
pg_A9	Cole Information
pg.A11	Cole Information
pg. A13	Cole Information
pg. A15	Cole Information
pg. A17	Haines Criss-Cross Directory
pg. A19	Haines Criss-Cross Directory
pg. A21	Haines Criss-Cross Directory
	pg. A1 pg. A3 pg. A5 pg. A7 pg. A9 pg. A11 pg. A13 pg. A15 pg. A17 pg. A19

Source

### KILKENNY RD

2020	pg.A2	EDR Digital Archive
2017	pg.A4	Cole Information
2014	pg.A6	Cole Information
2010	pg.A8	Cole Information
2005	pg. A10	Cole Information
2000	pg. A12	Cole Information
1995	pg. A14	Cole Information
1992	pg. A16	Cole Information
1986	pg. A18	Haines Criss-Cross Directory
1981	pg. A20	Haines Criss-Cross Directory
1977		Haines Criss-Cross Directory

Target and Adjoining notlisted in Source

**City Directory Images** 

-

## BYRNES RD 2020

6267	
0070	
6279	
6285	
6389	
	PERFORMANCE HEATING & AIR COND
	TEMPERATURES UNLIMITED
6418	
6404	MARTIN VERDIN MABREY SCOTT
6494	
6550	
6553	
0505	
6565	
0507	
6587	
6647	DONNIE HUFFMAN HAYLEY MENDENHALL
0047	JESSE MENDENHALL
	JOSEPH MENDENHALL
CCEO	ELENI BOUZOS
6659	VASILIOS BOUZOS
0007	
6697	DEMETRI BOUZOS
	DIONISIOS BOUZOS EVA BOUZOS
	M BOUZOS
0740	MEL BOUZOS
6718	HONEY BEES GENETICS
6723	A1 OVERHEAD HENNER TANK LINES
6740	ANN NIELSON
6740	BRETT NIELSON
	MACY NIELSON
	MACTINELSON
	MATTHEW NIELSON
6796	GOLD KEY PROPERTY LLC
6957	BRIAN KEATING
6957	GAROLD MCKINNEY
	JOHN PENDLETON
	MELISSA MCKINNEY
	TERRI MCKINNEY
6991	CAMERON WILDER
0991	

-

Source EDR Digital Archive

## KILKENNY RD 2020

5310 LINDA GELLER MAX GELLER MICHAEL GELLER
5405 DEANNA COLE MADISON COLE MATHEW COLE TED COLE -

## BYRNES RD 2017

6267	MATA, GILBERTO D
6279	MATA, DIANA M
6285	DYE, THOMAS J
6389	TEMPERATURES UNLIMITED
6460	VERDIN, MARTIN
6494	SCOTT, MABREY
6553	MORENO, ANA
	ROMO, JOSE A
6587	HUFFMAN, DONNIE J
6647	LUPORINI, LARRY E
6653	SEPS PRO FISHING INC
	VANSISTINE, ALISSA
6659	BOUZOS, MEL M
6687	ROSENBERGER, ROBERT E
6718	HONEY BEES GENETICS
6796	KORR BIOSCIENCE CORP
6957	MCKINNEY, THERESA L

Cross Street ✓ Source Cole Information

## KILKENNY RD 2017

5310 GELLER, MICHAEL C

-

5405 COLE, MATHEW P

-



Source Cole Information

## BYRNES RD 2014

6267 6279 6285 6389	MATA, GILBERTO D OCCUPANT UNKNOWN, DYE, THOMAS J PERFORMANCE HEATING & AIR CONDITIONI
6418	VERDIN, MARTIN
6441	OCCUPANT UNKNOWN,
6460	VOGEL, JOHN T
6494	SCOTT, MABREY A
6553	OCCUPANT UNKNOWN,
	REYES, RUBY D
	STRAUB, DWAYNE
6565	HUNT, JEFF J
6587	HUFFMAN, DONNIE J
6647	BOUZOS, DIONISIOS V
6653	OCCUPANT UNKNOWN,
6687	ROSENBERGER, ROBERT E
6697	BOUZOS REALTY
6718	HONEY BEES GENETICS
6723	AVEZZANO, GUY V
	GUY, V A
	OCCUPANT UNKNOWN,
	PRICE, SEAN A
6740	NEILSON, MATT J
6796	KORR BIOSCIENCE CORP
6957	MCKINNEY, SUSAN L
	PAYNE, ANNA F
6975	OCCUPANT UNKNOWN,
6991	OCCUPANT UNKNOWN,
7028	OCCUPANT UNKNOWN,

Cross Street ✓ Source Cole Information

## KILKENNY RD 2014

5310 GELLER, MICHAEL C

-

5405 COLE, MATHEW P

-

## BYRNES RD 2010

6267	PENA, VICTOR H
6279	OCCUPANT UNKNOWN,
6285	DYE, THOMAS J
6418	OCCUPANT UNKNOWN,
6441	HENNAGIN, DENNIS W
6460	VERDIN, MARTIN
6494	SCOTT, MALCOLM C
6553	MCDONALD, CHAD M
6565	VIOLA, OWEN T
6587	HUFFMAN, DONNIE J
6647	BOUZOS, DIONISIOS V
6653	MACIEL, MANUEL P
6659	OCCUPANT UNKNOWN,
6687	ROSENBERGER, ROBERT E
6697	BOUZOS REALTY
	OCCUPANT UNKNOWN,
6718	HONEY BEE GENETICS
6723	PRICE, SEAN A
6740	NEILSON, MATT J
6796	SYNDER INC
6957	MCKINNEY, JEFFREY B
	PAYNE, ANNA F
6975	OCCUPANT UNKNOWN,
6991	WILDER, CAMERON S
7028	HICKMAN, CORTNEY M

Cross Street ✓ Source Cole Information

## KILKENNY RD 2010

5310 GELLER, MICHAEL C

-

5405 COLE, MATHEW P

\_

## BYRNES RD 2005

6267 OCCUPANT UNKNOWN, 6279 OCCUPANT UNKNOWN, 6285 DYE, PHYLLIS 6418 OCCUPANT UNKNOWN, 6460 LOPEZ, ROGELIO 6494 SCOTT, MALCOLM C 6553 HERRERA, IRENE OCCUPANT UNKNOWN, WRIGHT, RICHARD M 6565 RUBIO, VIDAL 6587 HUFFMAN, DONNIE J 6647 OCCUPANT UNKNOWN, 6659 OCCUPANT UNKNOWN, 6687 OCCUPANT UNKNOWN, 6718 HONEY BEE GENETICS 6723 CUBICLE CITY 6740 NEILSON, MATT 6796 SYNDER BIOTECH INC 6957 MCKINNEY, GAROLD R 6975 MEHLHAFF, JAMES A 6991 DIAZ, SIMON B 7028 HICKMAN THOROUGHBRED HICKMAN THOROUGHBREDS OCCUPANT UNKNOWN,

Cross Street ✓ Source Cole Information

## KILKENNY RD 2005

5310 GELLER, MICHAEL C 5405 COLE, TED P

-

Target Street

-

## BYRNES RD 2000

6389	JC AERO SUPPLY
	YOUNG, DEL
6399	HENNAGIN, DENNIS W
6441	SAWTELLE, ETHEL E
6460	LOPEZ, ROGELIO
6565	FREEMAN, JAMES
6587	ASCHER, ADAM
6647	OCCUPANT UNKNOWN,
6687	SWANSON, JOYCE A
6718	HONEY BEE GENETICS
	TABERS HONEY BEE GENETICS
6796	SYNDER FILTRATION
	SYNDER INCORPORATED CALSEP DIVISION
6957	MCKINNEY, GAROLD R
6975	MELHAFF, JAMES

Target Street

-

Cross Street ✓ Source Cole Information

## KILKENNY RD 2000

5405 COLE ELECTRIC

-

## BYRNES RD 1995

6285 6389	M M PRODUCTIONS CALIFORNIA VEGETABLE INC CATALAN AG ENTERPRISES ELMIRA FARMING CO OCCUPANT UNKNOWNN
6399	OCCUPANT UNKNOWNN
6441	ABEYTA, ROSE
	DENTON, CARL
	GONZALEZ, DANIEL M
6460	ANDERSON PHOTOGRAPHY
	ANDERSON, JOHN
6553	OCCUPANT UNKNOWNN
6565	FREEMAN, JAMES
6587	ASCHER, BRUNO
6647	OCCUPANT UNKNOWNN
6687	SWANSON, JOYCE A
6718	NICE PLANTS
6723	KINARD, MARILYN
6796	SYNDER INC
6957	OCCUPANT UNKNOWNN
6975	MELHAFF, ART

Target Street

-

Cross Street ✓ Source Cole Information

## KILKENNY RD 1995

5405 COLE ELECTRIC COLE, TED -

## BYRNES RD 1992

6267	PERFETTO, MIKE
6389	CA VEGETABLE SPLTYS
	CATALAN AG ENTPRS
	LUM&YOUNG FARMS
	VERA, MARIA C
6441	DENTON, CARL
6460	ANDERSON JOHN
	ANDERSON, JOHN
6565	FREEMAN, JAMES
6587	ASCHER, BRUNO
6647	LARSON, LAVAR
6718	NICE PLANTS
6796	SYNDER INC
6975	MELHAFF, ART

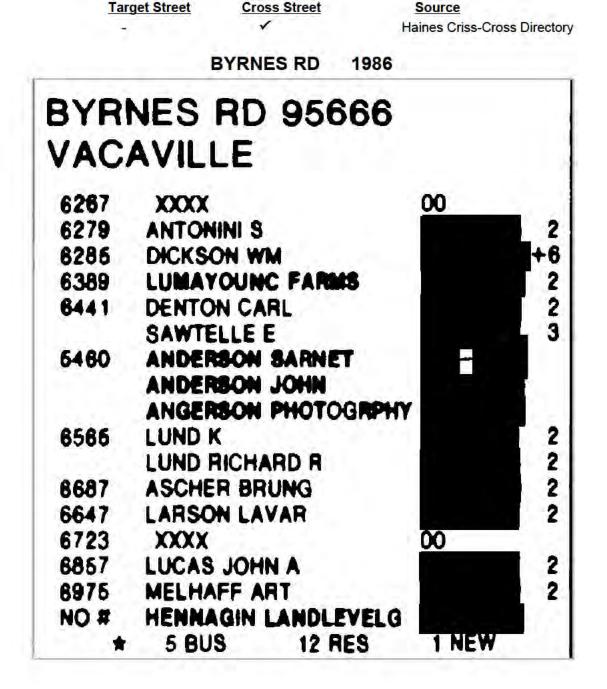
Target Street

-

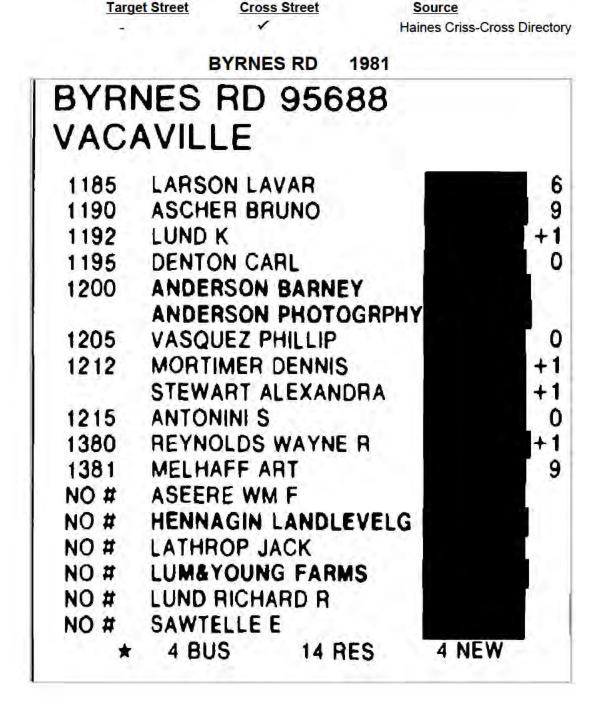
Cross Street ✓ Source Cole Information

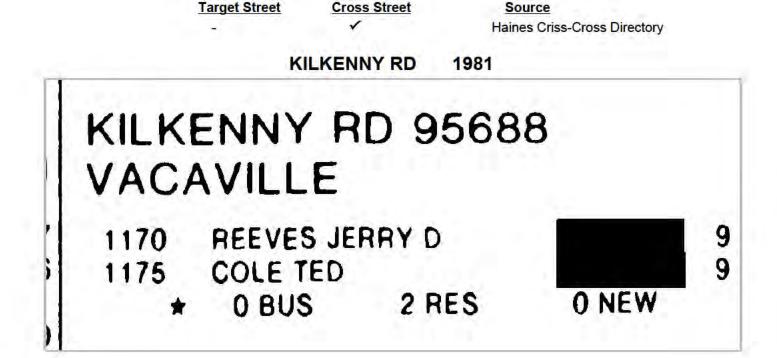
## KILKENNY RD 1992

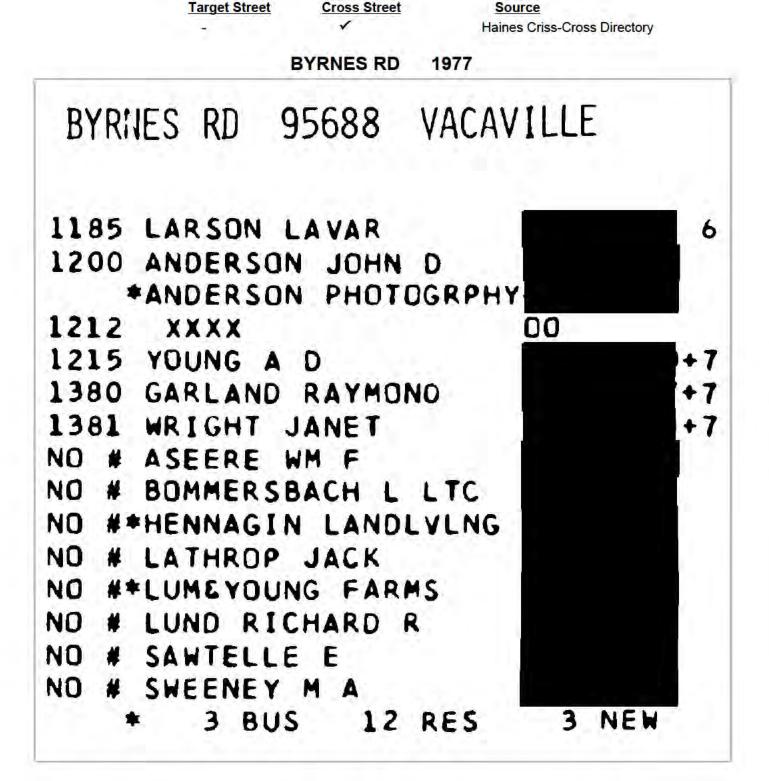
5405 COLE ELECTRIC COLE, TED



	Target Street	Cross Street	<u>S</u>	ource	
	-	1	Hai	nes Criss-Cross Directory	
	K	ILKENNY RD	1986		
KILK	FNNY	RD G	9568	28	- 1
1 X 1 100 1 X		110	3000	0	1
VAC		F			
110					
5310	XXXX			00	e. 1
				~	1.1
5405	COLE TI	ED			2
*	0 BUS	21	RES	O NEW	13







# **Appendix J** Vapor Encroachment Condition Report

## Corby BESS

Not Reported Vacaville, CA 95687

Inquiry Number: 7291635.2s April 20, 2023

# **EDR Vapor Encroachment Screen**

Prepared using EDR's Vapor Encroachment Worksheet



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edmet.com

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Primary Map	2
Secondary Map	3
Map Findings	4
Record Sources and Currency	GR-1

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A search of available environmental records was conducted by EDR. The report was designed to assist parties seeking to meet the search requirements of the ASTM Standard Practice for Assessment of Vapor Encroachment into Structures on Property Involved in Real Estate Transactions (E 2600).

STANDARD ENVIRONMENTAL RECORDS	Default Area of Concern (Miles)*	property	1/10	> 1/10
Lists of Federal NPL (Superfund) sites	1.0	0	0	0
Lists of Federal Delisted NPL sites	1.0	0	0	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders	0.5	0	0	0
Lists of Federal CERCLA sites with NFRAP	0.5	0	0	0
Lists of Federal RCRA facilities undergoing Corrective Action	1.0	0	0	0
Lists of Federal RCRA TSD facilities	0.5	0	0	0
Lists of Federal RCRA generators	0.25	0	0	0
Federal institutional controls / engineering controls registries	0.5	0	0	0
Federal ERNS list	0.001	0	0	-
Lists of state- and tribal (Superfund) equivalent sites	1.0	0	0	0
Lists of state- and tribal hazardous waste facilities	1.0	0	0	0
Lists of state and tribal landfills and solid waste disposal facilities	0.5	0	0	0
Lists of state and tribal leaking storage tanks	0.5	0	0	0
Lists of state and tribal registered storage tanks	0.25	0	0	0
State and tribal institutional control / engineering control registries	not searched	-	-	-
Lists of state and tribal voluntary cleanup sites	0.5	0	0	0
Lists of state and tribal brownfield sites	0.5	0	0	0

#### ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists	0.5	0	0	0
Local Lists of Landfill / Solid Waste Disposal Sites	0.5	0	0	0
Local Lists of Hazardous waste / Contaminated Sites	1.0	0	0	0
Local Lists of Registered Storage Tanks	0.25	0	0	0
Local Land Records	0.5	0	0	0
Records of Emergency Release Reports	0.5	0	0	0
Other Ascertainable Records	1.0	0	0	0

#### EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records	1.0	0	0	0	
Exclusive Recovered Govt. Archives	0.001	0	0	-	

#### EDR RECOVERED GOVERNMENT ARCHIVES

EDR Exclusive Records	1.0	0	0	0	
Exclusive Recovered Govt. Archives	0.001	0	0	-	

\*The Default Area of Concern may be adjusted by the environmental professional using experience and professional judgement. Each category may include several databases, and each database may have a different distance. A list of individual databases is provided at the back of this report.

#### TARGET PROPERTY INFORMATION

#### ADDRESS

CORBY BESS NOT REPORTED VACAVILLE, CA 95687

#### COORDINATES

Latitude (North):	38.392465 - 38° 23′ 32.869263″
Longitude (West):	121.907489 - 121° 54′ 26.949463″
Elevation:	78 ft. above sea level

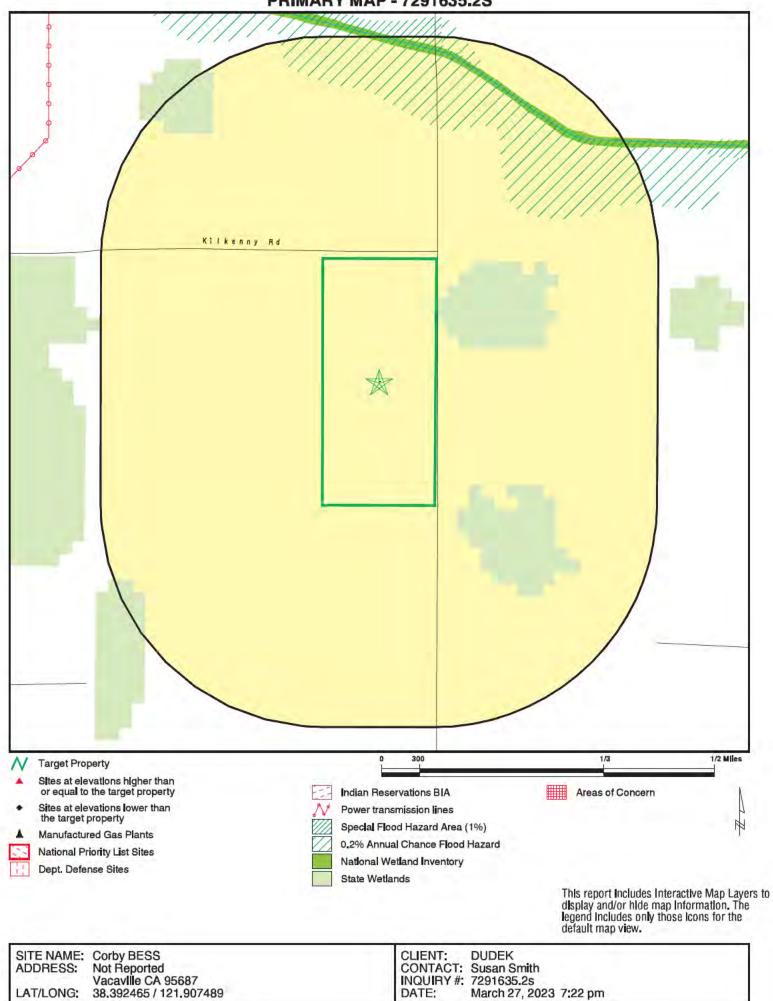
#### SEARCH RESULTS

Unmappable (orphan) sites are not considered in the foregoing analysis.

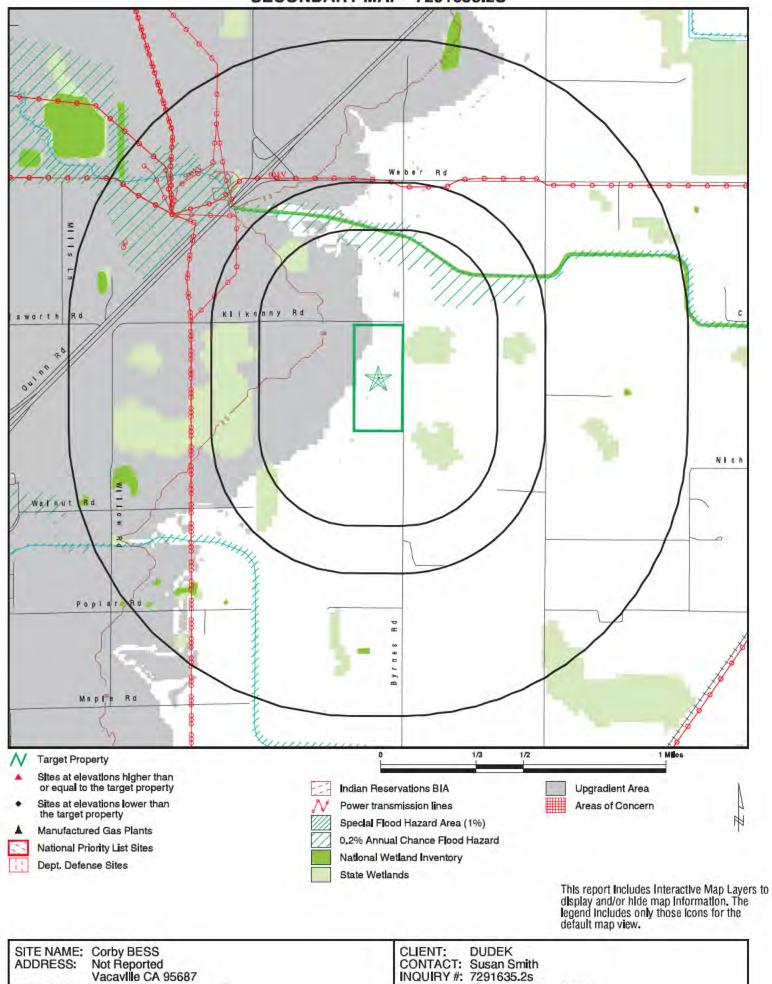
### STANDARD ENVIRONMENTAL RECORDS

Name	Address	Dist/Dir	Map ID	Page
Not Reported				
ADDITIONAL ENVIRONMENTAL RECORDS				
Name	Address	Dist/Dir	Map ID	Page
Not Reported				
EDR HIGH RISK HISTORICAL RECORDS				
Name	Address	Dist/Dir	Map ID	Page
Not Reported				
EDR RECOVERED GOVERNMENT ARCHIVES				
Name	Address	Dist/Dir	Map ID	Page
Not Reported				

#### PRIMARY MAP - 7291635.2S



#### SECONDARY MAP - 7291635.2S



LAT/LONG:

38.392465 / 121.907489

March 27, 2023 7:21 pm Copyright © 2023 EDR, Inc. © 2015 TomTom Rel. 2015.

DATE:

#### LEGEND

FACILITY NAME FACILITY ADDRE	SS, CITY, ST, ZIP		EDR SITE ID NUMBER
♦ MAP ID#	Direction Distance Range Relative Elevation	(Distance feet / miles) Feet Above Sea Level	ASTM 2600 Record Sources found in this report. Each database searched has been assigned to one or more categories. For detailed information about categorization, see the section of the report Records Searched and Currency.
Worksheet:			

Comments:

Comments may be added on the online Vapor Encroachment Worksheet.

DATABASE ACRONYM: Applicable categories (A hoverbox with database description).

St Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
ENVIRONMENTAL RECORDS					
Federal NPL site list US NPL US Proposed NPL US NPL LIENS	National Priority List Proposed National Priority List Sites Federal Superfund Liens	EPA EPA EPA	01/25/2023 01/25/2023 10/15/1991	02/03/2023 02/02/2023 02/02/1994	02/28/2023 02/28/2023 03/30/1994
Federal CERCLIS list US SEMS	Superfund Enterprise Management System	EPA	01/25/2023	02/02/2023	02/28/2023
Federal RCRA CORRACTS facilities li US CORRACTS	st Corrective Action Report	EPA	03/06/2023	03/09/2023	03/20/2023
Federal RCRA TSD facilities list US RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	03/06/2023	03/09/2023	03/20/2023
Federal RCRA generators list US RCRA-LQG US RCRA-SQG US RCRA-VSQG	RCRA - Large Quantity Generators RCRA - Small Quantity Generators RCRA - Very Small Quantity Generators (Formerly Conditionall	Environmental Protection Agency Environmental Protection Agency Environmental Protection Agency	03/06/2023 03/06/2023 03/06/2023	03/09/2023 03/09/2023 03/09/2023	03/20/2023 03/20/2023 03/20/2023
Federal institutional controls / engine US LUCIS US US ENG CONTROLS US US INST CONTROLS	ering controls registries Land Use Control Information System Engineering Controls Sites List Institutional Controls Sites List	Department of the Navy Environmental Protection Agency Environmental Protection Agency	11/02/2022 10/27/2022 10/27/2022	11/08/2022 11/16/2022 11/16/2022	01/10/2023 02/09/2023 02/09/2023
Federal ERNS list US ERNS	Emergency Response Notification System	National Response Center, United States Coast	12/12/2022	12/14/2022	12/19/2022
State and tribal - equivalent NPL CA RESPONSE	State Response Sites	Department of Toxic Substances Control	10/24/2022	10/24/2022	01/12/2023
State and tribal - equivalent CERCLIS CA ENVIROSTOR	EnviroStor Database	Department of Toxic Substances Control	10/24/2022	10/24/2022	01/12/2023
State and tribal landfill / solid waste d CA SWF/LF (SWIS)	l <b>isposal</b> Solid Waste Information System	Department of Resources Recycling and Recover	11/03/2022	11/03/2022	01/25/2023
State and tribal leaking storage tank I CA LUST REG 3 CA LUST REG 4 CA LUST REG 6L CA LUST REG 7 CA LUST REG 8 CA LUST REG 9 CA LUST	ists Leaking Underground Storage Tank Database Underground Storage Tank Leak List Leaking Underground Storage Tank Case Listing Leaking Underground Storage Tanks Leaking Underground Storage Tank Report Leaking Underground Fuel Tank Report (GEOTRACKER)	California Regional Water Quality Control Boa California Regional Water Quality Control Boa State Water Resources Control Board	05/19/2003 09/07/2004 09/09/2003 02/26/2004 02/14/2005 03/01/2001 12/02/2022	05/19/2003 09/07/2004 09/10/2003 02/26/2004 02/15/2005 04/23/2001 12/02/2022	06/02/2003 10/12/2004 10/07/2003 03/24/2004 03/28/2005 05/21/2001 02/22/2023

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
	LUST REG 2	Fuel Leak List	California Regional Water Quality Control Boa	09/30/2004	10/20/2004	11/19/2004
CA	LUST REG 1	Active Toxic Site Investigation	California Regional Water Quality Control Boa	02/01/2001	02/28/2001	03/29/2001
CA	LUST REG 6V	Leaking Underground Storage Tank Case Listing	California Regional Water Quality Control Boa	06/07/2005	06/07/2005	06/29/2005
CA	LUST REG 5	Leaking Underground Storage Tank Database	California Regional Water Quality Control Boa	07/01/2008	07/22/2008	07/31/2008
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	10/19/2022	12/06/2022	03/03/2023
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	11/26/2022	12/06/2022	03/03/2023
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	10/14/2022	12/06/2022	03/03/2023
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	11/23/2022	12/06/2022	03/03/2023
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	11/23/2022	12/06/2022	03/03/2023
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	10/14/2022	12/06/2022	03/03/2023
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	11/23/2022	12/06/2022	03/03/2023
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	04/20/2022	06/13/2022	08/16/2022
CA	CPS-SLIC	Statewide SLIC Cases (GEOTRACKER)	State Water Resources Control Board	12/02/2022	12/02/2022	02/22/2023
CA	SLIC REG 1	Active Toxic Site Investigations	California Regional Water Quality Control Boa	04/03/2003	04/07/2003	04/25/2003
CA	SLIC REG 2	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Regional Water Quality Control Board San Fran	09/30/2004	10/20/2004	11/19/2004
CA	SLIC REG 3	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	California Regional Water Quality Control Boa	05/18/2006	05/18/2006	06/15/2006
CA	SLIC REG 4	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Region Water Quality Control Board Los Angele	11/17/2004	11/18/2004	01/04/2005
CA	SLIC REG 5	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Regional Water Quality Control Board Central	04/01/2005	04/05/2005	04/21/2005
CA	SLIC REG 6V	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Regional Water Quality Control Board, Victorv	05/24/2005	05/25/2005	06/16/2005
CA	SLIC REG 6L	SLIC Sites	California Regional Water Quality Control Boa	09/07/2004	09/07/2004	10/12/2004
CA	SLIC REG 7	SLIC List	California Regional Quality Control Board, Co	11/24/2004	11/29/2004	01/04/2005
CA	SLIC REG 8	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	California Region Water Quality Control Board	04/03/2008	04/03/2008	04/14/2008
CA	SLIC REG 9	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	California Regional Water Quality Control Boa	09/10/2007	09/11/2007	09/28/2007
Stat	and tribal registered storage ten	k liata				
	te and tribal registered storage tan UST	Active UST Facilities	SWRCB	12/02/2022	12/02/2022	02/22/2023
	UST CLOSURE	Proposed Closure of Underground Storage Tank (UST) Cases	State Water Resources Control Board	11/28/2022	12/02/2022	02/23/2023
CA		Military UST Sites (GEOTRACKER)	State Water Resources Control Board	12/02/2022	12/02/2022	02/21/2023
	AST	Aboveground Petroleum Storage Tank Facilities	California Environmental Protection Agency	07/06/2016	07/12/2016	09/19/2016
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	10/14/2022	12/06/2022	03/03/2023
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	11/23/2022	12/06/2022	03/03/2023
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	11/23/2022	12/06/2022	03/03/2023
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	10/19/2022	12/06/2022	03/03/2023
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	11/23/2022	12/06/2022	03/03/2023
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	11/23/2022	12/06/2022	03/03/2023
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	10/14/2022	12/06/2022	03/03/2023
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	04/20/2022	06/13/2022	08/16/2022
	FEMA UST	Underground Storage Tank Listing	FEMA	10/14/2021	11/05/2021	02/01/2022
Stat	e and tribal voluntary cleanup site					
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
CA		Voluntary Cleanup Program Properties	Department of Toxic Substances Control	10/24/2022	10/24/2022	01/12/2023
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
Stat	te and tribal Brownfields sites					
	BROWNFIELDS	Considered Brownfieds Sites Listing	State Water Resources Control Board	12/14/2022	12/14/2022	03/07/2023
		u u u u u u u u u u u u u u u u u u u				
Oth	er Records					
US		Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	09/30/2022	10/21/2022	01/10/2023
US	ROD	Records Of Decision	EPA	01/25/2023	02/02/2023	02/28/2023
	LIENS 2	CERCLA Lien Information	Environmental Protection Agency		02/02/2023	
CA	HIST CAL-SITES	Calsites Database	Department of Toxic Substance Control	08/08/2005		
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009		
CA	SWRCY	Recycler Database	Department of Conservation		12/02/2022	02/22/2023
	CA FID UST	Facility Inventory Database	California Environmental Protection Agency		09/05/1995	
CA		Hazardous Substance Storage Container Database	State Water Resources Control Board		01/25/1991	
	SAN FRANCISCO AST	Aboveground Storage Tank Site Listing	San Francisco County Department of Public Hea		11/07/2022	
CA	SWEEPS UST	SWEEPS UST Listing	State Water Resources Control Board		07/07/2005	08/11/2005
	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health		10/27/2010	
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	07/26/2021		10/22/2021
	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA		10/26/2016	
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy		11/30/2021	
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency		02/03/2023	
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	01/06/2023		
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency		05/08/2018	
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency		11/06/2019	
	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency		12/14/2022	
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013		06/17/2014
US	US AIRS MINOR	Air Facility System Data	EPA		10/26/2016	
US		Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	01/12/2017		
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	01/25/2023		
US		National Priority List Deletions	EPA	01/25/2023		
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	01/25/2023		
US	RCRA NonGen / NLR HMIRS	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency U.S. Department of Transportation	03/06/2023	03/09/2023 12/14/2022	
US	DOT OPS	Hazardous Materials Information Reporting System			01/28/2022	03/10/2023 04/17/2020
US US	US CDL	Incident and Accident Data	Department of Transporation, Office of Pipeli Drug Enforcement Administration	01/02/2020 01/06/2023	01/28/2020	02/10/2023
US	US BROWNFIELDS	Clandestine Drug Labs A Listing of Brownfields Sites	Environmental Protection Agency	01/00/2023		
US	DOD	Department of Defense Sites	USGS	06/07/2021	07/13/2022	03/09/2022
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	04/02/2018		
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers		11/10/2022	
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy		11/15/2019	
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A		11/17/2022	
US	MINES VIOLATIONS	MSHA Violation Assessment Data	DOL, Mine Safety & Health Admi	02/27/2023	03/01/2023	03/24/2023
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	05/06/2020		08/13/2020
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011		
US	PRP	Potentially Responsible Parties	EPA		11/01/2022	
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2021	11/01/2022	02/09/2023
		Toxic Substances Control Act	EPA	12/31/2020		

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	SSTS	Section 7 Tracking Systems	EPA	10/17/2022	10/18/2022	01/10/2023
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	PADS	PCB Activity Database System	EPA	01/20/2022	01/20/2022	03/25/2022
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	10/26/2022	11/22/2022	12/05/2022
US	RADINFO	Radiation Information Database	Environmental Protection Agency	07/01/2019	07/01/2019	09/23/2019
US	FINDS	Facility Index System/Facility Registry System	EPA	02/02/2023	02/28/2023	03/24/2023
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RMP	Risk Management Plans	Environmental Protection Agency	04/27/2022	05/04/2022	05/10/2022
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2021	03/09/2023	03/20/2023
US	PWS	Public Water System Data	EPA	12/17/2013	01/09/2014	10/15/2014
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Serivces, Indian	04/01/2014	08/06/2014	01/29/2015
US	ABANDONED MINES	Abandoned Mines	Department of Interior	12/20/2022	12/20/2022	03/10/2023
CA	CA BOND EXP. PLAN	Bond Expenditure Plan	Department of Health Services	01/01/1989	07/27/1994	08/02/1994
CA	CDL	Clandestine Drug Labs	Department of Toxic Substances Control	12/31/2020	11/30/2022	02/09/2023
CA	CHMIRS	California Hazardous Material Incident Report System	Office of Emergency Services	08/02/2022	10/17/2022	01/04/2023
CA	CORTESE	"Cortese" Hazardous Waste & Substances Sites List	CAL EPA/Office of Emergency Information	12/14/2022	12/14/2022	03/07/2023
CA	CUPA LIVERMORE-PLEASANTON	CUPA Facility Listing	Livermore-Pleasanton Fire Department	12/07/2021	05/09/2022	05/17/2022
CA	DEED	Deed Restriction Listing	DTSC and SWRCB	11/28/2022	11/29/2022	02/13/2023
CA	DRYCLEAN AVAQMD	Antelope Valley Air Quality Management District Drycleaner L	Antelope Valley Air Quality Management Distri	11/14/2022	11/14/2022	02/01/2023
CA	DRYCLEAN SOUTH COAST	South Coast Air Quality Management District Drycleaner Listi	South Coast Air Quality Management District	11/17/2022	11/30/2022	02/14/2023
CA	DRYCLEANERS	Cleaner Facilities	Department of Toxic Substance Control	08/27/2021	09/01/2021	11/19/2021
CA	EMI	Emissions Inventory Data	California Air Resources Board	12/31/2020	06/13/2022	08/30/2022
CA	ENF	Enforcement Action Listing	State Water Resoruces Control Board	10/17/2022	10/19/2022	01/10/2023
CA	Financial Assurance 1	Financial Assurance Information Listing	Department of Toxic Substances Control	10/12/2022	10/12/2022	12/29/2022
CA	Financial Assurance 2	Financial Assurance Information Listing	California Integrated Waste Management Board	11/08/2022	11/23/2022	02/13/2023
CA	HAULERS	Registered Waste Tire Haulers Listing	Integrated Waste Management Board	11/16/2022	11/22/2022	02/13/2023
CA	HAZNET	Facility and Manifest Data	California Environmental Protection Agency	12/31/2021	07/05/2022	09/19/2022
CA	HIST CORTESE	Hazardous Waste & Substance Site List	Department of Toxic Substances Control	04/01/2001	01/22/2009	04/08/2009
CA	HWP	EnviroStor Permitted Facilities Listing	Department of Toxic Substances Control	11/10/2022	11/10/2022	02/01/2023
CA	HWT	Registered Hazardous Waste Transporter Database	Department of Toxic Substances Control	01/03/2023	01/04/2023	03/21/2023
CA	ICE	ICE	Department of Toxic Subsances Control	11/10/2022	11/10/2022	02/01/2023
CA	LDS	Land Disposal Sites Listing (GEOTRACKER)	State Water Quality Control Board	12/02/2022	12/02/2022	02/21/2023
CA	LIENS	Environmental Liens Listing	Department of Toxic Substances Control	02/23/2023	02/24/2023	03/23/2023
CA	MCS	Military Cleanup Sites Listing (GEOTRACKER)	State Water Resources Control Board	12/02/2022	12/02/2022	02/21/2023
CA	MINES	Mines Site Location Listing	Department of Conservation	12/02/2022	12/02/2022	02/22/2023
CA	MWMP	Medical Waste Management Program Listing	Department of Public Health	10/31/2022	11/29/2022	02/14/2023
CA	NPDES	NPDES Permits Listing	State Water Resources Control Board	11/03/2022	11/03/2022	01/25/2023
CA	PEST LIC	Pesticide Regulation Licenses Listing	Department of Pesticide Regulation	11/28/2022	11/29/2022	02/14/2023
CA	PROC	Certified Processors Database	Department of Conservation	12/02/2022	12/02/2022	02/22/2023
CA	NOTIFY 65	Proposition 65 Records	State Water Resources Control Board	12/07/2022	12/07/2022	03/01/2023
CA	SAN JOSE HAZMAT	Hazardous Material Facilities	City of San Jose Fire Department	11/03/2020	11/05/2020	01/26/2021

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CA	-	School Property Evaluation Program	Department of Toxic Substances Control	10/24/2022	10/24/2022	01/12/2023
CA	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	06/06/2012	01/03/2013	02/22/2013
CA	TOXIC PITS	Toxic Pits Cleanup Act Sites	State Water Resources Control Board	07/01/1995	08/30/1995	09/26/1995
CA	UIC	UIC Listing	Deaprtment of Conservation	12/02/2022	12/02/2022	02/22/2023
CA	WASTEWATER PITS	Oil Wastewater Pits Listing	RWQCB, Central Valley Region	02/11/2021	07/01/2021	09/29/2021
CA	WDS	Waste Discharge System	State Water Resources Control Board	06/19/2007	06/20/2007	06/29/2007
CA	WIP	Well Investigation Program Case List	Los Angeles Water Quality Control Board	07/03/2009	07/21/2009	08/03/2009
CA	WMUDS/SWAT	Waste Management Unit Database	State Water Resources Control Board	04/01/2000	04/10/2000	05/10/2000
CA	PROD WATER PONDS	Produced Water Ponds Sites (GEOTRACKER)	State Water Resources Control Board	12/02/2022	12/02/2022	02/21/2023
CA	SAMPLING POINT	Sampling Point ? Public Sites (GEOTRACKER)	State Water Resources Control Board	12/02/2022	12/02/2022	02/21/2023
CA	CERS TANKS	California Environmental Reporting System (CERS) Tanks	California Environmental Protection Agency	01/06/2023	01/06/2023	01/11/2023
CA	UIC GEO	Underground Injection Control Sites (GEOTRACKER)	State Water Resource Control Board	12/02/2022	12/02/2022	02/21/2023
CA	CERS HAZ WASTE	CERS HAZ WASTE	CalEPA	01/05/2023	01/06/2023	01/11/2023
CA	NON-CASE INFO	Non-Case Information Sites (GEOTRACKER)	State Water Resources Control Board	12/02/2022	12/02/2022	02/21/2023
CA	PROJECT	Project Sites (GEOTRACKER)	State Water Resources Control Board	12/02/2022	12/02/2022	02/21/2023
CA	AQUEOUS FOAM	Former Fire Training Facility Assessments Listing	State Water Resources Control Board	09/06/2022	09/06/2022	10/26/2022
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	12/20/2022	12/21/2022	03/10/2023
US	PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing	Environmental Protection Agency	01/03/2022	03/31/2022	11/08/2022
CA	PFAS	PFAS Contamination Site Location Listing	State Water Resources Control Board	12/02/2022	12/02/2022	02/23/2023
CA	WDR	Waste Discharge Requirements Listing	State Water Resources Control Board	12/02/2022	12/02/2022	02/23/2023
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	11/10/2022		02/09/2023
CA	CIWQS	California Integrated Water Quality System	State Water Resources Control Board	11/28/2022	11/29/2022	02/13/2023
CA	HWTS	Hazardous Waste Tracking System	Department of Toxic Substances Control	04/05/2022	04/05/2022	04/26/2022
CA		CalEPA Regulated Site Portal Data	California Environmental Protection Agency	01/05/2023	01/06/2023	01/10/2023
US	PFAS NPL	Superfund Sites with PFAS Detections Information	Environmental Protection Agency	02/23/2022	07/08/2022	11/08/2022
US	AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing	Environmental Protection Agency	02/23/2022	03/31/2022	11/08/2022
US	PFAS TSCA	PFAS Manufacture and Imports Information	Environmental Protection Agency	01/03/2022	03/31/2022	11/08/2022
US	PFAS ECHO	Facilities in Industries that May Be Handling PFAS Listing	Environmental Protection Agency	01/03/2022	03/31/2022	11/08/2022
US	PFAS FEDERAL SITES	Federal Sites PFAS Information	Environmental Protection Agency	02/23/2022	03/31/2022	11/08/2022
US	PFAS PART 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing	Environmental Protection Agency	08/22/2018	10/26/2022	11/08/2022
US	PFAS ECHO FIRE TRAINING	Facilities in Industries that May Be Handling PFAS Listing	Environmental Protection Agency	08/22/2018	03/31/2022	11/08/2022
	PFAS WQP	Ambient Environmental Sampling for PFAS	Environmental Protection Agency	01/03/2022	03/31/2022	11/08/2022
CA	MILITARY PRIV SITES	Military Privatized Sites (GEOTRACKER)	State Water Resources Control Board	12/02/2022	12/02/2022	02/21/2023
	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	05/06/2021	05/21/2021	08/11/2021
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	09/25/2022	09/30/2022	12/22/2022
US	MINES MRDS	Mineral Resources Data System	USGS	08/23/2022	11/22/2022	02/28/2023
CA		Other Oil & Gas Projects Sites (GEOTRACKER)	State Water Resources Control Board	12/02/2022	12/02/2022	02/21/2023
US	PFAS ATSDR	PFAS Contamination Site Location Listing	Department of Health & Human Services	06/24/2020	03/17/2021	11/08/2022
	PFAS NPDES	Clean Water Act Discharge Monitoring Information	Environmental Protection Agency	01/03/2022	03/31/2022	11/08/2022
US	PFAS TRIS	List of PFAS Added to the TRI	Environmental Protection Agency	03/07/2023	03/07/2023	03/24/2023
US	UXO	Unexploded Ordnance Sites	Department of Defense	11/09/2021	10/20/2022	01/10/2023
CA	WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)	State Water Resources Control Board	12/02/2022	12/02/2022	02/21/2023

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
HIS	TORICAL USE RECORDS					
	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
CA	RGALF	Recovered Government Archive Solid Waste Facilities List	Department of Resources Recycling and Recover		07/01/2013	01/13/2014
	RGALUST	Recovered Government Archive Leaking Underground Storage Tan	State Water Resources Control Board		07/01/2013	
OA	Noneusi	Recovered Government Archive Leaking onderground Storage Tan	State Water Resources control board		01/01/2015	12/30/2013
COL	JNTY RECORDS					
CA		Contaminated Sites	Alameda County Environmental Health Services	01/09/2019	01/11/2019	03/05/2019
CA	UST ALAMEDA	Underground Tanks	Alameda County Environmental Health Services		12/28/2022	03/17/2023
	CUPA AMADOR	CUPA Facility List	Amador County Environmental Health		07/27/2022	
CA	CUPA BUTTE	CUPA Facility Listing	Public Health Department		04/25/2017	
	CUPA CALVERAS	CUPA Facility Listing	Calveras County Environmental Health		12/15/2022	
CA		CUPA Facility List	Health & Human Services	04/06/2020		07/10/2020
	SL CONTRA COSTA	Site List	Contra Costa Health Services Department	10/20/2022		
CA	CUPA DEL NORTE	CUPA Facility List	Del Norte County Environmental Health Divisio	05/04/2022		07/28/2022
	CUPA EL DORADO	CUPA Facility List	El Dorado County Environmental Management Dep	08/08/2022	08/09/2022	09/01/2022
CA	CUPA FRESNO	CUPA Resources List	Dept. of Community Health	06/28/2021	12/21/2021	03/03/2022
	CUPA GLENN	CUPA Facility List	Glenn County Air Pollution Control District	01/22/2018		03/14/2018
CA	CUPA HUMBOLDT	CUPA Facility List	Humboldt County Environmental Health	08/12/2021	08/12/2021	11/08/2021
CA	CUPA IMPERIAL	CUPA Facility List	San Diego Border Field Office	10/11/2022	10/12/2022	12/29/2022
CA	CUPA INYO	CUPA Facility List	Inyo County Environmental Health Services	04/02/2018		06/14/2018
CA	CUPA KERN	CUPA Facility List	Kern County Public Health	10/03/2022		
CA	UST KERN	Underground Storage Tank Sites & Tank Listing	Kern County Environment Health Services Depar	10/03/2022		12/16/2022
CA	CUPA KINGS	CUPA Facility List	Kings County Department of Public Health	12/03/2020	01/26/2021	04/14/2021
CA	CUPA LAKE	CUPA Facility List	Lake County Environmental Health	11/04/2022		01/25/2023
CA	CUPA LASSEN	CUPA Facility List	Lassen County Environmental Health	07/31/2020	08/21/2020	11/09/2020
CA	AOCONCERN	Key Areas of Concerns in Los Angeles County		03/30/2009	03/31/2009	10/23/2009
CA	HMS LOS ANGELES	HMS: Street Number List	Department of Public Works	10/03/2022	10/04/2022	12/15/2022
CA	LF LOS ANGELES	List of Solid Waste Facilities	La County Department of Public Works	01/09/2023	01/10/2023	03/23/2023
CA	LF LOS ANGELES CITY	City of Los Angeles Landfills	Engineering & Construction Division	01/01/2022	01/21/2022	04/11/2022
CA	LOS ANGELES AST	Active & Inactive AST Inventory	Los Angeles Fire Department	06/01/2019	06/25/2019	08/22/2019
CA	LOS ANGELES CO LF METHANE		Los Angeles County Department of Public Works	01/10/2022	01/12/2022	04/04/2022
CA	LOS ANGELES HM	Active & Inactive Hazardous Materials Inventory	Los Angeles Fire Department	11/01/2022	12/14/2022	03/07/2023
CA	LOS ANGELES UST	Active & Inactive UST Inventory	Los Angeles Fire Department	11/01/2022	12/14/2022	03/07/2023
CA	SITE MIT LOS ANGELES	Site Mitigation List	Community Health Services	05/26/2021	07/09/2021	09/29/2021
CA	UST EL SEGUNDO	City of El Segundo Underground Storage Tank	City of El Segundo Fire Department	01/21/2017	04/19/2017	05/10/2017
CA	UST LONG BEACH	City of Long Beach Underground Storage Tank	City of Long Beach Fire Department	04/22/2019	04/23/2019	06/27/2019
CA	UST TORRANCE	City of Torrance Underground Storage Tank	City of Torrance Fire Department	10/18/2022	10/19/2022	01/10/2023
CA	CUPA MADERA	CUPA Facility List	Madera County Environmental Health	08/10/2020	08/12/2020	10/23/2020
CA	UST MARIN	Underground Storage Tank Sites	Public Works Department Waste Management	09/26/2018	10/04/2018	11/02/2018
CA	UST MENDOCINO	Mendocino County UST Database	Department of Public Health	09/22/2021	11/18/2021	11/22/2021
CA	CUPA MERCED	CUPA Facility List	Merced County Environmental Health	02/15/2022	02/17/2022	05/11/2022
CA	CUPA MONO	CUPA Facility List	Mono County Health Department	02/22/2021	03/02/2021	05/19/2021
CA	CUPA MONTEREY	CUPA Facility Listing	Monterey County Health Department	10/04/2021	10/06/2021	12/29/2021
CA	LUST NAPA	Sites With Reported Contamination	Napa County Department of Environmental Manag	01/09/2017	01/11/2017	03/02/2017
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St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CA	UST NAPA	Closed and Operating Underground Storage Tank Sites	Napa County Department of Environmental Manag	09/05/2019	09/09/2019	10/31/2019
CA	CUPA NEVADA	CUPA Facility List	Community Development Agency	10/27/2022	10/27/2022	01/18/2023
CA	IND SITE ORANGE	List of Industrial Site Cleanups	Health Care Agency	05/24/2022	08/09/2022	10/28/2022
CA	LUST ORANGE	List of Underground Storage Tank Cleanups	Health Care Agency	04/08/2022	05/18/2022	08/03/2022
CA	UST ORANGE	List of Underground Storage Tank Facilities	Health Care Agency	05/24/2022	08/01/2022	10/20/2022
CA	MS PLACER	Master List of Facilities	Placer County Health and Human Services	08/26/2022	08/29/2022	11/15/2022
CA	CUPA PLUMAS	CUPA Facility List	Plumas County Environmental Health	03/31/2019	04/23/2019	06/26/2019
CA	LUST RIVERSIDE	Listing of Underground Tank Cleanup Sites	Department of Environmental Health	09/22/2022	09/26/2022	12/09/2022
CA	UST RIVERSIDE	Underground Storage Tank Tank List	Department of Environmental Health	09/22/2022	09/26/2022	12/09/2022
CA	CS SACRAMENTO	Toxic Site Clean-Up List	Sacramento County Environmental Management	11/07/2022	12/21/2022	03/16/2023
CA	ML SACRAMENTO	Master Hazardous Materials Facility List	Sacramento County Environmental Management	11/07/2022	12/09/2022	03/01/2023
CA	CUPA SAN BENITO	CUPA Facility List	San Benito County Environmental Health	10/27/2022	10/28/2022	01/18/2023
CA	PERMITS SAN BERNARDINO	Hazardous Material Permits	San Bernardino County Fire Department Hazardo	11/18/2022	11/21/2022	02/09/2023
CA	HMMD SAN DIEGO	Hazardous Materials Management Division Database	Hazardous Materials Management Division	11/28/2022	11/29/2022	02/14/2023
CA	LF SAN DIEGO	Solid Waste Facilities	Department of Health Services	10/27/2021	03/04/2022	05/31/2022
CA	SAN DIEGO CO LOP	Local Oversight Program Listing	Department of Environmental Health	07/22/2021	10/19/2021	01/13/2022
CA	SAN DIEGO CO SAM	Environmental Case Listing	San Diego County Department of Environmental	03/23/2010	06/15/2010	07/09/2010
CA	CUPA SAN FRANCISCO CO	CUPA Facility Listing	San Francisco County Department of Environmen	11/03/2022	11/07/2022	01/25/2023
CA	LUST SAN FRANCISCO	Local Oversite Facilities	Department Of Public Health San Francisco Cou	09/19/2008	09/19/2008	09/29/2008
CA	UST SAN FRANCISCO	Underground Storage Tank Information	Department of Public Health	11/03/2022	11/07/2022	01/24/2023
CA	SAN FRANCISCO MAHER	Maher Ordinance Property Listing	San Francisco Planning	10/11/2022	10/14/2022	01/04/2023
CA	UST SAN JOAQUIN	San Joaquin Co. UST	Environmental Health Department	06/22/2018	06/26/2018	07/11/2018
CA	CUPA SAN LUIS OBISPO	CUPA Facility List	San Luis Obispo County Public Health Departme	11/08/2022	11/09/2022	02/01/2023
CA	BI SAN MATEO	Business Inventory	San Mateo County Environmental Health Service	02/20/2020	02/20/2020	04/24/2020
CA	LUST SAN MATEO	Fuel Leak List	San Mateo County Environmental Health Service	03/29/2019	03/29/2019	05/29/2019
CA	CUPA SANTA BARBARA	CUPA Facility Listing	Santa Barbara County Public Health Department	09/08/2011	09/09/2011	10/07/2011
CA	CUPA SANTA CLARA	Cupa Facility List	Department of Environmental Health	10/28/2022	11/01/2022	01/20/2023
CA	HIST LUST SANTA CLARA	HIST LUST - Fuel Leak Site Activity Report	Santa Clara Valley Water District	03/29/2005	03/30/2005	04/21/2005
CA	LUST SANTA CLARA	LOP Listing	Department of Environmental Health	03/03/2014	03/05/2014	03/18/2014
CA	CUPA SANTA CRUZ	CUPA Facility List	Santa Cruz County Environmental Health	01/21/2017	02/22/2017	05/23/2017
CA	CUPA SHASTA	CUPA Facility List	Shasta County Department of Resource Manageme	06/15/2017	06/19/2017	08/09/2017
	LUST SOLANO	Leaking Underground Storage Tanks	Solano County Department of Environmental Man	06/04/2019	06/06/2019	08/13/2019
CA	UST SOLANO	Underground Storage Tanks	Solano County Department of Environmental Man	09/15/2021	09/16/2021	12/09/2021
CA	CUPA SONOMA	Cupa Facility List	County of Sonoma Fire & Emergency Services De	07/02/2021	07/06/2021	07/14/2021
CA	LUST SONOMA	Leaking Underground Storage Tank Sites	Department of Health Services	06/30/2021	06/30/2021	09/24/2021
CA	CUPA STANISLAUS	CUPA Facility List	Stanislaus County Department of Ennvironmenta	02/08/2022	02/10/2022	05/04/2022
CA	UST SUTTER	Underground Storage Tanks	Sutter County Environmental Health Services	08/03/2022	08/25/2022	11/14/2022
CA	CUPA TEHAMA	CUPA Facility List	Tehama County Department of Environmental Hea	11/17/2022	11/21/2022	02/10/2023
CA	CUPA TRINITY	CUPA Facility List	Department of Toxic Substances Control	10/11/2022	10/12/2022	12/29/2022
	CUPA TULARE	CUPA Facility List	Tulare County Environmental Health Services D	10/07/2022	10/07/2022	12/21/2022
CA	CUPA TUOLUMNE	CUPA Facility List	Divison of Environmental Health	04/23/2018	04/25/2018	06/25/2018
CA		Business Plan, Hazardous Waste Producers, and Operating Unde	Ventura County Environmental Health Division	09/26/2022	10/19/2022	01/10/2023
	LF VENTURA	Inventory of Illegal Abandoned and Inactive Sites	Environmental Health Division	12/01/2011	12/01/2011	01/19/2012
	LUST VENTURA	Listing of Underground Tank Cleanup Sites	Environmental Health Division	05/29/2008	06/24/2008	07/31/2008
	MED WASTE VENTURA	Medical Waste Program List	Ventura County Resource Management Agency	09/26/2022	10/20/2022	
		Underground Tank Closed Sites List	Environmental Health Division	11/28/2022	12/02/2022	02/23/2023
CA	UST YOLO	Underground Storage Tank Comprehensive Facility Report	Yolo County Department of Health	12/19/2022	12/27/2022	03/17/2023

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CA	CUPA YUBA	CUPA Facility List	Yuba County Environmental Health Department	10/25/2022	10/26/2022	10/31/2022

#### STREET AND ADDRESS INFORMATION

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Permit Use R	Report Permitee	Violation Permit	Site ID Site Location	Township Ran	nge Section	Application Date	Commodity Pre-plant	Planted Amount	Planted Units	EPA Reg No	Product Name	RMP	Quantity Used	Quantity Units T	reated Amount   Tre	ated Units Appl. Metho	od Applicator Name	Applicator License # Applicator License Ty	be Applicator Address Days Reentry Days Pre-Har	vest Document	# Submitted By Submitted	Date Entered By	Time Stamp Date	Time Stamp Ti	me Rpt Status	Sub Status School Notify
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER		B1 SW CRNR KILKENNY RD AND BYRNES RD B1 SW CRNR KILKENNY RD AND BYRNES RD	06N 01	1E 06	1/17/2015	ALMOND No	160.0000	ACRES 293	935-546-ZC	415 SUPERIOR SPRAY O BADGE X2	True True	200.0000 400.0000	Gallon		CRES Ground	Grower Applied			3838573 3838573	GROWER APPLIED 2/19/2015	agrian_data agrian_data	2/19/2015 2/19/2015	7:54 AM	ACC I	DPR Not Required
5100159	SINGH, HARMINDER SINGH, HARMINDER	R No	B1     SW CRNR KILKENNY RD AND BYRNES RD       B1     SW CRNR KILKENNY RD AND BYRNES RD	06N 01		2/16/2015	ALMOND No ALMOND No	160.0000	ACRES 100	00-828-ZA	VANGARD WG	True	25.0000	Pounds	80.0000 80.0000	CRES Ground CRES Ground CRES Ground	Grower Applied Grower Applied Grower Applied			4223254	GROWER APPLIED 6/24/2015	agrian_data agrian_data	6/24/2015 6/24/2015	5:38 PM	ACC I	DPRNot RequiredDPRNot RequiredDPRNot Required
5100159	SINGH, HARMINDER SINGH, HARMINDER	R No	B1     SW CRNR KILKENNY RD AND BYRNES RD       B1     SW CRNR KILKENNY RD AND BYRNES RD	06N 01	1E 06 1E 06 1E 06		ALMOND No	160.0000 160.0000 160.0000	ACRES 264 ACRES 293	64-1090-AA	LUNA SENSATION	True	2.4800 4.0000 2.4800	Gallon	80.0000	CRES Ground CRES Ground				4223285	GROWER APPLIED 6/24/2015 GROWER APPLIED 6/24/2015	agrian_data agrian_data agrian_data	6/24/2015 6/24/2015	5:53 PM	ACC	DPR Not Required DPR Not Required
						6,2,2010		100.0000					2.1000						41167 COUNTY RD 27			<u>ughan_uata</u>				
	SINGH, HARMINDER	R No	B1																WOODLAND							
5100159			SW CRNR KILKENNY RD AND BYRNES RD	06N 01	1E 06	3/8/2016	ALMOND No	160.0000	ACRES 100	00-1313-AA	QUADRIS TOP FUNGICIDE	True	17.5000	Gallon	160.0000	CRES Aircraft	GROWERS AIR SERVICE		95695 41167 COUNTY RD 27	067-16-000005	28	laperkins	4/7/2016	9:58 AM	ACC	DPR Not Required
	SINGH. HARMINDER	P No	B1																WOODLAND							
5100150			SW CRNR KILKENNY RD AND BYRNES RD	06N 01	15 06	2/8/2016		160,0000		935-50189-AA	SVI COAT	True	64 0000	Quinco	160,0000		GROWERS AIR SERVICE		CA	067 16 000005		laparking	4/7/2016	0.59 0.14		DPR Not Required
5100159	SINGH, HARMINDER SINGH, HARMINDER	R No	B1 SW CRNR KILKENNY RD AND BYRNES RD B1 SW CRNR KILKENNY RD AND BYRNES RD B1 SW CRNR KILKENNY RD AND BYRNES RD	06N 01	1E 06	3/8/2016 2/12/2016	ALMOND No ALMOND No ALMOND No	160.0000 160.0000	ACRES 293	2719-416-ZA	INDAR 2F	True	64.0000 3.7500	Ounce Gallon	80.0000	CRES Aircraft CRES Ground CRES Ground	GROWERS AIR SERVICE Grower Applied		90090	067-16-000005 5728925	GROWER APPLIED 11/18/2016	agrian_data	11/18/2016	9.56 AM 8:42 AM	ACC	DPR Not Required
5100159	SINGH, HARMINDER SINGH, HARMINDER SINGH, HARMINDER	R No	B1     SW CRNR KILKENNY RD AND BYRNES RD       B1     SW CRNR KILKENNY RD AND BYRNES RD       B1     SW CRNR KILKENNY RD AND BYRNES RD	06N 01	1E 06		ALMOND No	160.0000 160.0000	ACRES 264	64-1090-AA	LUNA SENSATION	True	4.0000	Gallon	80.0000	CRES Ground	Grower Applied			5728926	GROWER APPLIED 11/18/2016 GROWER APPLIED 11/18/2016	agrian_data agrian_data	11/18/2016	8:43 AM	ACC	DPR Not Required DPR Not Required DPR Not Required
5100159	SINGH, HARMINDER SINGH, HARMINDER SINGH, HARMINDER	R NO R No	B1     SW CRNR KILKENNY RD AND BYRNES RD       B1     SW CRNR KILKENNY RD AND BYRNES RD       B1     SW CRNR KILKENNY RD AND BYRNES RD		1E 06 1E 06	5/22/2016	ALMOND No ALMOND No	160.0000 160.0000	ACRES 796	935-50189-AA 969-276-AA	TREEVIX(TM) HERBICID	True True	2.4800 1.1900	Gallon Pounds	80.0000 19.0900	CRES Ground	Grower Applied Grower Applied			5728920	GROWER APPLIED 11/18/2016 GROWER APPLIED 11/18/2016	agrian_data agrian_data	11/18/2016	8:43 AM 8:43 AM	ACC I	DPRNot RequiredDPRNot RequiredDPRNot Required
5100159	SINGH, HARMINDER		B1 SW CRNR KILKENNY RD AND BYRNES RD	06N 01	1E 06 1E 06	5/22/2016	ALMOND No ALMOND No	160.0000 160.0000	ACRES 293	935-50171-AA 935-50176-AA	SUPER SPREAD MSO	True	2.3900	Gallon Gallon	19.0900	CRES Ground	Grower Applied Grower Applied			5728930	GROWER APPLIED 11/18/2016 GROWER APPLIED 11/18/2016	agrian_data agrian_data	11/18/2016	8:43 AM 8:43 AM	ACC	DPR Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R NO R No	B1 SW CRNR KILKENNY RD AND BYRNES RD B1 SW CRNR KILKENNY RD AND BYRNES RD	06N 01	1E 06 1E 06	6/12/2016	ALMOND No ALMOND No	160.0000 160.0000	ACRES 100	0-1351-AA	AGRI-MEK SC	True True	0.6000 2.6600	Gallon	80.0000	CRES Ground	Grower Applied Grower Applied			5728930	GROWER APPLIED 11/18/2016 GROWER APPLIED 11/18/2016	agrian_data agrian_data	11/18/2016 11/18/2016	8:43 AM 8:45 AM	ACC I	DPRNot RequiredDPRNot RequiredDPRNot Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER		B1 SW CRNR KILKENNY RD AND BYRNES RD B1 SW CRNR KILKENNY RD AND BYRNES RD		1E 06	6/12/2016	ALMOND No ALMOND No	160.0000 160.0000	ACRES 293	935-50203-AA	GEM 500 SC FUNGICIDE SYL-TAC-EA	True True	2.0000 8.0000	Gallon Gallon	80.0000 80.0000	CRES Ground	Grower Applied Grower Applied			5728936	GROWER APPLIED 11/18/2016 GROWER APPLIED 11/18/2016	agrian_data agrian_data	11/18/2016 11/18/2016	8:45 AM 8:45 AM	ACC I	DPR Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1       SW CRNR KILKENNY RD AND BYRNES RD         B1       SW CRNR KILKENNY RD AND BYRNES RD	06N 01	1E 06 1E 06	11/18/2016	ALMOND No ALMOND No	160.0000 160.0000	ACRES 264 ACRES 627	64-1106-AA 2719-424-AA	ALION HERBICIDE GOAL 2XL	True True	1.5300 5.4600	Gallon Gallon	43.6400	CRES Ground	Grower Applied Grower Applied			5732974	GROWER APPLIED 11/21/2016 GROWER APPLIED 11/21/2016	agrian_data agrian_data	11/21/2016 11/21/2016	9:16 AM 9:16 AM	ACC I	DPRNot RequiredDPRNot RequiredDPRNot RequiredDPRNot Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1         SW CRNR KILKENNY RD AND BYRNES RD           B1         SW CRNR KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	11/18/2016 11/18/2016	ALMOND No ALMOND No	160.0000 160.0000	ACRES 524	24-549-AA 935-50142-AA	ROUNDUP POWERMAX HER R-11(R) SPREADER-ACT	True True	32.7300 2.1800	Gallon Gallon	43.6400 43.6400	CRES Ground	Grower Applied Grower Applied			5732974 5732974	GROWER APPLIED 11/21/2016 GROWER APPLIED 11/21/2016	agrian_data agrian_data	11/21/2016 11/21/2016	9:16 AM 9:16 AM	ACC I	JPR         Not Required           DPR         Not Required
																			P.O. BOX 1405							
	SINGH, HARMINDER	K No	В1													0750			WOODBRIDGE CA				0/00/00 :			
5100159 5100159	SINGH, HARMINDER	R No	SW CRNR KILKENNY RD AND BYRNES RD B1 SW CRNR KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	2/25/2017 2/14/2017	ALMOND No ALMOND No	160.0000 160.0000	ACRES 264 ACRES 100	04-1090-AA 00-828-ZB	LUNA SENSATION VANGARD WG (CA)	True True	15.6300	Pounds	50,0000	CRES Aircraft CRES Ground	Grower Applied	30969 PCM	95258	055-17-000005	GROWER APPLIED 4/13/2017	laperkins agrian_data	3/28/2017 4/13/2017	11:53 AM 10:12 AM	ACC I	JPR         Not Required           DPR         Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1 SW CRNR KILKENNY RD AND BYRNES RD B1 SW CRNR KILKENNY RD AND BYRNES RD	06N 01	1E 06	2/14/2017	ALMOND NO	160.0000	ACRES 293 ACRES 100	935-50203-AA 00-828-ZB	SYL-TAC-EA VANGARD WG (CA)	True True	2.5000	Gallon Pounds	50.0000 25.0000	CRES Ground CRES Ground CRES Ground CRES Ground CRES Ground	Grower Applied Grower Applied			6034950 6034955	GROWER APPLIED 4/13/2017 GROWER APPLIED 4/13/2017	agrian_data agrian_data	4/13/2017 4/13/2017	10:12 AM 10:13 AM	ACC I ACC I	JPR         Not Required           DPR         Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1     SW CRNR KILKENNY RD AND BYRNES RD       B1     SW CRNR KILKENNY RD AND BYRNES RD	06N 01	1E 06 1E 06	3/13/2017	ALMOND No ALMOND No	160.0000 160.0000	ACRES 505	935-50203-AA 0534-188-ZB-100	SYL-TAC-EA BRAVO WEATHER STIK	True True	1.2500 40.0000	Pounds Gallon Gallon	25.0000 80.0000	CRES Ground	Grower Applied Grower Applied			6034955 6034964	GROWER APPLIED 4/13/2017 GROWER APPLIED 4/13/2017	agrian_data agrian_data	4/13/2017 4/13/2017	10:13 AM 10:15 AM	ACC I ACC I	JPR         Not Required           DPR         Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1SW CRNR KILKENNY RD AND BYRNES RDB1SW CRNR KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	4/5/2018 4/5/2018	ALMOND No ALMOND No	110.0000	ACRES 293	935-50171-AA 2750-72-ZA	CAYUSE PLUS CLETHODIM 2E	True True	0.9100							7235417 7235417	GROWER APPLIED 4/24/2018 GROWER APPLIED 4/24/2018	agrian_data agrian_data	4/24/2018 4/24/2018	11:58 AM 11:58 AM	ACC ACC	JPR         Not Required           DPR         Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1         SW CRNR KILKENNY RD AND BYRNES RD           B1         SW CRNR KILKENNY RD AND BYRNES RD	06N 01	1E 06	4/5/2018	ALMOND No	110.0000	ACRES 796 ACRES 627	969-276-AA 2719-424-AA	TREEVIX(R) POWERED B GOAL 2XL	True True	0.5700	Pounds Gallon	9.0900 9.0900	CRES Ground CRES Ground CRES Ground CRES Ground CRES Ground CRES Ground CRES Ground CRES Ground CRES Ground	Grower Applied Grower Applied			7235417 7235417	GROWER APPLIED 4/24/2018 GROWER APPLIED 4/24/2018	agrian_data agrian_data	4/24/2018 4/24/2018	11:58 AM 11:58 AM	ACC I	JPR         Not Required           DPR         Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1SW CRNR KILKENNY RD AND BYRNES RDB1SW CRNR KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	4/5/2018 4/5/2018 4/5/2018 4/5/2018	ALMOND No ALMOND No ALMOND No	110.0000	ACRES 242	1-418-AA 935-50176-AA	PROWL(R) H2O HERBICI SUPER SPREAD MSO	True True	6.8200 1.1400	Gallon Gallon Gallon Gallon Gallon	9.0900	CRES Ground	Grower Applied Grower Applied			7235417 7235417	GROWER APPLIED 4/24/2018 GROWER APPLIED 4/24/2018	agrian_data agrian_data	4/24/2018 4/24/2018	11:58 AM 11:58 AM	ACC ACC	JPR         Not Required           DPR         Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1         SW CRNR KILKENNY RD AND BYRNES RD           B1         SW CRNR KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	4/5/2018 4/7/2018	ALMOND No ALMOND No	110.0000 110.0000 110.0000	ACRES 524	935-50186-AA 24-549-AA	CROSSHAIR ROUNDUP POWERMAX HER	True True	0.2800	Gallon Gallon	9.0900	CRES Ground	Grower Applied Grower Applied			7235417 7235398	GROWER APPLIED 4/24/2018 GROWER APPLIED 4/24/2018	agrian_data agrian_data	4/24/2018 4/24/2018	11:58 AM 11:57 AM	ACC ACC	JPR         Not Required           DPR         Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1SW CRNR KILKENNY RD AND BYRNES RDB1SW CRNR KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	4/7/2018 4/7/2018	ALMOND No ALMOND No	110.0000 110.0000 110.0000 110.0000	ACRES 627 ACRES 242	2719-424-AA 11-418-AA	GOAL 2XL PROWL(R) H2O HERBICI	True True	10.0000 10.0000 20.0000	Gallon Gallon Gallon	40.0000	CRES Ground CRES Ground CRES Ground CRES Ground CRES Ground	Grower Applied Grower Applied			7235398 7235398	GROWER APPLIED 4/24/2018 GROWER APPLIED 4/24/2018	agrian_data agrian_data	4/24/2018 4/24/2018	11:57 AM 11:57 AM	ACC I	JPR         Not Required           DPR         Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1SW CRNR KILKENNY RD AND BYRNES RDB1SW CRNR KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	4/7/2018 4/7/2018	ALMOND No ALMOND No	110.0000 110.0000	ACRES 293 ACRES 293	935-50176-AA 935-50186-AA	SUPER SPREAD MSO CROSSHAIR	True True	5.0000 1.2500	Gallon Gallon	40.0000 40.0000	CRES Ground	Grower Applied Grower Applied			7235398 7235398	GROWER APPLIED 4/24/2018 GROWER APPLIED 4/24/2018	agrian_data agrian_data	4/24/2018 4/24/2018	11:57 AM 11:57 AM	ACC I	JPR         Not Required           DPR         Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1     SW CRNR KILKENNY RD AND BYRNES RD       B1     SW CRNR KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	6/6/2018 6/6/2018	ALMOND     No       ALMOND     No	110.0000 110.0000 110.0000	ACRES 100 ACRES 100	00-617-ZG 00-1351-AA	TILT AGRI-MEK SC	True True	6.8800 3.4400	Gallon Gallon	110.0000	CRES Ground	Grower Applied Grower Applied			7970879 7970879	GROWER APPLIED 9/21/2018 GROWER APPLIED 9/21/2018	agrian_data agrian_data	9/21/2018 9/21/2018	10:43 AM 10:43 AM	ACC I	JPR         Not Required           DPR         Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1SW CRNR KILKENNY RD AND BYRNES RDB1SW CRNR KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	6/6/2018 6/6/2018 6/3/2018 6/3/2018	ALMOND No ALMOND No	110.0000 110.0000	ACRES 100 ACRES 293	00-1295-AA-55467 935-50203-AA	PROVINCE II SYL-TAC-EA	True True	2.2000 13.7500	Gallon	110.0000	CRES Ground CRES Ground CRES Ground	Grower Applied Grower Applied			7970879 7970879	GROWER APPLIED 9/21/2018 GROWER APPLIED 9/21/2018	agrian_data agrian_data	9/21/2018 9/21/2018	10:43 AM 10:43 AM	ACC I	JPR         Not Required           DPR         Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1         SW CRNR KILKENNY RD AND BYRNES RD           B1         SW CRNR KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	6/3/2018 6/3/2018	ALMOND No ALMOND No ALMOND No ALMOND No	110.0000 110.0000 110.0000	ACRES 100 ACRES 293	00-1431-AA 935-50142-AA	GRAMOXONE SL 2.0 R-11(R) SPREADER-ACT	True True	6.8200 0.9100	Gallon Gallon Gallon	18.1800 18.1800	CRES Ground	Grower Applied Grower Applied			7970897 7970897	GROWER APPLIED 9/21/2018 GROWER APPLIED 9/21/2018	agrian_data agrian_data	9/21/2018 9/21/2018	10:46 AM 10:46 AM	ACC I	JPR         Not Required           DPR         Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1         SW CRNR KILKENNY RD AND BYRNES RD           B1         SW CRNR KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	6/3/2018 6/21/2019 6/21/2019 3/1/2020	ALMOND No ALMOND No	110.0000 110.0000	ACRES 293 ACRES 100	935-50186-AA 00-617-ZG	CROSSHAIR TILT	True True	0.5700 3.4400 4.7000	Gallon	18.1800	CRES Ground	Grower Applied Grower Applied			7970897 9402278	GROWER APPLIED 9/21/2018 GROWER APPLIED 9/21/2018	agrian_data agrian_data	9/21/2018 12/4/2019	10:46 AM 10:39 AM	ACC I	JPR         Not Required           DPR         Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1     SW CRNR KILKENNY RD AND BYRNES RD       B1     SW CRNR KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	6/21/2019 3/1/2020	ALMOND No ALMOND No	110.0000 110.0000	ACRES 100 ACRES 524	00-1351-ZA 24-549-AA	AGRI-MEK SC MITICIDE/INSECTICIDE ROUNDUP POWERMAX HERBICIDE	True True	1.7200 5.3200	Gallon Gallon Gallon		CRES Ground	Grower Applied Grower Applied			9402278 9685061		agrian_data agrian_data	12/4/2019 4/6/2020	10:39 AM 1:44 PM	ACC I	JPR         Not Required           DPR         Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1         SW CRNR KILKENNY RD AND BYRNES RD           B1         SW CRNR KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	3/1/2020 3/1/2020	ALMOND No ALMOND No	110.0000	ACRES 62	2719-611-AA 64-1106-AA	PINDAR GT ALION HERBICIDE	True True	2.6600 0.6600	Gallon Gallon	21.2700 21.2700	CRES Ground	Grower Applied Grower Applied			9685061 9685061		agrian_data agrian_data	4/6/2020 4/6/2020	1:44 PM 1:44 PM	ACC I	JPR         Not Required           DPR         Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1         SW CRNR KILKENNY RD AND BYRNES RD           B1         SW CRNR KILKENNY RD AND BYRNES RD	06N 01	1E 06	3/1/2020 3/1/2020	ALMOND No ALMOND No	110.0000 110.0000 110.0000	ACRES 663 ACRES 293	330-353-AA-55467 935-50186-AA	VOLUNTEER HERBICIDE CROSSHAIR	True True	1.3300 0.6600	Callon	21.2700 21.2700	CRES Ground	Grower Applied Grower Applied			9685061 9685061		agrian_data agrian_data	4/6/2020 4/6/2020	1:44 PM 1:44 PM	ACC I	JPR         Not Required           DPR         Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1 SW CRNR KILKENNY RD AND BYRNES RD B1 SW CRNR KILKENNY RD AND BYRNES RD	06N 01	1E 06	5/4/2020	ALMOND No	110.0000 110.0000	ACRES 293 ACRES 524	935-50171-AA 24-549-AA	CAYUSE PLUS ROUNDUP POWERMAX HERBICIDE	True True	2.7300 9.3700	Gallon	27.2700 27.2700	CRES Ground	Grower Applied Grower Applied			10140082 10140082		agrian_data agrian_data	7/14/2020 7/14/2020	8:25 AM 8:25 AM	ACC I ACC I	DPR Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1 SW CRNR KILKENNY RD AND BYRNES RD B1 SW CRNR KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	5/4/2020 5/4/2020	ALMOND No ALMOND No ALMOND No	110.0000 110.0000	ACRES 796 ACRES 293	969-276-AA 935-50176-AA	TREEVIX POWERED BY KIXOR HERBICIDE SUPER SPREAD MSO	True True	9.3700 1.7000 3.4100	Pounds Gallon	27.2700 27.2700	CRES Ground	Grower Applied Grower Applied			10140082 10140082		agrian_data agrian_data	7/14/2020 7/14/2020	8:25 AM 8:25 AM	ACC I	DPR Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1         SW CRNR KILKENNY RD AND BYRNES RD           B1         SW CORNER OF KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	5/4/2020 3/2/2021	ALMOND No ALMOND No	110.0000 110.0000	ACRES 293 ACRES 293	935-50186-AA 935-50171-AA	CROSSHAIR CAYUSE PLUS	True True	0.8500 2.5000	Gallon	27.2700 25.0000	CRES Ground	Grower Applied Grower Applied			10140082 11194457		agrian_data agrian_data	7/14/2020 6/21/2021	8:25 AM 2:46 PM	ACC I ACC I	DPR Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1       SW CORNER OF KILKENNY RD AND BYRNES RD         B1       SW CORNER OF KILKENNY RD AND BYRNES RD         B1       SW CORNER OF KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	3/2/2021 3/2/2021	ALMOND No ALMOND No	110.0000 110.0000	ACRES 663 ACRES 627	330-353-AA-55467 2719-424-AA	VOLUNTEER HERBICIDE GOAL 2XL	True True	1.5600 6.2500	Callon	25.0000 25.0000	CRES Ground	Grower Applied Grower Applied			11194457 11194457		agrian_data agrian_data	6/21/2021 6/21/2021	2:46 PM 2:46 PM	ACC I	VPR         Not Required           DPR         Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1     SW CORNER OF KILKENNY RD AND BYRNES RD       B1     SW CORNER OF KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	3/2/2021 3/2/2021	ALMOND No ALMOND No	110.0000	ACRES 705 ACRES 293	0506-230-ZA 035-50186-AA	SATELLITE HYDROCAP HERBICIDE CROSSHAIR	True	18.7500 0.7800	Gallon Gallon	25.0000	CRES Ground	Grower Applied Grower Applied			11194457 11194457		agrian_data agrian_data	6/21/2021 6/21/2021	2:46 PM 2:46 PM	ACC ACC	JPR Not Required DPR Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1         SW CORNER OF KILKENNY RD AND BYRNES RD           B1         SW CORNER OF KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	10/19/2021 10/19/2021	ALMOND No ALMOND No	110.0000	ACRES 264 ACRES 293	64-1106-AA 935-50176-AA	ALION HERBICIDE SUPER SPREAD MSO	True True	54.5400 2.2700	Ounce Gallon	13.6364 13.6364	CRES Ground	Grower Applied Grower Applied			1644634 1644634		wilburellis_data wilburellis data	11/14/2021 11/14/2021	7:05 PM 7:05 PM	ACC ACC	DPR Not Required DPR Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1       SW CORNER OF KILKENNY RD AND BYRNES RD         B1       SW CORNER OF KILKENNY RD AND BYRNES RD         B1       SW CORNER OF KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	10/19/2021 10/19/2021 10/19/2021	ALMOND No ALMOND No	110.0000 110.0000	ACRES 242 ACRES 422	1-418-AA 2750-136-AA	PROWL H2O HERBICIDE OXYSTAR 2E	True True	13.6300 13.6300	Gallon Gallon	13.6364 13.6364	CRES Ground	Grower Applied Grower Applied			1644635 1644635		wilburellis_data wilburellis data	11/14/2021 11/14/2021	7:06 PM 7:06 PM	ACC ACC	JPR         Not Required           DPR         Not Required
5100159	SINGH, HARMINDER	R No	B1 SW CORNER OF KILKENNY RD AND BYRNES RD	06N 01	1E 06	10/19/2021	ALMOND No	<u>110.0000</u> 110.0000	ACRES 293	2750-136-AA 935-50176-AA	SUPER SPREAD MSO	True	2.2700	Gallon Gallon	13.6364	CRES Ground	Grower Applied Grower Applied		4425 W RIEGO RD	1644635		wilburellis_data	11/14/2021	7:06 PM	ACC	DPR Not Required DPR Not Required
	SINGH, HARMINDER	R No	B1																SACRAMENTO							
5100159			SW CORNER OF KILKENNY RD AND BYRNES RD	06N 01	1E 06	3/5/2023	ALMOND No	110.0000	ACRES 293	935-50152-AA	TRI-FOL	True	1.1000	Gallon	110.0000	CRES Aircraft	FARM AIR FLYING SRVC LLC	40561 PCM	CA 95836	13049653		agrian_data	3/6/2023	1:03 PM	ACC	DPR Not Required
																			4425 W RIEGO RD							
	SINGH, HARMINDER	R No	B1																SACRAMENTO CA							
5100159 5100159	SINGH, HARMINDER	R No	SW CORNER OF KILKENNY RD AND BYRNES RD           B1         SW CORNER OF KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	3/5/2023 4/22/2023	ALMOND No ALMOND No	110.0000 110.0000	ACRES 264 ACRES 293	64-1090-AA 935-50171-AA	LUNA SENSATION CAYUSE PLUS LIFELINE HERBICIDE	True True	5.5000 5.9100	Gallon Gallon	110.0000 47.2800	CRES Aircraft CRES Ground	FARM AIR FLYING SRVC LLC Grower Applied	40561 PCM	95836	13049653 1831911		agrian_data wilburellis_data	3/6/2023 4/26/2023	1:03 PM 11:26 AM	ACC I	JPRNot RequiredDPRNot Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1 SW CORNER OF KILKENNY RD AND BYRNES RD B1 SW CORNER OF KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	4/22/2023 4/22/2023	ALMOND No ALMOND No	110.0000 110.0000	ACRES 705 ACRES 427	)506-310-AA 2750-136-AA	LIFELINE HERBICIDE OXYSTAR 2E	True True	23.6400 5.9100	Gallon Gallon	47.2800	CRES Ground	Grower Applied Grower Applied			1831911 1831911		wilburellis_data wilburellis_data	4/26/2023 4/26/2023	11:26 AM 11:26 AM	ACC ACC	DPR Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	B1       SW CORNER OF KILKENNY RD AND BYRNES RD         B1       SW CORNER OF KILKENNY RD AND BYRNES RD         B1       SW CORNER OF KILKENNY RD AND BYRNES RD         B1       SW CORNER OF KILKENNY RD AND BYRNES RD	06N 01 06N 01	1E 06 1E 06	4/22/2023	ALMOND No ALMOND No	110.0000 110.0000 110.0000 110.0000	ACRES 293 ACRES 293	935-50176-AA 935-50186-AA	SUPER SPREAD MSO CROSSHAIR	True True	11.8200 1.4700	Gallon Gallon	47.2800 47.2800	CRES Ground CRES Ground	Grower Applied Grower Applied			1831911 1831911		wilburellis_data wilburellis_data	4/26/2023 4/26/2023	11:26 AM 11:26 AM	ACC I ACC I	DPR Not Required DPR Not Required
																0.0414			4425 W RIEGO RD							
	SINGH, HARMINDER	R No	B1																SACRAMENTO							
5100159			SW CORNER OF KILKENNY RD AND BYRNES RD	06N 01	1E 06	2/13/2024	ALMOND No	110.0000	ACRES 293	935-50152-AA	TRI-FOL	True	2.6000	Gallon	52.0000	CRES Aircraft	FARM AIR FLYING SRVC LLC	40561 PCM	95836 4425 W RIEGO RD	14161592		agrian_data	2/14/2024	9:34 AM	ACC	DPR Not Required
	SINGH, HARMINDER	R No	B1																SACRAMENTO							
5100159			SW CORNER OF KILKENNY RD AND BYRNES RD	06N 01	1E 06	2/13/2024	ALMOND No	110.0000	ACRES 100	00-1603-AA	MIRAVIS PRIME	True	3.7000	Gallon	52.0000	CRES Aircraft	FARM AIR FLYING SRVC LLC	40561 PCM	CA 95836	14161592		agrian_data	2/14/2024	9:34 AM	ACC	DPR Not Required
5100159 5100159	SINGH, HARMINDER SINGH, HARMINDER	R No R No	SW CORNER OF KILKENNY RD AND BYRNES RD           B1         SW CRNR KILKENNY RD AND BYRNES RD           B1         SW CRNR KILKENNY RD AND BYRNES RD	06N 01	1E 06 1E 06	2/13/2024 12/9/2017 12/9/2017	ALMOND No ALMOND No	110.0000 160.0000 160.0000	ACRES 264	64-1106-AA 2719-611-AA	ALION HERBICIDE PINDAR GT	True True True	1.1800	Gallon Gallon	37.8200 37.8200	CRES Aircraft CRES Ground CRES Ground				055-18-000003	17	laperkins laperkins	1/29/2018 1/29/2018	2:36 PM 2:36 PM	ACC I	DPR Not Required
5100159	SINGH, HARMINDER	R No	B1 SW CRNR KILKENNY RD AND BYRNES RD	06N 01	1E 06	12/9/2017			ACRES 293	935-50176-AA	SUPER SPREAD MSO	True	4.7200	Gallon	37.8200	CRES Ground				055-18-000003	17	laperkins	1/29/2018	2:36 PM	ACC	JPR Not Required

APPENDIX E ENVIRONMENTAL DATABASE INFORMATION



# DATABASE REPORT

**Project Property:** 

Corby BESS Parcel Number 0141030090 Vacaville CA

Project No: Report Type: Order No: Requested by: Date Completed:

Database Report 24060501801 NextEra Energy, Inc. June 6, 2024

Environmental Risk Information Services A division of Glacier Media Inc. 1.866.517.5204 | info@erisinfo.com | erisinfo.com



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## **Executive Summary**

#### Property Information:

**Project Property:** 

Corby BESS Parcel Number 0141030090 Vacaville CA

Project No:

#### **Coordinates:**

Latitude:	38.3924655
Longitude:	-121.90750095
UTM Northing:	4,249,926.28
UTM Easting:	595,406.40
UTM Zone:	10S

#### Elevation:

78 FT

#### Order Information:

Order No:	24060501801
Date Requested:	June 5, 2024
Requested by:	NextEra Energy,
Report Type:	Database Report

#### Historicals/Products:

ERIS Xplorer	
Excel Add-On	

NextEra Energy, Inc. Database Report

ERIS Xplorer Excel Add-On

## Executive Summary: Report Summary

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
Standard Environmental Records		Naulus	riopeny	0.12111	10 0.2011	0.50111	1.00111	
Federal								
NPL	Y	1	0	0	0	0	0	0
PROPOSED NPL	Y	1	0	0	0	0	0	0
DELETED NPL	Y	0.5	0	0	0	0	-	0
SEMS	Y	0.5	0	0	0	0	-	0
SEMS ARCHIVE	Y	0.5	0	0	0	0	-	0
ODI	Y	0.5	0	0	0	0	-	0
IODI	Y	0.5	0	0	0	0	-	0
CERCLIS	Y	0.5	0	0	0	0	-	0
CERCLIS NFRAP	Y	0.5	0	0	0	0	-	0
CERCLIS LIENS	Y	PO	0	-	-	-	-	0
RCRA CORRACTS	Y	1	0	0	0	0	0	0
RCRA TSD	Y	0.5	0	0	0	0	-	0
RCRA LQG	Y	0.25	0	0	0	-	-	0
RCRA SQG	Y	0.25	0	0	0	-	-	0
RCRA VSQG	Y	0.25	0	0	0	-	-	0
RCRA NON GEN	Y	0.25	0	0	0	-	-	0
RCRA CONTROLS	Y	0.5	0	0	0	0	-	0
FED ENG	Y	0.5	0	0	0	0	-	0
FED INST	Y	0.5	0	0	0	0	-	0
LUCIS	Y	0.5	0	0	0	0	-	0
NPL IC	Y	0.5	0	0	0	0	-	0
ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
ERNS 1987 TO 1989	Y	PO	0	-	-	-	-	0
ERNS	Y	PO	0	-	-	-	-	0
FED BROWNFIELDS	Y	0.5	0	0	0	0	-	0
FEMA UST	Y	0.25	0	0	0	-	-	0
FRP	Y	0.25	0	0	0	-	-	0

Dat	abase	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
	DELISTED FRP	Y	0.25	0	0	0	-	-	0
	HIST GAS STATIONS	Y	0.25	0	0	0	-	-	0
	REFN	Y	0.25	0	0	0	-	-	0
	BULK TERMINAL	Y	0.25	0	0	0	-	-	0
	SEMS LIEN	Y	PO	0	-	-	-	-	0
	SUPERFUND ROD	Y	1	0	0	0	0	0	0
	DOE FUSRAP	Y	1	0	0	0	0	0	0
	DUE FUSRAF								
Sta	te								
	RESPONSE	Y	1	0	0	0	0	0	0
	ENVIROSTOR	Y	1	0	0	0	0	0	0
	DELISTED ENVS	Y	1	0	0	0	0	0	0
	SWF/LF	Y	0.5	0	0	0	0	-	0
	SWRCB SWF	Y	0.5	0	0	0	0	-	0
	WMUD	Y	0.5	0	0	0	0	-	0
	HWP	Y	1	0	0	0	0	0	0
	SWAT	Y	0.5	0	0	0	0	-	0
	C&D DEBRIS RECY	Y	0.5	0	0	0	0	-	0
	RECYCLING	Ŷ	0.5	0	0	0	0	-	0
	PROCESSORS	Ŷ	0.5	0	0	0	0	-	0
	CONTAINER RECY	Ŷ	0.5	0	0	0	0	-	0
	LDS	Ŷ	0.5	0	0	0	0	-	0
	LUST	Y	0.5	0	0	0	0	-	0
	DELISTED LST	Y	0.5	0	0	0	0	-	0
	UST	Y Y	0.25 0.5	0 0	0 0	0 0	- 0	-	0
	UST CLOSURE	Y	0.25	0	0	0	-	-	0
	HHSS	Y	0.25	0	0	0	-	-	0
	UST SWEEPS	Y	0.25	0	0	0	-	-	0 0
	AST	Y	0.25	0	0	0	-	-	0
	AST SWRCB	Ŷ	0.25	0	0	0	-	-	0
	TANK OIL GAS	Y	0.25	0	0	0	-	-	0
	DELISTED TNK	Y	0.25	0	0	0	-	-	0
	CERS TANK	Ŷ	0.25	0	0	0	-	-	0
	DELISTED CTNK	Ŷ	0.25	0	0	0	-	-	0
	HIST TANK		5.20	v	č	U U			U

Database		Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
	LUR	Y	0.5	0	0	0	0	-	0
	CALSITES	Y	0.5	0	0	0	0	-	0
	HLUR	Y	0.5	0	0	0	0	-	0
	DEED	Y	0.5	0	0	0	0	-	0
	VCP	Y	0.5	0	0	0	0	-	0
	CLEANUP SITES	Y	0.5	0	0	0	0	-	0
	DELISTED CLEANUP	Y	0.5	0	0	0	0	-	0
	DELISTED COUNTY	Y	0.25	0	0	0	-	-	0
Tril	pal								
	INDIAN LUST	Y	0.5	0	0	0	0	-	0
	INDIAN UST	Y	0.25	0	0	0	-	-	0
	DELISTED INDIAN LST	Y	0.5	0	0	0	0	-	0
	DELISTED INDIAN UST	Y	0.25	0	0	0	-	-	0
6.0									
CO	unty	Y	0.5	0	0	0	0	-	0
	LOP SOLANO	Ŷ	0.25	0	0	0	-	_	0
	UST SOLANO	Ŷ	0.25	0	0	0	_	-	0
	CUPA SOLANO	I	0.20	0	0	U			0
Ade	ditional Environmental Records								
Feo	leral								
	PFAS GHG	Y	0.5	0	0	0	0	-	0
	OSC RESPONSE	Y	0.125	0	0	-	-	-	0
	FINDS/FRS	Y	PO	0	-	-	-	-	0
	TRIS	Y	PO	0	-	-	-	-	0
	PFAS NPL	Y	0.5	0	0	0	0	-	0
	PFAS FED SITES	Y	0.5	0	0	0	0	-	0
	PFAS SSEHRI	Y	0.5	0	0	0	0	-	0
	ERNS PFAS	Y	0.5	0	0	0	0	-	0
	PFAS NPDES	Y	0.5	0	0	0	0	-	0
	PFAS TRI	Y	0.5	0	0	0	0	-	0
	PFAS WATER	Y	0.5	0	0	0	0	-	0
	PFAS TSCA	Y	0.5	0	0	0	0	-	0
	PFAS E-MANIFEST	Y	0.5	0	0	0	0	-	0
	PFAS IND	Y	0.5	0	0	0	0	-	0
	HMIRS	Y	0.125	0	0	-	-	-	0

Database		Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
N	CDL	Y	0.125	0	0	-	-	-	0
т	SCA	Y	0.125	0	0	-	-	-	0
н	ST TSCA	Y	0.125	0	0	-	-	-	0
FT	ITS ADMIN	Y	PO	0	-	-	-	-	0
FI	ITS INSP	Y	PO	0	-	-	-	-	0
PF	RP	Y	PO	0	-	-	-	-	0
S	CRD DRYCLEANER	Y	0.5	0	0	0	0	-	0
IC	IS	Y	PO	0	-	-	-	-	0
FE	ED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DI	ELISTED FED DRY	Y	0.25	0	0	0	-	-	0
FL	JDS	Y	1	0	0	0	0	0	0
FL	JDS MRS	Y	1	0	0	0	0	0	0
FC	ORMER NIKE	Y	1	0	0	0	0	0	0
PI	PELINE INCIDENT	Y	PO	0	-	-	-	-	0
M	LTS	Y	PO	0	-	-	-	-	0
н	ST MLTS	Y	PO	0	-	-	-	-	0
M	INES	Y	0.25	0	0	0	-	-	0
SI	MCRA	Y	1	0	0	0	0	0	0
M	RDS	Y	1	0	0	0	0	0	0
LN	A SITES	Y	1	0	0	0	0	0	0
AL	_T FUELS	Y	0.25	0	0	0	-	-	0
C	ONSENT DECREES	Y	0.25	0	0	0	-	-	0
AF	FS	Y	PO	0	-	-	-	-	0
SS	STS	Y	0.25	0	0	0	-	-	0
P	CBT	Y	0.5	0	0	0	0	-	0
P	CB	Y	0.5	0	0	0	0	-	0
State									
		Y	0.5	0	0	0	0	-	0
	FAS SAMPLING	Y	0.25	0	0	0	-	-	0
	RYCLEANERS	Y	0.25	0	0	0	-	-	0
	ELISTED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
		Y	0.5	0	0	0	0	-	0
	FAS GT CLEANUPS	Y	0.5	0	0	0	0	-	0
	FAS GW	Y	0.5	0	0	0	0	-	0
		Y	0.5	0	0	0	0	-	0
H\	WSS CLEANUP								-

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
TOXIC PITS	Y	1	0	0	0	0	0	0
DTSC HWF	Y	0.5	0	0	0	0	-	0
INSP COMP ENF	Y	1	0	0	0	0	0	0
SCH	Y	1	0	0	0	0	0	0
CHMIRS	Y	PO	0	-	-	-	-	0
HIST CHMIRS	Y	PO	0	-	-	-	-	0
HAZNET	Y	PO	0	-	-	-	-	0
HAZ GEN	Y	PO	0	-	-	-	-	0
HAZ TSD	Y	0.5	0	0	0	0	-	0
HIST MANIFEST	Y	PO	0	-	-	-	-	0
HW TRANSPORT	Y	0.125	0	0	-	-	-	0
WASTE TIRE	Y	PO	0	-	-	-	-	0
MEDICAL WASTE	Y	0.25	0	0	0	-	-	0
HIST CORTESE	Y	0.5	0	0	0	0	-	0
CDO/CAO	Y	0.5	0	0	0	0	-	0
CERS HAZ	Y	0.125	0	0	-	-	-	0
DELISTED HAZ	Y	0.5	0	0	0	0	-	0
GEOTRACKER	Y	0.125	0	0	-	-	-	0
MINE	Y	1	0	0	0	0	0	0
LIEN	Y	PO	0	-	-	-	-	0
WASTE DISCHG	Y	0.25	0	0	0	-	-	0
EMISSIONS	Y	0.25	0	0	0	-	-	0
CDL	Y	0.125	0	0	-	-	-	0

Tribal

No Tribal additional environmental record sources available for this State.

County

	_		_				
Total:	0	0	0	0	0	0	

\* PO – Property Only

\* 'Property and adjoining properties' database search radii are set at 0.25 miles.

# Executive Summary: Site Report Summary - Project Property

Мар	DB	Company/Site Name	Address	Direction	Distance	Elev Diff	Page
Key					(mi/ft)	(ft)	Number

No records found in the selected databases for the project property.

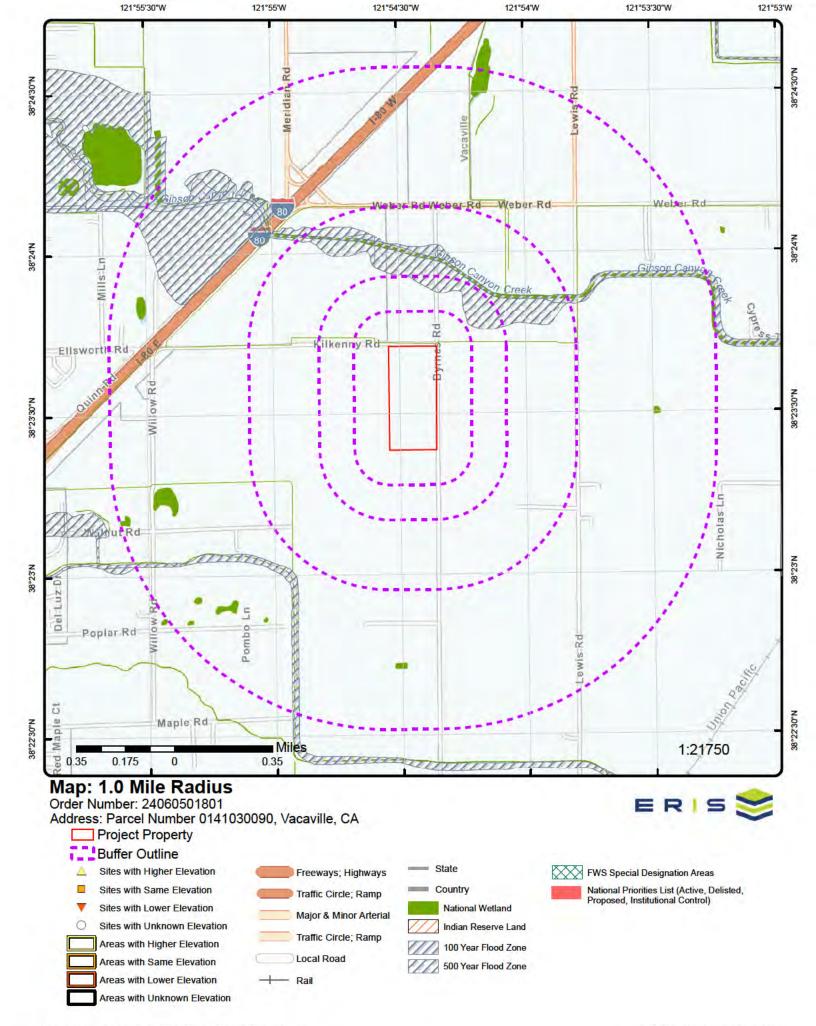
# Executive Summary: Site Report Summary - Surrounding Properties

Мар	DB	Company/Site Name	Address	Direction	Distance	Elev Diff	Page
Key					(mi/ft)	(ft)	Number

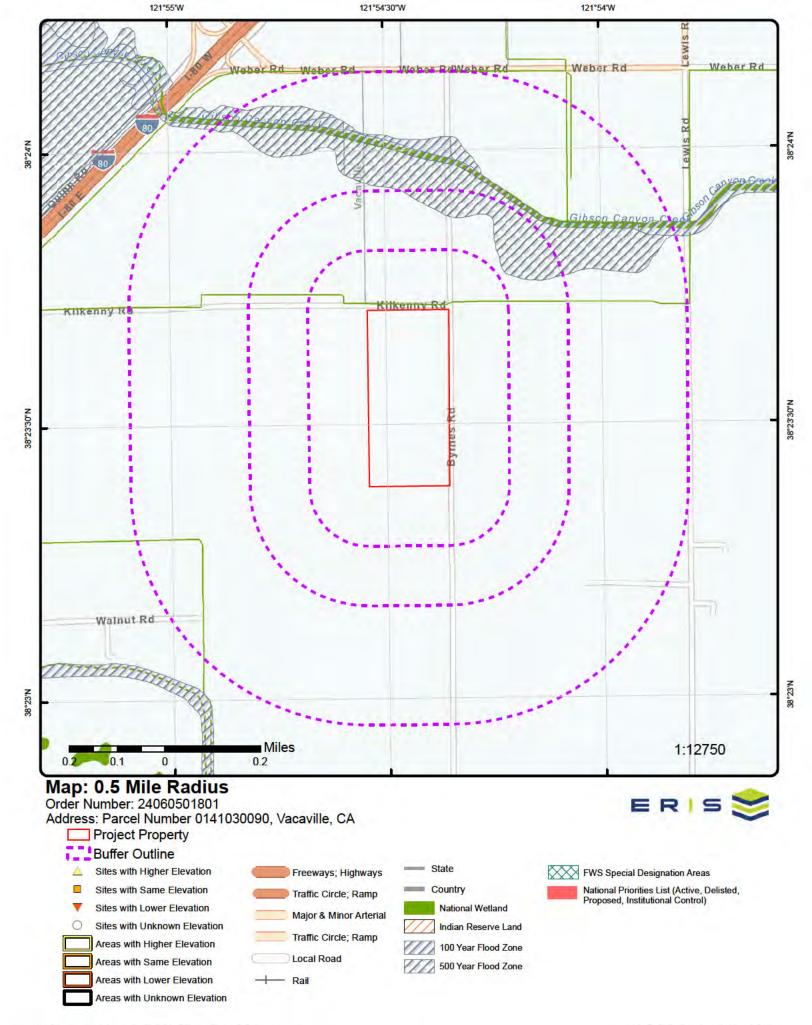
No records found in the selected databases for the surrounding properties.

# Executive Summary: Summary by Data Source

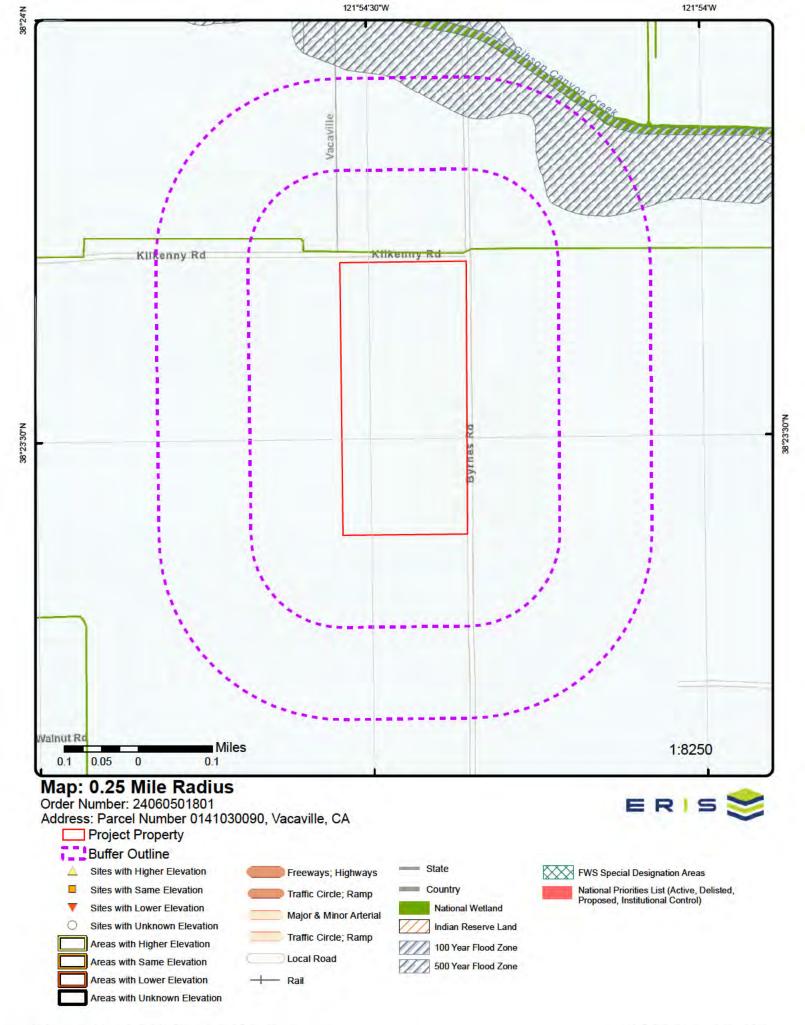
No records found in the selected databases for the project property or surrounding properties.



Source: © 2021 ESRI StreetMap Premium



Source: © 2021 ESRI StreetMap Premium



Source: © 2021 ESRI StreetMap Premium



# Aerial Year: 2023

Address: Parcel Number 0141030090, Vacaville, CA

Order Number: 24060501801

Esri, Maxar, Earthstar Geographics, and the GIS User Community



Source: ESRI World Imagery

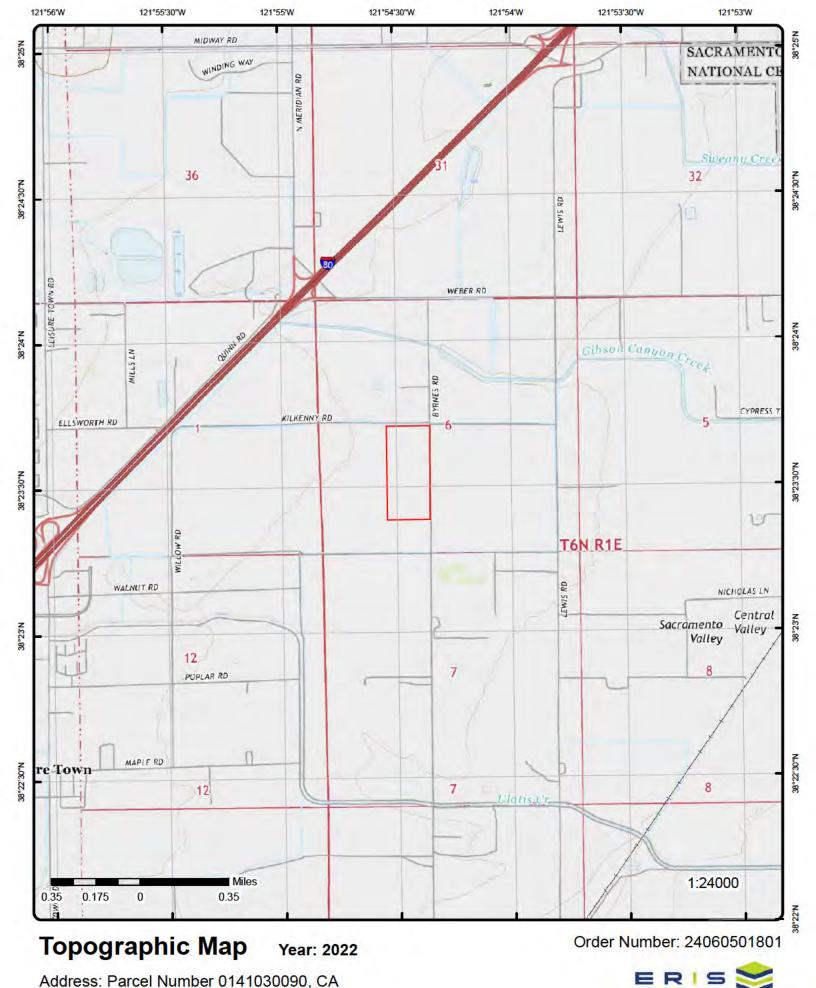
38°24'N

38°23'30"N

38°24'N

38°23"30"N

38°23'N



Address: Parcel Number 0141030090, CA

Quadrangle(s): Dixon CA, Allendale CA, Dozier CA, Elmira CA

Source: USGS Topographic Map

© ERIS Information Inc.

# Detail Report

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DE	3
			(	(19			

No records found in the selected databases for the project property or surrounding properties.

# Unplottable Summary

#### Total: 1 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID
CUPA SOLANO	GURMAIL SINGH	KILKENNY VACAVILLE CA 95688	CA		821334659

# **Unplottable Report**

<u>Site:</u>	GURMAIL SINGH KILKENNY VACAVILLE CA 95688	CA	CUPA S
Site No	e: 804473		
Prograi	<i>m:</i> 21M		
Freq:	1		

 Inv No:
 1
 Las

 Status Desc:
 INACTIVE
 Call

 Permit Expiration:
 \* Missing \*
 Insp

 Inventory Type Desc:
 Agricultural Site, SUBMITTAL TO CERS DUE
 Sup

 (122)
 02/13/13
 102/13/13

Last Service: Call Back: Inspector: Supervisor / District: CONSULTATION - PHONE/COUNTER

Dubois, Tristan SUP-DIST NO 3031

# Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than guarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

#### Standard Environmental Record Sources

#### **Federal**

#### National Priority List:

Sites on the United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Apr 22, 2024

#### National Priority List - Proposed:

Sites proposed by the United States Environmental Protection Agency (EPA), the state agency, or concerned citizens for addition to the National Priorities List (NPL) due to contamination by hazardous waste and identified by the EPA as a candidate for cleanup because it poses a risk to human health and/or the environment. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point. Government Publication Date: Apr 22, 2024

#### **Deleted NPL:**

Sites deleted from the United States Environmental Protection Agency (EPA)'s National Priorities List. 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. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point. Government Publication Date: Apr 22, 2024

#### SEMS List 8R Active Site Inventory:

The U.S. Environmental Protection Agency's (EPA) Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. This data includes SEMS sites from the List 8R Active file as well as applicable sites from the EPA's Facility Registry Service map tool.

Government Publication Date: Mar 27, 2024

#### PROPOSED NPL

**DELETED NPL** 

NPL

#### SEMS

#### 20

#### SEMS List 8R Archive Sites:

#### The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. This data includes sites from the List 8R Archived site file. Government Publication Date: Mar 27, 2024

#### Inventory of Open Dumps, June 1985:

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257). Government Publication Date: Jun 1985

#### EPA Report on the Status of Open Dumps on Indian Lands:

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities. Government Publication Date: Dec 31, 1998

#### Comprehensive Environmental Response, Compensation and Liability Information System -

CERCLIS: Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

#### **CERCLIS - No Further Remedial Action Planned:**

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means 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). 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.

Government Publication Date: Oct 25, 2013

#### **CERCLIS Liens:**

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA). This database was provided by the United States Environmental Protection Agency (EPA). Refer to SEMS LIEN as the current data source for Superfund Liens. Government Publication Date: Jan 30, 2014

#### **RCRA CORRACTS-Corrective Action:**

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Apr 8, 2024

#### RCRA non-CORRACTS TSD Facilities:

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. This database includes Non-Corrective Action sites that have indicated engagement in the treatment, storage, or disposal of hazardous waste which requires a RCRA hazardous waste permit.

Government Publication Date: Apr 8, 2024

ODI

#### **CERCLIS NFRAP**

### CERCLIS LIENS

#### **RCRA CORRACTS**

#### RCRA TSD

#### 

CERCLIS

SEMS ARCHIVE

#### RCRA Generator List:

# RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste. *Government Publication Date: Apr 8, 2024*

#### RCRA Small Quantity Generators List:

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month. *Government Publication Date: Apr 8, 2024* 

#### RCRA Very Small Quantity Generators List:

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Apr 8, 2024

#### RCRA Non-Generators:

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Apr 8, 2024

#### **RCRA Sites with Controls:**

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. *Government Publication Date: Apr 8, 2024* 

#### Federal Engineering Controls-ECs:

List of Engineering controls (ECs) made available by the United States Environmental Protection Agency (EPA). ECs encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. The EC listing includes remedy component data from Superfund decision documents for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

#### Federal Institutional Controls- ICs:

List of Institutional controls (ICs) made available by the United States Environmental Protection Agency (EPA). ICs are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site. The IC listing includes remedy component data from Superfund decision documents for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place. *Government Publication Date: Apr 22, 2024* 

### RCRA SQG

RCRA VSOG

### RCRA NON GEN

#### FED ENG

#### **FED INST**

# RCRA CONTROLS

#### erisinfo.com | Environmental Risk Information Services

#### Land Use Control Information System:

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

Government Publication Date: Sep 1, 2006

#### Institutional Control Boundaries at NPL sites:

Boundaries of Institutional Control areas at sites on the United States Environmental Protection Agency (EPA)'s National Priorities List, or Proposed or Deleted, made available by the EPA's Shared Enterprise Geodata and Services (SEGS). United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. Institutional controls are non-engineered instruments such as administrative and legal controls that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Government Publication Date: Apr 22, 2024

#### Emergency Response Notification System:

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

#### Emergency Response Notification System:

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

#### **Emergency Response Notification System:**

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

Government Publication Date: Feb 20, 2024

#### The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database:

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 protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This data is provided by the United States Environmental Protection Agency (EPA) and includes Brownfield sites from the Cleanups in My Community (CIMC) web application. Government Publication Date: Feb 7, 2024

#### FEMA Underground Storage Tank Listing:

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

#### Facility Response Plan:

23

This listing contains facilities that have submitted Facility Response Plans (FRPs) to the U.S. Environmental Protection Agency (EPA). Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit FRPs. Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments. This listing includes FRP facilities from an applicable EPA FOIA file and Homeland Infrastructure Foundation-Level Data (HIFLD) data file.

Government Publication Date: Jan 9, 2024

#### **Delisted Facility Response Plans:**

Facilities that once appeared in - and have since been removed from - the list of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments. Government Publication Date: Jan 9, 2024

FED BROWNFIELDS

### FEMA UST

FRP

### DELISTED FRP

### Order No: 24060501801

# LUCIS

NPL IC

ERNS 1982 TO 1986

ERNS 1987 TO 1989

#### FRNS

#### Historical Gas Stations:

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930. *Government Publication Date: Jul 1. 1930* 

Petroleum Refineries:

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data. *Government Publication Date: Feb 28, 2024* 

#### Petroleum Product and Crude Oil Rail Terminals:

A list of petroleum product and crude oil rail terminals from the U.S. Energy Information Administration (EIA), as well as petroleum terminals sourced from the Federal Communications Commission Data hosted by the Homeland Infrastructure Foundation-Level Database. Data includes operable bulk petroleum product terminals with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil with activity between 2017 and 2018. EIA petroleum product terminal data comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings.

Government Publication Date: Sep 22, 2023

#### LIEN on Property:

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) provides Lien details on applicable properties, such as the Superfund lien on property activity, the lien property information, and the parties associated with the lien. *Government Publication Date: Mar 27, 2024* 

#### Superfund Decision Documents:

This database contains a list of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include completed Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD) for active and archived sites stored in the Superfund Enterprise Management System (SEMS), along with other associated memos and files. This information is maintained and made available by the U.S. Environmental Protection Agency. *Government Publication Date: Mar 27, 2024* 

#### Formerly Utilized Sites Remedial Action Program:

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

Government Publication Date: Mar 4, 2017

#### <u>State</u>

#### State Response Sites:

A list of identified confirmed release sites where the Department of Toxic Substances Control (DTSC) is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk. This database is state equivalent NPL. *Government Publication Date: Feb 15, 2024* 

EnviroStor Database:

The EnviroStor Data Management System is made available by the Department of Toxic Substances Control (DTSC). Includes Corrective Action sites, Tiered Permit sites, Historical Sites and Evaluation/Investigation sites. This database is state equivalent CERCLIS. *Government Publication Date: Feb 15, 2024* 

#### Delisted State Response Sites:

Sites removed from the list of State Response Sites made available by the EnviroStor Data Management System, Department of Toxic Substances Control (DTSC).

Government Publication Date: Feb 15, 2024

RFFN

#### SUPERFUND ROD

SEMS LIEN

#### DOE FUSRAP

#### ENVIROSTOR

RESPONSE

#### DELISTED ENVS

#### HIST GAS STATIONS

### Solid Waste Information System (SWIS):

The Solid Waste Information System (SWIS) database made available by the Department of Resources Recycling and Recovery (CalRecycle) contains information on solid waste facilities, operations, and disposal sites throughout the State of California. The types of facilities found in this database include landfills, transfer stations, material recovery facilities, composting sites, transformation facilities, waste tire sites, and closed disposal sites. *Government Publication Date: May 10, 2024* 

#### Solid Waste Disposal Sites with Waste Constituents Above Hazardous Waste Levels:

This is a list of solid waste disposal sites identified by California State Water Resources Control Board with waste constituents above hazardous waste levels outside the waste management unit.

Government Publication Date: Sep 20, 2006

#### Waste Management Unit Database:

The Waste Management Unit Database System tracks and inventories waste management units. CCR Title 27 contains criteria stating that Waste Management Units are classified according to their ability to contain wastes. Containment shall be determined by geology, hydrology, topography, climatology, and other factors relating to the ability of the Unit to protect water quality. Water Code Section 13273.1 requires that operators submit a water quality solid waste assessment test (SWAT) report to address leak status. The WMUDS was last updated by the State Water Resources control board in 2000.

Government Publication Date: Jan 1, 2000

#### EnviroStor Hazardous Waste Facilities:

### A list of hazardous waste facilities including permitted, post-closure and historical facilities found in the Department of Toxic Substances Control (DTSC) EnviroStor database.

Government Publication Date: Feb 15, 2024

#### Sites Listed in the Solid Waste Assessment Test (SWAT) Program Report:

In a 1993 Memorandum of Understanding, the State Water Resources Control Board (SWRCB) agreed to submit a comprehensive report on the Solid Waste Assessment Test (SWAT) Program to the California Integrated Waste Management Board (CIWMB). This report summarizes the work completed to date on the SWAT Program, and addresses both the impacts that leakage from solid waste disposal sites (SWDS) may have upon waters of the State and the actions taken to address such leakage.

Government Publication Date: Dec 31, 1995

#### Construction and Demolition Debris Recyclers:

This listing of Construction and Demolition Debris Recyclers is maintained by the California Intergrated Waste Management Board-common C&D materials include lumber, drywall, metals, masonry (brick, concrete, etc.), carpet, plastic, pipe, rocks, dirt, paper, cardboard, or green waste related to land development.

Government Publication Date: Jun 20, 2018

#### Recycling Centers:

This list of Certified Recycling Centers that are operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery. *Government Publication Date: Apr 8, 2024* 

#### Listing of Certified Processors:

This list of Certified Processors that are operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery. *Government Publication Date: Apr 29, 2024* 

Listing of Certified Dropoff, Collection, and Community Service Programs:

This list of Certified Dropoff, Collection, and Community Service Programs (non-buyback) operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery. *Government Publication Date: Apr 17, 2024* 

Land Disposal Sites:

Land Disposal Sites in GeoTracker, the State Water Resources Control Board (SWRCB)'s data management system. The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units. Waste management units include waste piles, surface impoundments, and landfills.

Government Publication Date: Mar 15, 2024

WMUD

SWRCB SWF

### HWP

**SWAT** 

### C&D DEBRIS RECY

### RECYCLING

PROCESSORS

## CONTAINER RECY

#### LDS

### erisinfo.com | Environmental Risk Information Services

### Leaking Underground Fuel Tank Reports:

#### List of Leaking Underground Storage Tanks within the Cleanup Sites data in GeoTracker database. GeoTracker is the State Water Resources Control Board's (SWRCB) data management system for managing sites that impact groundwater, especially those that require groundwater cleanup (Underground Storage Tanks, Department of Defense and Site Cleanup Program) as well as permitted facilities such as operating Underground Storage Tanks. The Leak Prevention Program that overlooks LUST sites is the SWRCB in California's Environmental Protection Agency. Government Publication Date: Mar 15, 2024

#### **Delisted Leaking Storage Tanks:**

List of Leaking Underground Storage Tanks (LUST) cleanup sites removed from GeoTracker, the State Water Resources Control Board (SWRCB)'s database system, as well as sites removed from the SWRCB's list of UST Case closures. Government Publication Date: Apr 4, 2024

#### Permitted Underground Storage Tank (UST) in GeoTracker:

List of Permitted Underground Storage Tank (UST) sites made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA). Government Publication Date: Feb 15, 2024

#### Proposed Closure of Underground Storage Tank Cases:

This listing includes Proposed Closure of Underground Storage Tank (UST) Cases which are being considered for closure by either the State Water Resources Control Board at a Future Board Meeting or the Executive Director that have been posted for a 60-day public comment period, and Closure of UST Cases with Closure Denials and Approved Orders. The lists are provided by the California Water Boards. Government Publication Date: Apr 4, 2024

#### Historical Hazardous Substance Storage Information Database:

The Historical Hazardous Substance Storage database contains information collected in the 1980s from facilities that stored hazardous substances. The information was originally collected on paper forms, was later transferred to microfiche, and recently indexed as a searchable database. When using this database, please be aware that it is based upon self-reported information submitted by facilities which has not been independently verified. It is unlikely that every facility responded to the survey and the database should not be expected to be a complete inventory of all facilities that were operating at that time. This database is maintained by the California State Water Resources Control Board's (SWRCB) Geotracker. Government Publication Date: Aug 27, 2015

# Statewide Environmental Evaluation and Planning System:

The Statewide Environmental Evaluation and Planning System (SWEEPS) is a historical listing of active and inactive underground storage tanks made available by the California State Water Resources Control Board (SWRCB). Government Publication Date: Oct 1, 1994

#### Aboveground Storage Tanks:

A statewide list from 2009 of aboveground storage tanks (ASTs) made available by the Cal FIRE Office of the State Fire Marshal (OSFM). This list is no longer maintained or updated by the Cal FIRE OSFM.

Government Publication Date: Aug 31, 2009

### SWRCB Historical Aboveground Storage Tanks:

A list of aboveground storage tanks made available by the California State Water Resources Control Board (SWRCB). Effective January 1, 2008, the Certified Unified Program Agencies (CUPAs) are vested with the responsibility and authority to implement the Aboveground Petroleum Storage Act (APSA).

Government Publication Date: Dec 1, 2007

#### Oil and Gas Facility Tanks:

Locations of oil and gas tanks that fall under the jurisdiction of the Geologic Energy Management Division of the California Department of Conservation (CalGEM) (CCR 1760). CalGEM was formerly the Division of Oil, Gas, and Geothermal Resources (DOGGR). Government Publication Date: May 9, 2024

#### **Delisted Storage Tanks:**

26

This database contains a list of storage tank sites that were removed by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA) and the Cal FIRE Office of State Fire Marshal (OSFM). Government Publication Date: May 9, 2024

# AST

#### TANK OIL GAS

AST SWRCB

### DELISTED TNK

#### LUST

### DELISTED LST

**UST CLOSURE** 

UST

HHSS

# **UST SWEEPS**

#### erisinfo.com | Environmental Risk Information Services

#### California Environmental Reporting System (CERS) Tanks:

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs. The CalEPA oversees the statewide implementation of the Unified Program which applies regulatory standards to protect Californians from hazardous waste and materials. Government Publication Date: Jan 17, 2024

### Delisted California Environmental Reporting System (CERS) Tanks:

This database contains a list of Aboveground Petroleum Storage and Underground Storage Tank sites that were removed from in the California Environmental Protection Agency (CalEPA) Regulated Site Portal. Government Publication Date: Jan 17, 2024

### Historical Hazardous Substance Storage Container Information - Facility Summary:

The State Water Resources Control Board maintained the Hazardous Substance Storage Containers listing and inventory in th 1980s. This facility summary lists historic tank sites where the following container types were present: farm motor vehicle fuel tanks; waste tanks; sumps; pits, ponds, lagoons, and others; and all other product tanks. This set, published in May 1988, lists facility and owner information, as well as the number of containers. This data is historic and will not be updated.

Government Publication Date: May 27, 1988

### Site Mitigation and Brownfields Reuse Program Facility Sites with Land Use Restrictions:

The Department of Toxic Substances Control (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 land use restrictions that are active. Some sites have multiple land use restrictions. Government Publication Date: Feb 15, 2024

#### **CALSITES Database:**

This historical database was maintained by the Department of Toxic Substance Control (DTSC) for more than a decade. CALSITES contains information on Brownfield properties with confirmed or potential hazardous contamination. In 2006, DTSC introduced EnviroStor as the latest Brownfields site database.

Government Publication Date: May 1, 2004

#### Hazardous Waste Management Program Facility Sites with Deed / Land Use Restrictions:

The Department of Toxic Substances Control (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.

Government Publication Date: Feb 18, 2021

#### Deed Restrictions and Land Use Restrictions:

List of Deed Restrictions, Land Use Restrictions and Covenants in GeoTracker made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency. A deed restriction (land use covenant) may be required to facilitate the remediation of past environmental contamination and to protect human health and the environment by reducing the risk of exposure to residual hazardous materials. Government Publication Date: Mar 15, 2024

### Voluntary Cleanup Program:

List of sites in the Voluntary Cleanup Program made available by the Department of Toxic Substances and Control (DTSC). The Voluntary Cleanup Program was designed to respond to lower priority sites. Under the Voluntary Cleanup Program, DTSC enters site-specific agreements with project proponents for DTSC oversight of site assessment, investigation, and/or removal or remediation activities, and the project proponents agree to pay DTSC's reasonable costs for those services.

Government Publication Date: Feb 15, 2024

#### GeoTracker Cleanup Program Sites:

A list of Cleanup Program sites in the state of California made available by The State Water Resources Control Board (SWRCB) of the California Environmental Protection Agency (EPA). SWRCB tracks leaking underground storage tank cleanups as well as other water board cleanups. Government Publication Date: Mar 15, 2024

#### **Delisted Cleanup Program Sites:**

27

CALSITES

VCP

DEED

**CLEANUP SITES** 

# DELISTED CLEANUP

### CERS TANK

HIST TANK

LUR

**DELISTED CTNK** 

#### HLUR

A list of Cleanup Program sites which were once included - and have since been removed from - the list of Cleanup Program Sites in GeoTracker. GeoTracker is the State Water Resource Control Boards' data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Government Publication Date: Mar 15, 2024

#### **Delisted County Records:**

Records removed from county or CUPA databases. Records may be removed from the county lists made available by the respective county departments because they are inactive, or because they have been deemed to be below reportable thresholds. Government Publication Date: May 16, 2024

#### Tribal

#### Leaking Underground Storage Tanks on Tribal/Indian Lands:

This list of leaking underground storage tanks (LUSTs) on Tribal/Indian Lands in Region 9, which includes California, is made available by the United States Environmental Protection Agency (EPA). Government Publication Date: Oct 25, 2023

#### Underground Storage Tanks on Tribal/Indian Lands:

This list of underground storage tanks (USTs) on Tribal/Indian Lands in Region 9, which includes California, is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Oct 25, 2023

#### **Delisted Tribal Leaking Storage Tanks:**

Leaking Underground Storage Tank (LUST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian LUST lists made available by the United States Environmental Protection Agency (EPA). Government Publication Date: Oct 25, 2023

#### Delisted Tribal Underground Storage Tanks:

Underground Storage Tank (UST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian UST lists made available by the United States Environmental Protection Agency (EPA). Government Publication Date: Oct 25, 2023

#### **County**

#### Solano County - Local Oversight Program List:

A list of Leaking Underground Storage Tank (LUST) facilities in the Solano County. This list is made available by the Solano County Environmental Health Services. Since April 1993, the State Water Resources Control Board has contracted with the County of Solano to provide regulatory oversight for the cleanup of LUSTs under Local Oversight Program (LOP) contract. Government Publication Date: Aug 20, 2019

#### Solano County - Underground Storage Tanks List:

A list of registered Underground Storage Tanks (USTs) in the County of Solano made available by the Solano County Environmental Health Services Division. There are approximately 190 facilities throughout the county that are subject to the regulatory requirements of the UST program. Government Publication Date: Oct 26, 2021

Solano County - CUPA List:

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A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Solano. This list is made available by Solano County Environmental Health Division which has been certified by CalEPA to implement the Unified program as a CUPA. Government Publication Date: Dec 3, 2020

Additional Environmental Record Sources

### **UST SOLANO**

## **INDIAN LUST**

**DELISTED COUNTY** 

**INDIAN UST** 

### DELISTED INDIAN UST

DELISTED INDIAN LST

**CUPA SOLANO** 

### LOP SOLANO

#### Federal

#### PFAS Greenhouse Gas Emissions Data:

The U.S. Environmental Protection Agency's Greenhouse Gas Reporting Program (GHGRP) collects Greenhouse Gas (GHG) data from large emitting facilities (25,000 metric tons of carbon dioxide equivalent (CO2e) per year), and suppliers of fossil fuels and industrial gases that results in GHG emissions when used. Includes GHG emissions data for facilities that emit or have emitted since 2010 chemicals identified in EPA's CompTox Chemicals Dashboard list of PFAS without explicit structures and list of PFAS structures by DSSTox. PFAS emissions data has been identified for facilities engaged in the following industrial processes: Aluminum Production (GHGRP Subpart F), HCFC-22 Production and HFC-23 Destruction (Subpart O), Electronics Manufacturing (Subpart I), Fluorinated Gas Production (Subpart L), Magnesium Production (Subpart T), Electrical Transmission and Distribution Equipment Use (Subpart DD), and Manufacture of Electric Transmission and Distribution Equipment (Subpart S). Over time, other industrial processes with required GHGRP reporting may include PFAS emissions data and the list of reportable gases may change over time. *Government Publication Date: May 9, 2024* 

#### On-Scene Coordinator Response Sites:

This list of On-Scene Coordinator (OSC) Response Sites is provided by the U.S. Environmental Protection Agency (EPA). OSCs are the federal officials responsible for monitoring or directing responses to all oil spills and hazardous substance releases reported to the federal government. OSCs coordinate all federal efforts with, and provide support and information to local, state, and regional response communities. An OSC is an agent of either EPA or the U.S. Coast Guard (USCG), depending on where the incident occurs. EPA's OSCs have primary responsibility for spills and releases to inland areas and waters. USCG OSCs have responsibility for coastal waters and the Great Lakes. In general, an OSC has the following key responsibilities during and after a response: Assessment, Monitoring, Response Assistance, and Evaluation. *Government Publication Date: Apr 4, 2024* 

#### Facility Registry Service/Facility Index:

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the U.S. Environmental Protection Agency (EPA). *Government Publication Date: Feb 9, 2024* 

#### Toxics Release Inventory (TRI) Program:

The U.S. Environmental Protection Agency's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of toxic chemicals from U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. There are currently 770 individually listed chemicals and 33 chemical categories covered by the TRI Program. Facilities that manufacture, process or otherwise use these chemicals in amounts above established levels must submit annual reporting forms for each chemical. Note that the TRI chemical list does not include all toxic chemicals used in the U.S. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment. This database includes TRI Reporting Data for calendar years 1987 through 2021 and Preliminary Data for 2022. *Government Publication Date: Sep 20, 2023* 

#### PFOA/PFOS Contaminated Sites:

This list of Superfund Sites with Per- and Polyfluoroalkyl Substances (PFAS) detections is made available by the U.S. Environmental Protection Agency (EPA) in their PFAS Analytic Tools data, previously the list was obtained by EPA FOIA requests. EPA's Office of Land and Emergency Management and EPA Regional Offices maintain what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment. Limitations: Detections of PFAS at National Priorities List (NPL) sites do not mean that people are at risk from PFAS, are exposed to PFAS, or that the site is the source of the PFAS. The information in the Superfund NPL and Superfund Alternative Agreement (SAA) PFAS detection site list is years old and may not be accurate today. Site information such as site name, site ID, and location has been confirmed for accuracy; however, PFAS-related information such as media sampled, drinking water being above the health advisory, or mitigation efforts has not been verified. For Federal Facilities data, the other Federal agencies (OFA) are the lead agency for their data and provided them to EPA.

Government Publication Date: Mar 19, 2024

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#### Federal Agency Locations with Known or Suspected PFAS Detections:

List of Federal agency locations with known or suspected detections of Per- and Polyfluoroalkyl Substances (PFAS), made available by the U.S. Environmental Protection Agency (EPA) in their PFAS Analytic Tools data. EPA outlines that these data are gathered from several federal entities, such as the Federal Superfund program, Department of Defense (DOD), National Aeronautics and Space Administration, Department of Transportation, and Department of Energy. The dates this data was extracted for the PFAS Analytic Tools range from 2022 to 2024. Sites on this list do not necessarily reflect the source/s of PFAS contamination and detections do not indicate level of risk or human exposure at the site. Agricultural notifications in this data are limited to DOD sites only. At this time, the EPA is aware that this list is not comprehensive of all Federal agencies. *Government Publication Date: Apr 1, 2024* 

#### PFAS GHG

#### **OSC RESPONSE**

#### FINDS/FRS lations or of

TRIS

#### PFAS NPL

### PFAS FED SITES

#### SSEHRI PFAS Contamination Sites:

This PFAS Contamination Site Tracker database is compiled by the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents, and this is cited in the tracker. Locations for the Known PFAS Contamination Sites are sourced from the PFAS Sites and Community Resources Map, credited to the Northeastern University's PFAS Project Lab, Silent Spring Institute, and the PFAS-REACH team. Disclaimer: The source conveys the data undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Access the following source link for the most current information: https://pfasproject.com/pfas-sites-and-community-resources/

Government Publication Date: May 19, 2023

#### National Response Center PFAS Spills:

This Per- and Poly-Fluoroalkyl Substances (PFAS) Spills dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. The National Response Center (NRC), operated by the U.S. Coast Guard, is the designated federal point of contact for reporting all oil, chemical, and other discharges into the environment, for the United States and its territories. This dataset contains NRC spill information from 1990 to the present that is restricted to records associated with PFAS and PFAS-containing materials. Incidents are filtered to include only records with a "Material Involved" or "Incident Description" related to Aqueous Film Forming Foam (AFFF). The keywords used to filter the data included "AFFF," "Fire Fighting Foam," "Aqueous Film Forming Foam," "Fire Suppressant Foam, "PFAS," "PERFL," "PFOA," "PFOS," and "Genx." Limitations: The data from the NRC website contains initial incident data that has not been validated or investigated by a federal/state response agency. Keyword searches may misidentify some incident reports that do not contain PFAS. This dataset should also not be considered to be exhaustive of all PFAS spills/release incidents.

Government Publication Date: Apr 17, 2024

#### PFAS NPDES Discharge Monitoring:

This list of National Pollutant Discharge Elimination System (NPDES) permitted facilities with required monitoring for Per- and Polyfluoroalkyl (PFAS) Substances is made available via the U.S. Environmental Protection Agency (EPA)'s PFAS Analytic Tools. Any point-source wastewater discharger to waters of the United States must have a NPDES permit, which defines a set of parameters for pollutants and monitoring to ensure that the discharge does not degrade water quality or impair human health. This list includes NPDES permitted facilities associated with permits that monitor for Per- and Polyfluoroalkyl Substances (PFAS), limited to the years 2007 - present. EPA further advises the following regarding these data: currently, fewer than half of states have required PFAS monitoring for at least one of their permittees, and fewer states have established PFAS effluent limits for permittees. For states that may have required monitoring, some reporting and data transfer issues may exist on a state-by-state basis. *Government Publication Date: May 6, 2024* 

#### Perfluorinated Alkyl Substances (PFAS) from Toxic Release Inventory:

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a per- or polyfluoroalkyl (PFAS) substance included in the U.S. Environmental Protection Agency's (EPA) consolidated PFAS Master List of PFAS Substances. Encompasses Toxics Release Inventory records included in the EPA PFAS Analytic Tools. The EPA's TRI database currently tracks information on disposal or releases of 770 individually listed toxic chemicals and 33 chemical categories from thousands of U.S. facilities and details about how facilities manage those chemicals through recycling, energy recovery, and treatment. This listing includes TRI Reporting Data for calendar years 1987 through 2021 and Preliminary Data for 2022. *Government Publication Date: Sep 20, 2023* 

#### Perfluorinated Alkyl Substances (PFAS) Water Quality:

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated Master List of PFAS Substances. *Government Publication Date: Jul 20, 2020* 

#### PFAS TSCA Manufacture and Import Facilities:

The U.S. Environmental Protection Agency (EPA) issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufactures and facilities that manufacture or import chemical substances to report data to EPA. This list is specific only to TSCA Manufacture and Import Facilities with reported per- and poly-fluoroalkyl (PFAS) substances. Data file is sourced from EPA's PFAS Analytic Tools TSCA dataset which includes CDR/Inventory Update Reporting data from 1998 up to 2020. Disclaimer: This data file includes production and importation data for chemicals identified in EPA's CompTox Chemicals Dashboard list of PFAS without explicit structures and list of PFAS structures in DSSTox. Note that some regulations have specific chemical structure requirements that define PFAS differently than the lists in EPA's CompTox Chemicals Dashboard. Reporting information on manufactured or imported chemical substance amounts should not be compared between facilities, as some companies claim Chemical Data Reporting Rule data fields for PFAS information as Confidential Business Information. *Government Publication Date: Jan 5, 2023* 

### ERNS PFAS

PFAS NPDES

PFAS SSEHRI

# PFAS WATER

PFAS TRI

# PFAS TSCA

#### Order No: 24060501801

#### PFAS Waste Transfers from RCRA e-Manifest :

#### This Per- and Poly-Fluoroalkyl Substances (PFAS) Waste Transfers dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. Every shipment of hazardous waste in the U.S. must be accompanied by a shipment manifest, which is a critical component of the cradle-to-grave tracking of wastes mandated by the Resource Conservation and Recovery Act (RCRA). According to the EPA, currently no Federal Waste Code exists for any PFAS compounds. To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: • PFAS • PFOA • PFOS • PERFL • AFFF • GENX • GEN-X (plus the Vermont state-specific waste codes). Limitations: Amount or concentration of PFAS being transferred cannot be determined from the manifest information. Keyword searches may misidentify some manifest records that do not contain PFAS. This dataset should also not be considered to be exhaustive of all PFAS waste transfers.

Government Publication Date: Apr 29, 2024

#### **PFAS Industry Sectors:**

This Per- and Poly-Fluoroalkyl Substances (PFAS) Industry Sectors dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. The EPA developed the dataset from various sources that show which industries may be handling PFAS including: EPA's Enforcement and Compliance History Online (ECHO) records restricted to potential PFAS-handling industry sectors; ECHO records for Fire Training Sites identified where fire-fighting foam may have been used in training exercises; and 14 CFR Part 139 Airports compiled from historic and current records from the FAA Airport Data and Information Portal. Since July 2006, all certificated Part 139 Airports are required to have fire-fighting foam onsite that meet certain military specifications, which to date have been fluorinated (Aqueous Film Forming Foam). Limitations: Inclusion in this dataset does not indicate that PFAS are being manufactured, processed, used, or released by the facility. Listed facilities potentially handle PFAS based on their industrial profile, but are unconfirmed by the EPA. Keyword searches in ECHO for Fire Training sites may misidentify some facilities and should not be considered to be an exhaustive list of fire training facilities in the U.S.

Government Publication Date: Apr 15, 2024

#### Hazardous Materials Information Reporting System:

The Hazardous Materials Incident Reporting System (HMIRS) database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration.

Government Publication Date: Nov 26, 2023

#### National Clandestine Drug Labs:

The U.S. Department of Justice ("the Department"), Drug Enforcement Administration (DEA), provides this data 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.

Government Publication Date: Nov 30, 2023

#### Toxic Substances Control Act:

The U.S. Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule. The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI). EPA CDR collections occur approximately every four years and reporting requirements change per collection.

Government Publication Date: May 12, 2022

#### Hist TSCA:

31

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: Dec 31, 2006

#### FTTS Administrative Case Listing:

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

### Order No: 24060501801

PFAS IND

**PFAS E-MANIFEST** 

### **HMIRS**

### NCDL

# TSCA

#### HIST TSCA

### **FTTS ADMIN**

#### FTTS Inspection Case Listing:

#### An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

#### Potentially Responsible Parties List:

Early in the site cleanup process, the U.S. Environmental Protection Agency (EPA) conducts a search to find the Potentially Responsible Parties (PRPs). The EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site. This listing contains PRPs, Noticed Parties, at sites in the EPA's Superfund Enterprise Management System (SEMS). Government Publication Date: Apr 22, 2024

#### State Coalition for Remediation of Drycleaners Listing:

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin. Since 2017, the SCRD no longer maintains this data, refer to applicable state source data where available. Government Publication Date: Nov 08, 2017

#### Integrated Compliance Information System (ICIS):

The Integrated Compliance Information System (ICIS) database contains integrated enforcement and compliance information across most of U.S. Environmental Protection Agency's (EPA) programs. The vision for ICIS is to replace EPA's independent databases that contain enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions and a subset of the Permit Compliance System (PCS), which supports the National Pollutant Discharge Elimination System (NPDES). This information is maintained by the EPA Headquarters and at the Regional offices. A future release of ICIS will completely replace PCS and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities that support compliance and enforcement programs, including incident tracking, compliance assistance, and compliance monitoring.

Government Publication Date: Aug 26, 2023

#### **Drycleaner Facilities:**

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) data as made available by the U.S. Environmental Protection Agency (EPA), sourced from the ECHO Exporter file. The EPA tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: Jan 20, 2024

#### **Delisted Drycleaner Facilities:**

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

Government Publication Date: Jan 20, 2024

#### Formerly Used Defense Sites:

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DOD) is responsible for an environmental restoration. The FUDS Annual Report to Congress (ARC) is published by the U.S. Army Corps of Engineers (USACE). This data is compiled from the USACE's Geospatial FUDS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) FUDS dataset which applies to the Fiscal Year 2021 FUDS Inventory. Government Publication Date: May 15, 2023

#### FUDS Munitions Response Sites:

Boundaries of Munitions Response Sites (MRS), published with the Formerly Used Defense Sites (FUDS) Annual Report to Congress (ARC) by the U.S. Army Corps of Engineers (USACE). An MRS is a discrete location within a Munitions response area (MRA) that is known to require a munitions response. An MRA means any area on a defense site that is known or suspected to contain unexploded ordnance (UXO), discarded military munitions (DMM), or munitions constituents (MC). This data is compiled from the USACE's Geospatial MRS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) MRS dataset.

Government Publication Date: May 15, 2023

#### Former Military Nike Missile Sites:

32

#### FTTS INSP

PRP

ICIS

#### SCRD DRYCLEANER

### FED DRYCLEANERS

#### DELISTED FED DRY

FUDS

#### **FUDS MRS**

#### FORMER NIKE

Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination. *Government Publication Date: Dec 2, 1984* 

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by

#### PHMSA Pipeline Safety Flagged Incidents:

This list of flagged pipeline incidents is made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types. Accidents reported on hazardous liquid gravity lines (§195.13) and reporting-regulated-only hazardous liquid gathering lines (§195.15) and incidents reported on Type R gas gathering (§192.8(c)) are not included in the flagged incident file data.

Government Publication Date: May 6, 2024

#### Material Licensing Tracking System (MLTS):

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016. *Government Publication Date: May 11, 2021* 

#### Historic Material Licensing Tracking System (MLTS) sites:

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State. *Government Publication Date: Jan 31, 2010* 

#### Mines Master Index File:

The Master Index File (MIF) is provided by the United States Department of Labor, Mine Safety and Health Administration (MSHA). This file, which was originally created in the 1970's, contained many Mine-IDs that were invalid. MSHA removes invalid IDs from the MIF upon discovery. MSHA applicable data includes the following: all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970; mine addresses for all mines in the database except for Abandoned mines prior to 1998 from MSHA's legacy system (addresses may or may not correspond with the physical location of the mine itself); violations that have been assessed penalties as a result of MSHA inspections beginning on 1/1/2000; and violations issued as a result of MSHA inspections conducted beginning on 1/1/2000.

Government Publication Date: Feb 5, 2024

#### Surface Mining Control and Reclamation Act Sites:

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (OSMRE) to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). This inventory contains information on the type and extent of Abandoned Mine Land (AML) impacts, as well as information on the cost associated with the reclamation of those problems. The data is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed. Disclaimer: Per the OSMRE, States and tribes who enter their data into eAMLIS (AML Inventory System) may truncate their latitude and longitude so the precise location of usually dangerous AMLs is not revealed in an effort to protect the public from searching for these AMLs, most of which are on private property. If more precise location information is needed, please contact the applicable state/tribe of interest.

Government Publication Date: Jun 13, 2023

#### Mineral Resource Data System:

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps. *Government Publication Date: Mar 15, 2016* 

DOE Legacy Management Sites:



HIST MI TS

**PIPELINE INCIDENT** 

### MINES

#### SMCRA

# MRDS

#### LM SITES

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) currently manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The LM manages sites with diverse regulatory drivers (statutes or programs that direct cleanup and management requirements at DOE sites) or as part of internal DOE or congressionally-recognized programs, such as but not limited to: Formerly Utilized Sites Remedial Action Program (FUSRAP), Uranium Mill Tailings Radiation Control Act (UMTRCA Title I, Tile II), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA), Decontamination and Decommissioning (D&D), Nuclear Waste Policy Act (NWPA). This site listing includes data exported from the DOE Office of LM' s Geospatial Environmental Mapping System (GEMS). GEMS Data disclaimer: The DOE Office of LM makes no representation or warranty, expressed or implied, regarding the use, accuracy, availability, or completeness of the data presented herein. Government Publication Date: Dec 12, 2023

#### Alternative Fueling Stations:

This list of alternative fueling stations is sourced from the Alternative Fuels Data Center (AFDC). The U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy launched the AFDC in 1991 as a repository for alternative fuel vehicle performance data, which provides a wealth of information and data on alternative and renewable fuels, advanced vehicles, fuel-saving strategies, and emerging transportation technologies. The data includes Biodiesel (B20 and above), Compressed Natural Gas (CNG), Electric, Ethanol (E85), Hydrogen, Liquefied Natural Gas (LNG), Propane (LPG), and Renewable Diesel (R20 and above) fuel type locations.

Government Publication Date: Apr 30, 2024

#### Superfunds Consent Decrees:

This list of Superfund consent decrees is provided by the Department of Justice, Environment & Natural Resources Division (ENRD) through a Freedom of Information Act (FOIA) applicable file. This listing includes Cases filed since 2010 limited to the following: Consent Decrees for CERCLA or Superfund Sites filed and/or as proposed within the ENRD's Case Management System (CMS); and applicable ENRD's Environmental Defense Section (EDS) CERCLA Cases with "Consent" in History Note. CMS may not reflect the latest developments in a case, nor can the agency guarantee the accuracy of the data. ENRD Disclaimer: Congress excluded three discrete categories of law enforcement and national security records from the requirements of the FOIA; response is limited to those records that are subject to the requirements of the FOIA; however, this should not be taken as an indication that excluded records do, or do not, exist.

Government Publication Date: Sep 15, 2023

#### Air Facility System:

This EPA retired Air Facility System (AFS) dataset contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners. AFS does not contain data on facilities that are solely asbestos demolition and/or renovation contractors, or landfills. ECHO Clean Air Act data from AFS are frozen and reflect data as of October 17, 2014; the EPA retired this system for Clean Air Act stationary sources and transitioned to ICIS-Air. Government Publication Date: Oct 17, 2014

#### Registered Pesticide Establishments:

This national list of active EPA-registered foreign and domestic pesticide and/or device-producing establishments is based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that each producing establishment must place its EPA establishment number on the label or immediate container of each pesticide, active ingredient or device produced. An EPA establishment number on a pesticide product label identifies the EPA registered location where the product was produced. The list of establishments is made available by the U.S. Environmental Protection Agency (EPA). Government Publication Date: Feb 29, 2024

#### Polychlorinated Biphenyl (PCB) Transformers:

Locations of Transformers Containing Polychlorinated Biphenyls (PCBs) registered with the United States Environmental Protection Agency. PCB transformer owners must register their transformer(s) with EPA. Although not required, PCB transformer owners who have removed and properly disposed of a registered PCB transformer may notify EPA to have their PCB transformer de-registered. Data made available by EPA. Government Publication Date: Oct 15, 2019

#### Polychlorinated Biphenyl (PCB) Notifiers:

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: May 23, 2024

### State

### CONSENT DECREES

ALT FUELS

#### SSTS

AFS

### PCBT

### PCB

34

A list of applicable cleanup sites from the State Water Resources Control Board's (SWRCB) GeoTracker data management system where one or more of the potential contaminants of concern are identified in the PFAS Master List of PFAS Substances made available by the Environmental Protection Agency (US EPA).

Government Publication Date: Mar 15, 2024

#### **PFOA/PFOS Groundwater:**

A list of water wells from the Groundwater Ambient Monitoring and Assessment Program (GAMA) Groundwater Information System with the groundwater chemical perfluorooctanoic acid (PFOA) (NL = 0.014 UG/L) or perfluorooctanoic sulfonate (PFOS) (NL = 0.013 UG/L). The GAMA Groundwater Information System search is made available by California Water Boards. Government Publication Date: Jan 7, 2024

#### **PFAS Investigations:**

This list of potential Per- and Polyfluoroalkyl Substance (PFAS) sites is compiled from the California State Water Resources Control Board's (SWRCB) PFAS Investigations Map tool. The SWRCB issued investigative orders, per California Water Code (CWC) Section 13267 and/or 13383, to these sites. Orders were also issued to the public water systems to sample wells in the vicinity of these locations. Military facilities have been identified by the Department of Defense (DOD) as part of their efforts to investigate PFAS per the Defense Environmental Restoration Program (DERP) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The data includes locations for Airports, Chrome Plating Facilities, Landfills, Publicly Owned Treatment Works, Refineries and Bulk Terminals, DOD Facilities, and Monitored Drinking Water Wells being investigated for potential PFAS.

Government Publication Date: Jan 23, 2024

#### Hazardous Waste and Substances Site List - Site Cleanup:

The Hazardous Waste and Substances Sites (Cortese) List is a planning document used by the State, local agencies and developers to comply with the California Environmental Quality Act requirements in providing information about the location of hazardous materials release sites. This list is published by California Department of Toxic Substance Control.

Government Publication Date: Mar 15, 2023

#### Toxic Pit Cleanup Act Sites:

The Toxic Pits Cleanup Act (TPCA) list identifies sites suspected of containing hazardous substances where cleanup has not yet been completed. This list was maintained by the State Water Resources Control Board (SWRCB), is not longer maintained, and updates are not planned. Government Publication Date: Jul 1, 1995

#### **PFAS Sampling Locations:**

This data is sourced from the State Water Board's GeoTracker Per- and Polyfluoroalkyl Substances (PFAS) Map tool which contains individual sampling points (i.e., soil boring, groundwater monitoring well, drinking water well for municipal drinking water systems, etc.) or a site location with PFAS analytical data. Includes analytical results that are finalized and submitted electronically by the Responsible Parties via GeoTracker's Electronic Submitted of Information Portal, and after it's accepted by a Regional Water Quality Control Board.

Government Publication Date: Jan 2, 2024

#### Dry Cleaning Facilities: DRYCLEANERS A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial, linen supply, commercial laundry, dry cleaning and pressing machines - Coin Operated Laundry and Dry Cleaning. This is provided by the Department of Toxic Substance Control.

Government Publication Date: Dec 20, 2021

#### **Delisted Drycleaners:**

Sites removed from the list of drycleaner related facilities that have EPA ID numbers, made available by the California Department of Toxic Substance Control.

Government Publication Date: Jan 31, 2022

#### Non-Toxic Dry Cleaning Incentive Program:

A list of grant recipients of the Non-Toxic Dry Cleaning Incentive Program made available by the California Air Resources Board (CARB). The program provides grants to eligible dry cleaning businesses to assist them in transitioning away from PERC machines to alternative non-toxic and non-smog forming technologies.

Government Publication Date: Jan 31, 2022

#### PFAS GeoTracker Cleanup Sites:

#### PFAS INVEST

PFAS GW

#### HWSS CLEANUP

#### TOXIC PITS

#### PFAS SAMPLING

# DELISTED DRYCLEANERS

DRYC GRANT

PFAS GT CLEANUPS

#### Order No: 24060501801

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# This is a list of hazardous waste facilities identified in Health and Safety Code (HSC) § 25187.5. These facilities are those where Department of Toxic Substances Control (DTSC) has taken or contracted for corrective action because a facility owner/operator has failed to comply with a date for taking corrective action in an order issued under HSC § 25187, or because DTSC determined that immediate corrective action was necessary to abate an imminent or substantial endangerment.

Government Publication Date: Jul 18, 2016

#### EnviroStor Inspection, Compliance, and Enforcement:

# A list of permitted facilities with inspections and enforcements tracked by the California Department of Toxic Substance Control's (DTSC) EnviroStor data management system.

Government Publication Date: Nov 23, 2023

#### School Property Evaluation Program Sites:

A list of sites registered with The Department of Toxic Substances Control (DTSC) School Property Evaluation and Cleanup (SPEC) Division. SPEC is responsible for assessing, investigating and cleaning up proposed school sites. The Division ensures that selected properties are free of contamination or, if the properties were previously contaminated, that they have been cleaned up to a level that protects the students and staff who will occupy the new school.

Government Publication Date: Feb 15, 2024

### California Hazardous Material Incident Report System (CHMIRS):

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS). This list has been made available by the California Office of Emergency Services (OES). *Government Publication Date: Oct 16, 2023* 

#### Historical California Hazardous Material Incident Report System (CHMIRS):

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS) prior to 1993. This list has been made available by the California Office of Emergency Services (OES). *Government Publication Date: Jan 1, 1993* 

#### Handlers from Hazardous Waste Manifest Data:

A list of handlers not otherwise classified as Treatment, Storage, Disposal facilities (TSDF) or generators from the facilities and manifests data made available by the California Department of Toxic Substances Control (DTSC) in their Hazardous Waste Tracking System (HWTS). *Government Publication Date: Oct 24, 2016* 

### Generators from Hazardous Waste Manifest Data:

List of handlers listed as having generated waste from the facilities and manifests data made available by the California Department of Toxic Substances Control (DTSC) in their Hazardous Waste Tracking System (HWTS). *Government Publication Date: Dec 31, 2017* 

#### TSDF from Hazardous Waste Manifest Data:

List of Treatment, Storage, and Disposal Facilities (TSDFs) from the facilities and manifests data made available by the California Department of Toxic Substances Control (DTSC) in their Hazardous Waste Tracking System (HWTS). *Government Publication Date: Dec 31, 2017* 

#### Historical Hazardous Waste Manifest Data:

A list of historic hazardous waste manifests received by the Department of Toxic Substances Control (DTSC) from year the 1980 to 1992. The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments. *Government Publication Date: Dec 31, 1992* 

#### DTSC Registered Hazardous Waste Transporters:

The California Department of Toxic Substances Control (DTSC) maintains this list of Registered Hazardous Waste Transporters. Government Publication Date: Apr 15, 2024

#### Registered Waste Tire Haulers:

36

This list of registered waste tire haulers is maintained by the California Department of Resources Recycling and Recovery. *Government Publication Date: Mar 25, 2024* 

HIST CHMIRS

#### HAZNET

# HAZ GEN

### HAZ TSD

### HIST MANIFEST

### HW TRANSPORT

### WASTE TIRE

#### DTSC HWF

#### **INSP COMP ENF**

#### CHMIRS

SCH

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#### California Medical Waste Management Program Facility List:

This list of Medical Waste Management Program Facilities is maintained by the California Department of Public Health. The Medical Waste Management Program (MWMP) regulates the generation, handling, storage, treatment, and disposal of medical waste by providing oversight for the implementation of the Medical Waste Management Act (MWMA). The MWMP permits and inspects all medical waste off-site treatment facilities, medical waste transporters, and medical waste transfer stations. This list contains transporters, treatment, and transfer facilities. Government Publication Date: Apr 15, 2024

#### Historical Cortese List:

List of sites which were once included on the Cortese list. The Hazardous Waste and Substances Sites (Cortese) List is a planning document used by the State, local agencies and developers to comply with the California Environmental Quality Act requirements for providing information about the location of hazardous sites.

Government Publication Date: Nov 13, 2008

#### Cease and Desist Orders and Cleanup and Abatement Orders:

The California Environment Protection Agency "Cortese List" of active Cease and Desist Orders (CDO) and Cleanup and Abatement Orders (CAO). This list contains many CDOs and CAOs that do NOT concern the discharge of wastes that are hazardous materials. Many of the listed orders concern, as examples, discharges of domestic sewage, food processing wastes, or sediment that do not contain hazardous materials, but the Water Boards' database does not distinguish between these types of orders.

Government Publication Date: Dec 6, 2021

#### California Environmental Reporting System (CERS) Hazardous Waste Sites:

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the following regulatory programs: Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, RCRA LQ HW Generator. The CalEPA oversees the statewide implementation of the Unified Program which applies regulatory standards to protect Californians from hazardous waste and materials.

Government Publication Date: Jan 17, 2024

#### Delisted Environmental Reporting System (CERS) Hazardous Waste Sites:

This database contains a list of sites that were removed from the California Environmental Protection Agency (CalEPA) in the following regulatory programs: Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, RCRA LQ HW Generator.

Government Publication Date: Nov 29, 2018

#### Sites in GeoTracker:

GeoTracker is the State Water Resource Control Boards' data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater. This is a list of sites in GeoTracker that aren't otherwise categorized as LUST, Land Disposal Sites (LDS), Cleanup Sites, or sites having Waste Discharge Requirements (WDR). This listing includes program types such as Underground Injection Control (UIC), Confined Animal Facilities (CAF), Irrigated Lands Regulatory Program, plans, and non-case information.

Government Publication Date: Mar 15, 2024

#### Mines Listing:

37

This list includes mine site locations extracted from the Mines Online database, maintained by the California Department of Conservation. Mines Online (MOL) is an interactive web map designed with GIS features that provide information such as the mine name, mine status, commodity sold, location, and other mine specific data. Please note: Mine location information is provided to assist experts in determining the location of mine operators in accordance with California Civil Code section 1103.4 and reflects information reported by mine operators in annual reports provided under Public Resources Code section 2207. While the Division of Mine Reclamation (DMR) attempts to populate MOL with accurate location information, the DMR cannot guarantee the accuracy of operator reported location information.

Government Publication Date: Jun 16, 2023

#### Recorded Environmental Cleanup Liens:

The California Department of Toxic Substance Control (DTSC) maintains this list of liens placed upon real properties. A lien is utilized by the DTSC to obtain reimbursement from responsible parties for costs associated with the remediation of contaminated properties. Government Publication Date: Dec 18, 2023

#### Waste Discharge Requirements:

List of sites in California State Water Resources Control Board (SWRCB) Waste Discharge Requirements (WDRs) Program in California, made available by the SWRCB via GeoTracker. The WDR program regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

# **DELISTED HAZ**

### GEOTRACKER

#### MINF

**LIEN** 

### WASTE DISCHG

#### MEDICAL WASTE

HIST CORTESE

**CERS HAZ** 

CDO/CAO

#### Toxic Pollutant Emissions Facilities:

#### **EMISSIONS**

A list of criteria and toxic pollutant emissions data for facilities in California made available by the California Environmental Protection Agency - Air Resources Board (ARB). Risk data may be based on previous inventory submittals. The toxics data are submitted to the ARB by the local air districts as requirement of the Air Toxics "Hot Spots" Program. *Government Publication Date: Dec 31, 2021* 

Government Fublication Date. Dec 31, 20

#### Clandestine Drug Lab Sites:

CDL

The Department of Toxic Substances Control (DTSC) maintains a listing of drug lab sites. DTSC is responsible for removal and disposal of hazardous substances discovered by law enforcement officials while investigating illegal/clandestine drug laboratories. *Government Publication Date: Jan 19, 2021* 

#### <u>Tribal</u>

No Tribal additional environmental record sources available for this State. <u>County</u>

# Definitions

**Database Descriptions:** This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

**Detail Report**. This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

**Distance:** The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

*Elevation:* The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

**Executive Summary:** This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

**Map Key:** The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

<u>Unplottables</u>: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

APPENDIX F LANDOWNER QUESTIONNAIRE



### **Owner Environmental Questionnaire**

Site Name:

Site Address/	Location:	Kinkenney nd	vacawille Ca	
Owner:	Gurmani	SINCH	Phone No.:	

1) To the best of your knowledge, has the site or any adjoining properties ever been used for an industrial purpose or manufacturing? □ Yes ≠ No

If yes, please identify and explain:

2) To the best of your knowledge, has the site or any adjoining properties ever been used as a gasoline service station, automotive repair facility, commercial printing facility, dry cleaner, junkyard, landfill, or as a waste treatment, storage, disposal, processing or recycling facility? □ Yes d No

If yes, please identify and explain:

3) To the best of your knowledge, has there ever been any storage, use, generation or disposal of automotive, industrial or agricultural chemicals, batteries, solvents, petroleum products, pesticides or related regulated chemicals?  $\Box$  Yes  $\Box$  No

If yes, please identify and explain:

4) To the best of your knowledge, has the site maintained drums, containers (greater than 5 gallons), or registered/unregistered underground/aboveground storage tanks for chemical, petroleum or other regulated substance storage? □ Yes Ø No

If yes, please identify and explain:

5) To the best of your knowledge, has fill soil been imported to the site?  $\Box$  Yes  $\square$  No

If yes, please identify and explain the source of the material

6) To the best of your knowledge, are there any pits, ponds or lagoons located on the site currently or formerly, which have been infilled? □ Yes ☞ No

If yes, please identify and explain:

7) To the best of your knowledge, are you aware of any septic tanks systems, oil-water separators, floor drains, in-ground hydraulic lifts or sumps on the site? □ Yes ∠□ No

If yes, please identify and explain:

8) To the best of your knowledge, does the site utilize water wells for irrigation, potable and/or industrial use purposes? □ Yes □ No

If yes, please identify and explain:

9) Does the site contain any electrical transformers, capacitors or hydraulic equipment that may contain polychlorinated biphenyls (PCBs)?  $\Box$  Yes  $\Box$  No

If yes, please identify and explain:



10) Are you aware of any petroleum or hazardous waste discharges or releases to the environment, or contamination impacts to the site soil, groundwater or surface waters?  $\Box$  Yes  $\Box$  No

If yes, please identify and explain:

Are you aware of any pending, threatened or past environmental litigation, proceedings or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the site?  $\Box$  Yes  $\Box$  No

If yes, please identify and explain:

11) Are you aware of any past environmental assessment report(s) prepared for the site? If yes, are you able to provide a copy of the prior ESA(s)?  $\Box$  Yes  $\neg \Box$  No

I certify to the best of my knowledge that the above statements and facts are true and correct. To the best of my knowledge, no provided material facts have been suppressed or misstated.

Completed By:	Harminder Siver
Signature:	Maniale Dung
Title:	Uunor
Company:	and the second
Relationship to the site:	
Date:	5-7-24

Please return a copy of the completed Owner Environmental Questionnaire form to NextEra Energy Resources Environmental Services via email to: <u>peter.laforge@nexteraenergy.com</u>

# APPENDIX F CREDENTIALS



# Peter LaForge

# Senior Environmental Specialist

# **Environmental Services**

### **EXPERIENCE SUMMARY:**

Peter LaForge serves as a Senior Environmental Specialist for NextEra Energy and performs environmental due diligence including but not limited to properties intended for sustainable energy development and transmission development throughout the United States and Canada. His over twenty years of professional experience in developing, coordinating, and supervising multi-faceted short- and long-term projects for a variety of commercial, industrial, legal, military and government clients has prepared Mr. LaForge for the services required of the Senior Environmental Specialist position at NextEra Energy Resource, Environmental Services. More specifically, he has completed performed a wide range of commercial/industrial/residential property audits (i.e., Transaction Screen, Phase I ESA, and Phase II ESA) at a number of locations throughout the United States. His expertise includes soil, sediment, groundwater and surface water quality evaluation services, site assessments, tank closure assessments, development of remedial action plans, monitoring plans, remedial action plan implementation and related environmental services.

### **EDUCATION:**

Eastern Connecticut State University, Major: Environmental Earth Science (BS), 1990

# **CERTIFICATIONS/ REGISTRATIONS:**

Federal Aviation Administration (FAA) Small Unmanned Aircraft System (SUAS) Pilot Certificate (November 2017)

United States of America Government Transportation Worker Identification Credential - TWIC (expires October 2018)

# TRAINING:

40-hour Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response Standard (HAZWOPER) Training, 1994

# **TRAINING** (continued):

8-hour OSHA HAZWOPER Refresher Training (updated annually, current)



# WORK EXPERIENCE:

NextEra Energy Resources, Senior Environmental Specialist, Juno Beach, Florida (October 2017 - Present)

- Perform environmental due diligence including but not limited to properties intended for sustainable energy development and transmission development throughout the United States and Canada;
- Prepare and reviewed technical reports including Site Assessment Reports, Remedial Action Plans, Operation & Maintenance Reports, and Phase I/II ESAs.
- Responsible for developing the technical approach for site assessment and remediation projects, preparing detailed cost estimates.
- Additional responsibilities include coordinating field activities and supervising subcontractors and vendors.

Tierra Consulting Group, Inc., Project Manager, Ft. Lauderdale, Florida (November 2008 - October 2017)

- Directed environmental site assessment and remediation projects for Florida Power & Light Co.
- Prepared and reviewed technical reports including Site Assessment Reports, Remedial Action Plans, Operation & Maintenance Reports, and Phase I/II ESAs for private clients throughout Florida.
- Responsible for developing the technical approach for site assessment and remediation projects, preparing detailed cost estimates, and ensuring that projects are completed within budget.
- Additional responsibilities include coordinating field activities, supervising and training staff, and reviewing technical reports.

Handex Consulting & Remediation, Project Manager, Delray Beach, Florida (October 2007 - October 2008

- Managed the Florida's Turnpike Hazardous Materials Response Contract, Florida Department of Environmental Protection Pre-Approval projects, and assessment/remediation projects.
- Prepared a guidance document to address emergency response activities, assessment activities, and remediation activities performed under the Florida's Turnpike Hazardous Materials Response Contract.
- Presented a presentation to Florida's Turnpike Enterprise staff outlining services provided under the Florida's Turnpike Hazardous Materials Response Contract.
- Integrated the use of GPS and GIS to provide the client with a spatial database to track the location of discharges along the Florida's Turnpike System.

Metcalf & Eddy/AECOM, Environmental professional, Sunrise, FL (November 2001 – October 2007)

- Supervised assessment/remediation projects under the FDEP Drycleaning Solvent Cleanup Program, FDEP Site Investigation Section, FDEP State-Owned Lands Program, and FDEP Imminent Threat Site contracts.
- Conducted enhanced bioremediation of dissolved-phase chlorinated solvent contaminant plumes at FDEP Drycleaning Solvent Cleanup Program sites.
- Managed remediation of chlorinated solvent impacted soils via source removal and soil vapor extraction.
- Performed rapid assessment of chlorinated solvent and petroleum contaminated sites using direct push technology in conjunction with an on-site mobile laboratory, and subsequent installation of monitoring wells utilizing hollow stem auger, mud-rotary, and sonic drilling techniques.
- Monitored the assessment of arsenic contamination at cattle dip vat sites in Florida state parks



### Metcalf & Eddy, Project Scientist, Sunrise, FL March 1994 to November 2001

- Conducted groundwater and soil sampling in accordance with FDEP SOPs. Attended an FDEP Sampling Seminar in March 2001 and subsequently trained staff members in quiescent groundwater sampling techniques and low-level volatile organic compound soil sampling techniques.
- Proposed and implemented the use of GPS to determine sample locations and integrated GPS data with Digital Orthophoto Quadrangles and/or existing CAD figures to develop scaled site plans in ArcView GIS.
- Supervised several major construction projects at Miami International Airport. Responsibilities included characterizing potentially contaminated media, documenting contractor compliance with Miami-Dade County environmental regulations, and providing the client with compliance reports.
- Provided oversight of geophysical surveys using ground penetrating radar to identify the location of buried drums and underground storage tanks.
- Performed aquifer testing activities, including pump and slug tests.

# **RELEVANT PROJECT EXPERIENCE:**

#### Phase I and Phase II ESA Solar Site - St. Lucie County, Florida

Mr. LaForge was the environmental professional responsible for performing Phase I and Phase II ESAs at the 572-acre property. The site was active cattle ranch and had be utilized on since at least the 1930s. Recognized Environmental Conditions (RECs) identified in connection a Cattle Dipping Vat (CDV), unregulated solid waste disposal area, and underground storage tanks (USTs). The Phase II scope of work included sampling of soil and groundwater for metals, pesticides, herbicides and petroleum compounds. Arsenic was detected at concentrations exceeding regulatory levels in groundwater and soil in the vicinity of the CDV. The portion of the parcel with the CDV was excluded from the property transaction.

#### Phase I ESA and Phase I ESA Update Solar Project - Two Creeks, Manitowoc County, Wisconsin

Mr. LaForge, was the environmental professional responsible for performing the Phase I ESAs at the site. The site encompassed more than 2,000-acres and included multiple agricultural parcels (dairy farms, pastures and row crop fields). RECs were identified in connection with a petroleum discharges and a former landfill. All or portions of parcels with RECs were excluded from the property transaction and additional parcels were added to the project area necessitating the need to update the ESA.

#### Phase I ESA Wind Energy Project- Caddo County, Oklahoma

Mr. LaForge, was the environmental professional, responsible for performing Phase I at the site. The project area encompasses approximately 68,600-acres of land and includes all or portions of 112 Public Land Survey System (PLSS) Sections in Townships 11 and 12 North and Ranges 11, 12 and 13 West in northern Caddo County, Oklahoma. Most of the land is utilized for livestock grazing, cultivation of row crops, or is undeveloped. Much of the site exists within oil-gas fields. A total 167 oil-gas production wells, storage tank batteries and underground pipelines were present throughout the site. Significant discharges were not observed; however, *de minimis* ground surface oil staining was observed around many of the wellheads and tank batteries. Farmsteads were observed to store fertilizers, agri-chemicals, fuel (gasoline and diesel) and lubricants (motor, hydraulic oil) in aboveground storage tank systems, drums or containers in connection with routine farming operations. Discharges from aboveground storage tank systems, if any, would be confined to the location of the farmsteads such as maintenance and storage areas. At least seven solid waste/debris disposal areas and several automotive salvage yards were identified with the project limits.



At least seven solid waste/debris disposal areas and several automotive salvage yards were identified with the project limits. No evidence of disposal of hazardous materials such as chemical containers, drums or storage tanks were observed in the surficial portions of the waste/debris piles. RECs were not identified in association with the current site operations and observations. Observed features such as oil-gas facilities, waste/debris disposal areas do not appear to conflict wind turbine array micro siting.

#### Phase I ESA Distributed Generation Solar Project - Boulder, Boulder County, Colorado

Mr. LaForge, was the environmental professional, responsible for performing Phase I at the site. Project area was comprised of approximately 110-acres of an undeveloped portion of a parent parcel zoned for industrial use. No RECs were identified in connection with site observations or operations; however, an HREC was identified in connection with the parent parcel.

# Phase I ESA North Reading Battery Storage Project - North Reading, Middlesex County, Massachusetts

Mr. LaForge, was the environmental professional, responsible for performing Phase I at the site. The project area was comprised of 0.33-acre portion of a 20-acre parent parcel. An electrical substation and transformer/capacitor laydown area adjoin the site to north and east. Review of available environmental records identified no documented discharges associated with the site or adjoining parcels and no obvious signs of discharges on were observed on the site, substation, in the transformer/capacitor laydown area. No RECs or *de minimus* conditions were identified at the site.

### Phase I and Phase II ESA Solar Project- Unincorporated Palm Beach County, Florida

Mr. LaForge, was the environmental professional, responsible for performing the ESAs. The site was 545acre sod farm comprised of multiple parcels. The Phase I ESA identified eight RECs related to surficial petroleum discharges, the application of potentially unsuitable biosolids (municipal sudge) and uncontrolled waste disposal activities. The Phase ESA II scope of work was comprised of sampling of soil and groundwater from within areas of concern. Analysis for constituents of concern included metals, fecal coliform, nitrates, phosphates, metals and petroleum compounds. Based on the sampling results and cleanup costs required for site development, the site was not purchased or leased.

#### Phase I and Phase II ESA Solar Project - Martin County, Florida

Mr. LaForge was the environmental professional responsible for performing the Phase I and Phase II ESAs for the site. The site was comprised of 797-acres of citrus grove and livestock pastures. Site reconnaissance revealed ongoing discharges of small quantities of petroleum to on-site surface water bodies during operations of the irrigation pumps. Surface water and sediment samples were collected and analyzed for petroleum constituents. The analytical results indicated that concentrations of constituents of concern were below applicable regulatory levels. However, corrective actions were recommended to eliminate the sources of the discharges.

# Phase I ESA Solar Project – Distributed Generation Solar Project – Corcoran, Kings County, California

Mr. LaForge was the environmental professional responsible for performing the Phase I. The site was comprised of 44.780-acres of undeveloped land. Improvements included Improvements on the site include a chain link fence perimeter fence, unpaved access roads, canal and electrical pump. oil stained surficial soil and



concrete were observed on and around the base of the on-site electrical irrigation pump. Most of the oil is contained on the pump's concrete base and stained surficial soils are considered a *de minimis* condition.

#### Phase I ESA Wind Energy Project - De Baca and Quay Counties, New Mexico

Mr. LaForge was the Environmental professional responsible for conducting Phase I. The site was an approximately 11,200-acre tract of agricultural land located on Taiban Mesa and approximately 4-miles west of the village of House, in De Baca and Quay Counties, New Mexico. The abandoned Fort Sumner Auxiliary Army Airfield #5/Taiban Field exists along the southwestern portion of the site. The airfield was repurposed for civilian use after 1945 and abandoned between 1968. Several aboveground storage tanks (AST) and 30 to 40 drums were observed at one of the farmsteads within the project area. The ASTs and drums are not within containment structures or located on impervious surfaces. The ASTs appear to be empty and no staining was present in their immediate vicinity. However, many of the drums contain petroleum products and impacted soil is present in the immediate vicinity of several drums located adjacent to a cluster of four storage/maintenance structures. Based on the limited extent of the impacts and setbacks for wind turbine placement of at least 1,000 feet from existing buildings, the discharges are considered *de minimis* and would not impact development.

# Plant Port Everglades/Port Everglades Clean Energy Center Site Assessment and Remediation Project – Port Everglades, Broward County, Florida

As part of the facility's repowering project, Mr. LaForge served as an out-side consultant supporting the client's in-house environmental team. The objective of the assessment was to obtain regulatory closure of bulk fuel storage tanks and addressed environmental impacts associated with the historic fossil fuel power generating operations. Contaminants of concern included petroleum products (Heavy Fuel Oil/No. 6 oil and Diesel/No. 2 oil), polychlorinated biphenyls (PCBs) and metals associated with fuel oil ash (primarily antimony, arsenic, nickel and vanadium). Prior to and during demolition of the site, more than 1,000 soil samples were collected and approximately 30 monitoring wells were installed and sampled in seven areas of concern. Remediation activities included the excavation and off-site disposal of impacted soil, removal and disposal of free product and petroleum contact water and placement/compaction of "clean" fill. Subsequent to repowering of the facility, a Post Active Remediation Monitoring (PARM) Plan was submitted for regulatory approval.

# Cutler Power Plant Site Assessment and Remediation Project – Palmetto Bay, Miami-Dade County, Florida

As part of the decommissioning project, Mr. LaForge served as an out-side consultant supporting the client's in-house environmental team. The objective of the assessment was to obtain regulatory closure of bulk fuel storage tanks and addressed environmental impacts associated with the historic fossil fuel power generating operations. Contaminants of concern included petroleum products (Heavy Fuel Oil/No. 6 oil and Diesel/No. 2 oil), PCBs and metals associated with fuel oil ash (primarily antimony, arsenic, nickel and vanadium). The site assessment included the collection of more than 1,200 soil samples and the installation/sampling of approximately 30 monitoring wells. Based on the results of the assessment, petroleum impacted soil was addressed through excavation and off-site disposal. Residual metals impacts were addressed with "cap and cover" remedial strategy and groundwater monitoring.



## Riviera Beach Power Plant/ Riviera Beach Clean Energy Center Site Assessment and Remediation Project – Riviera Beach, Palm Beach County, Florida

As part of the facility's repowering project, Mr. LaForge served as an out-side consultant supporting the client's in-house environmental team. The objective of the assessment was to obtain regulatory closure of bulk fuel storage tanks and addressed environmental impacts associated with the historic fossil fuel power generating operations. Contaminants of concern included petroleum products (Heavy Fuel Oil/No. 6 oil and Diesel/No. 2 oil), polychlorinated biphenyls (PCBs) and metals associated with fuel oil ash (primarily antimony, arsenic, nickel and vanadium). Prior to and during demolition of the site, more than 1,000 soil samples were collected and approximately 30 monitoring wells were installed and sampled in seven areas of concern. Remediation activities included the excavation and off-site disposal of impacted soil, removal and disposal of free product and petroleum contact water and placement/compaction of "clean" fill. Subsequent to repowering of the facility, a PARM was implemented at the site.

## Drycleaning Solvent Cleanup Program (DCSP) Site Assessment and Remediation Project – Broward, Martin, Miami-Dade and Palm Beach Counties, Florida

As a project manager with Metcalf & Eddy/AECOM, Mr. LaForge was responsible developing and implementing strategies to address chlorinated solvent impacts at more than a dozen active or former drycleaning facilities enrolled in the Florida Department of Environmental Protection (FDEP) DCSP. The primary contaminant of concern was volatile organic halocarbons (VOHs); however, contaminants at several of the facilities also included petroleum constituents. Prior to conducting an assessment a site specific project work plan was developed and approved by FDEP. Site Assessments were expedited by utilizing a direct push rigs, sonic drilling rigs and on-site mobile laboratories. Based on the results of the site assessment, a strategy for active remediation was developed, natural attenuation monitoring was implemented or No Further Action was required. Active remediation typically employed to address soil impacts included soil excavation and vapor extraction. Bioremediation was used to address most groundwater impacts; however, groundwater extraction was often employed to provide a hydraulic barrier to prevent off-site migration.

#### Mapp Road Assessment and Monitoring Project – Palm City, Martin County, Florida

As a project geologist and later a project manager at Metcalf & Eddy/AECOM, Mr. LaForge was an integral member of a team from Metcalf & Eddy/AECOM and FDEP that performed assessment activities to identify sources and delineate the horizontal/vertical extents of a petroleum plume that had impacted private potable wells in the vicinity of Mapp Road in Palm City. The Direct push rigs, sonic drilling rigs and on-site mobile laboratories were utilized to assess the extent of the impact. More than 50 private potables wells were found to be impacted and three primary sources were identified. The leading edge of the plume extended more than quarter mile from nearest source area and vertical delineation was achieved at a depth of approximately 90 feet below land surface (bls) which roughly corresponded with the depth of deepest private potable wells in area. While contractors for the responsible parties performed cleanups at primary sources, Mr. LaForge managed and performed monitoring of their remediation on the off-site portions of the plume.



# Andrew Petric, P.G.

# Senior Environmental Specialist

# **Environmental Services**

### **EXPERIENCE SUMMARY:**

Andrew Petric, P.G. serves as a Senior Environmental Specialist for NextEra Energy and performs environmental due diligence including but not limited to properties intended for sustainable energy development and transmission development throughout the United States and Canada. His 19+ years of experience in the planning of environmental studies, including scope and fee; performance of field sampling and reconnaissance activities; evaluation of environmental data with respect to prescribed regulatory standards, risk assessment, and project cost impacts; development of remediation/clean-up plans; and preparation of written reports has prepared Mr. Petric for the services required of the Senior Environmental Specialist position at NextEra Energy Resource, Environmental Services. Mr. Petric has completed hundreds of Phase I Environmental Site Assessments (ESAs), as well as numerous Phase II ESAs. His expertise also includes soil, sediment, groundwater and surface water quality evaluation services, site assessments, tank closure assessments, preparation of remedial action plans, monitoring plans, remedial action plan implementation and related environmental services.

### **EDUCATION:**

University of South Florida, Major: Environmental Geography (BA), Minor: Geology (1999)

Florida Atlantic University, supplemental Geology courses (2005-2011)

# **CERTIFICATIONS/ REGISTRATIONS:**

State of Florida Professional Geologist, Registration No PG2788 (obtained May 2013)

Federal Aviation Administration (FAA) Small Unmanned Aircraft System (SUAS) Pilot Certificate (August 2017)

AHERA Building Inspector, 1999 and 2016

AHERA Building Inspector refresher (updated annually in 2000, 2001, and 2017)

United States of America Government Transportation Worker Identification Credential - TWIC (expires October 2021)

# **TRAINING:**

40-hour Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response Standard (HAZWOPER) Training, 1999 and 2014

8-hour OSHA HAZWOPER Refresher Training (updated annually, current)



# TRAINING (continued):

Smith System® Small Vehicle Forward Motion and Backing Combo, March 2017

NSC Defensive Driving Course, October 2014

Florida Department of Environmental Protection (FDEP) Stormwater Erosion and Sedimentation Control Inspector Training, October 2016

CPR with AED and First Aid, December 2017

DOT/HM126F HAZMAT Training, 49 CFR 172, SUBPART H, February 2003

Waste Management Training, 40 CFR 265.16, February 2003

# **WORK EXPERIENCE:**

NextEra Energy Resources, Senior Environmental Specialist, Juno Beach, Florida (July 2017 - Present)

- Desktop environmental reviews and site inspections for NextEra Energy projects to evaluate for environmental liabilities and fatal flaws in connection with lease or acquisition of the property.
- Phase I ESAs in accordance with ASTM E1527-13 and E2247-16 standards
- Review of Phase I ESA reports prepared by consultants for NextEra Energy projects to evaluate technical quality and functionality of ESA reports.
- Served as environmental services representative at five different staging areas for Hurricane Irma restoration in September 2017. Work tasks included processing of leaking transformers, managing remediation contractor field cleanup of transformer oil and oversight of staging area activities to ensure that environmental impacts did not occur.

Terracon Consultants, Inc. (acquired Dunkelberger Engineering & Testing, Inc. in June 2013), Project Manager, West Palm Beach, Florida (May 2003 – July 2017)

- Performance of Phase I ESAs in accordance with ASTM E 1527 standards. Estimated to have conducted over 300 ESAs from May 2003 July 2017.
- Coordination and performance of Phase II ESAs, water quality studies, site assessment reports (in accordance with Chapter 62-780, FAC criteria), soils management plans, tank removal and closure assessment and related regulatory reports.
- Collection of soil, sediment, surface water and groundwater specimens for field testing and/or laboratory analysis for contaminants of concern or secondary water quality parameters in accordance with FDEP Standard Operating Procedures (SOPs).
- Responsible for maintaining and calibrating company's inventory of environmental equipment.
- Performance of asbestos surveys per National Emission Standards for Hazardous Air Pollutants (NESHAP) requirements.
- Interaction with regulatory agencies including FDEP, local (County) environmental agencies and South Florida Water Management District (SFMWD) to discuss projects, regulatory compliance and solutions to address project challenges.



## WORK EXPERIENCE (continued):

- Brownfields Project Manager for Palm Beach County Environmental Protection Agency (EPA) Revolving Loan Fund (RLF) Grant including remediation of two petroleum contaminated sites.
- Performance of hydrogeolocial studies to evaluate impacts of construction dewatering or permitted water use upon wetland drawdown and contaminant plume movement though use of engineering calculations; preparation of SFMWD dewatering permits including calculation of flow rates using computer modeling and other engineering calculations; performance of aquifer performance tests such slug or pump tests and incorporation of the field data into flow equations to determine hydraulic conductivity values; installation and downloading of data loggers in wetlands and uplands to obtain water level, head pressure, temperature and other related parameters.
- Drilling and Geotechnical Experience: Responsible for proposals, scheduling, utility clearances, ordering supplies, monitoring and assisting with drilling operations including monitoring well installations, staff gauges, standard penetration test (SPT) soil borings, auger borings and percolation/ exfiltration tests. Retrieval of soil samples and visual classification using USCS nomenclature.

Tetra Tech FW, Inc., Associate Geoscientist, Stuart, Florida (September 2002 - May 2003)

- Performance of soil and groundwater sampling using FDEP SOPs and oversight of soil boring and monitoring well installations in accordance with the scope of work for over 50 different State-funded or FDEP Petroleum Restoration Program sites.
- Preparation of Template Site Assessment Reports (TSARs), Natural Attenuation Monitoring reports, and other related regulatory reports containing assessment findings and recommendations and assisting project managers with various related tasks.
- Performance of surface water sampling under the Aquifer Storage and Recovery (ASR) program on behalf of the SFWMD.
- Collection of fish and aquatic vegetation specimens from air boats and processing of the collected specimens for trace mercury/ methyl-mercury analysis.

FDEP, Environmental Specialist, West Palm Beach, Florida (April 2003 – May 2003, under contract to FDEP while employed with Tetra Tech FW, Inc.)

• Technical review of environmental reports such as site assessments, landfill monitoring reports, and other related reports and preparation of memoranda to supervisors disclosing inadequacies of the documents.

Universal Engineering Sciences, Inc., Staff Scientist, Riviera Beach/ Lake Worth, Florida (June 1999 – May 2002)

- Performance of Phase I ESAs in accordance with ASTM E 1527 standards. Estimated to have conducted over 50 ESAs at Universal Engineering Sciences, Inc.
- Performance of environmental fieldwork such as sediment, soil, surface water and groundwater sampling, review of laboratory analytical data and preparation of environmental reports containing findings and recommendations.
- Performance of asbestos and lead based paint surveys.
- Assistance with drilling and geotechnical exploration operations.



### WORK EXPERIENCE (continued):

 Construction Materials Evaluation and Testing Management: Performance of field and laboratory test procedures for testing of concrete and soil materials in compliance with project plans and specifications. Schedule and provide proposals for construction materials testing operations.

# **RELEVANT PROJECT EXPERIENCE:**

#### 3,700-acre Former Citrus Grove - Palm Beach County, Florida\*

Mr. Petric was Project Manager responsible for performing Phase I and Phase II ESAs. The Phase II scope of work included sampling of soil, sediments, surface water and groundwater. Analysis for constituents of concern, including metals, pesticides, and petroleum compounds, was conducted in agricultural fields and canals, maintenance areas, fuel storage areas, irrigation pump stations and agrichemical mixing and storage areas.

#### Bid Package No. 11 Utility Improvement Project - Oakland Park, Florida \*

As part of the Bid Package No. 11 utility improvement project, located in the vicinity of NE 43<sup>rd</sup> Street and NE 3<sup>rd</sup> Avenue in Oakland Park, construction dewatering was required for installation of underground utilities, namely storm sewers and exfiltration trenches. As required by Section 27-355(4) of the Broward County Code, any person(s) wishing to conduct dewatering activities at or within a <sup>1</sup>/<sub>4</sub>-mile radius of an existing "contaminated" site must notify and receive approval from the Broward County Environmental Protection and Growth Management Department (EPGMD) prior to implementation of that action. This being the case Mr. Petric prepared a dewatering plan to evaluate potential impacts of construction dewatering upon contaminated sites located within <sup>1</sup>/<sub>4</sub>-mile of the project site in accordance with the Broward County SOPs for Dewatering (Revision 3, Effective December 1, 2009).

#### Crowned Ridge I & II Wind Energy Projects, Northeastern Portion of South Dakota

Mr. Petric performed Phase I ESAs of two large wind energy projects in accordance with ASTM E2247-16 standards. The project study areas for the Crowned Ridge I & II Wind Energy Projects were 72,212 acres and 60,005 acres, respectively. The properties were primarily developed as cropland, cattle pasture and undeveloped land. Several areas of environmental interest were identified such as farm dumps/debris piles, and quarries/borrow pits, and recommendations made to the development team to avoid these areas.

#### Dougherty and Quitman I/II Solar - South Georgia

Mr. Petric performed Phase I ESAs in accordance with ASTM E2247-16 standards for three sites is south Georgia ranging in 1,220 - 1,682 acres in size. The properties were primarily used for agricultural and silvicultural purposes. Due to the remoteness of the properties, a 4-wheel drive vehicle and small unmanned aircraft system (drone) were used for reconnaissance of the properties. RECs were identified in connection with a farm maintenance area within one site which had a former UST, agri-chemical storage mixing areas and maintenance areas.



# **RELEVANT PROJECT EXPERIENCE (continued):**

#### Former Dry Marinas, Inc. - Port Everglades, Florida \*

A voluntary assessment was completed for Dry Marinas, Inc., a State of Florida petroleum pre-approval program facility, to evaluate the status of a past storage tank petroleum discharge. The assessment involved a detailed review of regulatory information, installation of groundwater monitoring wells, sampling and analysis of groundwater samples, groundwater flow direction determination and submittal of an assessment report and monitoring reports in accordance with Chapter 62-780, FAC. At the conclusion of the assessment and monitoring, which showed that no residual contamination existed, the site monitoring wells were abandoned. A Site Rehabilitation Completion Order (SRCO) was subsequently issued by the FDEP.

#### Former Shooting Range, Royal Palm Beach, Florida\*

The site was a former shooting range positioned within the former Village of Royal Palm Beach (Village) wastewater treatment plant property, 150.3-acres located at 900 Crestwood Boulevard. The Village decided to remove portions of the former shooting range backstop which contain lead slugs/shoot and potentially lead impacted soil. Toward that end, the Village developed construction specifications for the removal and disposal of the range backstop soils. The specifications indicated that two feet of soil material would be excavated from the face and base of the range backstop and disposed of at a Class I landfill. An Interim Source Removal and Limited Site Assessment Report was prepared by Mr. Petric to summarize impacted soil excavation and disposal activities and associated limited site assessment efforts conducted at the site.

#### Rochelle Municipal Utilities Transmission Line Acquisition, Ogle and Lee Counties, Illinois

Mr. Petric performed a Phase I ESA of approximately 22 miles of transmission line in accordance with ASTM E1527-13 standards. While most of the transmission line corridor ran through rural farmland areas, the corridor also ran through the city of Rochelle and town of Steward. Several industrial properties within the Rochelle city limits had documented contamination. One facility, a bulk petroleum storage terminal, had a groundwater hydrocarbon plume which migrated underneath the site (i.e. transmission line). This contamination was identified as a REC.

#### Royal Palm Beach Commons, Royal Palm Beach, Florida\*

The project consisted of a 160±-acre parcel of land that was developed into a community park known as Royal Palm Beach Commons (former Traditions Golf Course site). Because the site was a former golf course, Mr. Petric evaluated soil and groundwater quality to determine impacts from use of turf chemicals and found contaminants of concern in both media whose concentrations exceeded State cleanup levels. Mr. Petric worked with the project team to establish strategies for addressing the impacted media and assisted the civil engineer in developing a contaminated soil source removal plan and construction dewatering plan that was approved by the FDEP and South Florida Water Management District (SFWMD). Sampling and analysis was also performed during construction and source removal to assure that the construction contractor followed the project environmental specifications. At the conclusion of construction, Mr. Petric performed a comprehensive post-construction site assessment in accordance with Chapter 62-780, FAC. The site assessment report summarized all environmental assessment and remediation activities.



# **RELEVANT PROJECT EXPERIENCE (continued):**

#### South Bay Service Station Site - South Bay, Florida\*

In early 2015, the South Bay Service Station site was identified as a viable project to secure a grant through the Palm Beach County RLF program for remediation of petroleum-contaminated soil and groundwater associated with use of the site as a former gasoline service station. In mid-2015, Mr. Petric's former employer and its consulting team was contracted by Palm Beach County Department of Economic Sustainability to perform Brownfields RLF cleanup including programmatic tasks and active remediation with the ultimate goal to obtain a conditional site closure through use of engineering and institutional controls. Mr. Petric served as the Project Manager. The programmatic tasks completed included preparation of a SSQAPP, preparation of an ABCA/ Interim Remedial Action Interim Source Removal Plan, Davis-Bacon Act reporting assistance, preparation of Voluntary Cleanup Tax Credit (VCTC) applications and assistance with quarterly EPA reporting. In mid-2016, source removal was implemented including demolition of the former service station building and associated concrete pump island, excavation and thermal incineration of 346.5 tons of petroleum impacted soil, removal and disposal of 5,800-gallons of free product and petroleum contact water and placement/compaction of 604 tons of "clean" fill. Subsequent to source removal, monitoring wells were re-installed and Post Active Remediation Monitoring (PARM) of groundwater implemented.

#### Southport Turning Notch Expansion Project - Port Everglades, Florida\*

Broward County plans to expand the Southport Turning Notch to facilitate improved port operations and navigation. As part of the improvements, 8.7-acres of existing wetland conservation easement will be removed. To offset this loss 16.5 acres of new mangrove wetland will be created in existing upland areas adjacent to and nearby the conservation easement. Mr. Petric completed soil and groundwater assessment activities in the proposed wetland creation area and the expansion area (former 40-acre landfill) to evaluate potential contamination impacts and the implication of the impacts upon the project. Mr. Petric also prepared a generic soils and debris management plan which laid out the means and methods for handling landfill debris which will be encountered during expansion into the landfill area.

#### Tam O' Shanter Golf Course, Deerfield Beach, Florida\*

Mr. Petric completed a Site Assessment of this former golf course in accordance with Chapter 62-780, FAC. Upon approval of the Site Assessment by Broward County EPGMD, a year-long program of groundwater monitoring for arsenic was performed to demonstrate that the groundwater contamination was stable. Upon completion of the monitoring, we assisted the client's attorney in preparation of a declaration of restrictive covenants (DRC) which described engineering and intuitional controls to be implemented in connection with future development of the site as a cemetery and future City park. Mr. Petric also assisted a communications tower compound engineer with soils management during construction of the tower compound within the contaminated former golf course site including preparation and execution of a soils management plan.

\*indicates project was completed at prior company

# APPENDIX 4.9-B: FIRE RESPONSE PROCEDURE TEMPLATE

	NEER SOLAR & STORAGE	PROCEDURE NUMBER 20230622111
<b>NEXTERA</b> ENERGY	Insert SITE NAME BESS FIRE RESPONSE	DATE: 6/22/2023
RESOURCES	OFF NORMAL OPERATION	REV: 3
	STATUS: FINAL	Page 1 of 1

IDENTIFY THE EVENT	FIRE DETECTED AT BESS SITE
VERIFY THE CONDITION	<ul> <li>Visual confirmation of smoke and/or flames (Do not enter building if verified present)</li> <li>Credible report of smoke and/or flames         <ul> <li>Verify remotely in SCADA credibility of the report</li> </ul> </li> <li>External indication of fire suppression system release</li> </ul>
MAKE THE UNIT SAFE	<ul> <li>Notify local fire department or call 911</li> <li>Request the ERCC (888-202-6337) to open the affected feeder breaker(s) to de- energized affected BESS transformers/inverters         <ul> <li>If ERCC cannot open the breaker(s) remotely, then qualified individual (from a safe position) should open the affected breaker(s) locally to de-energize the affected BESS transformers/inverters</li> </ul> </li> </ul>
	<ul> <li>Notify the site manager/leader of the fire if they are not already aware</li> <li>When emergency responders arrive:         <ul> <li>a. The fire department shall assume unified control of the scene and cordon of the area awaiting instructions from operations that equipment has been isolated by opening disconnect switches</li> </ul> </li> </ul>
	<ul> <li>Provide the following information to the fire department:         <ul> <li>Instruct the fire department to consider the equipment energized until you notify them that all circuit disconnect switches are open</li> <li>Inform fire department of hazards i.e., Li-ion batteries remained charged Novec and Pre-action suppression systems, SDS data etc.</li> <li>Notify the fire department if fire suppression system was activated and</li> </ul> </li> </ul>
	discharged (if applicable) d. Advise fire department of NEE's recommendation to NOT open any building doors until either 48 hours following the initiation of the event or if conditions are verified safe and entry is approved by NEE senior Leadership (Vice President).
	Call ERCC and notify them of the requirement for emergency switching of the feeder disconnect switches
	<ul> <li>Verify breakers are open, then open all feeder disconnect switches</li> <li>Notify the fire department that all circuit disconnect switches are open.</li> <li>Notify the ROCC of the event (561-694-3636)</li> <li>Install denger tage (and place red denger tag) around the even disconnect switch erec</li> </ul>
	<ul> <li>Install danger tape (and place red danger tag) around the open disconnect switch area to maintain control until a clearance is in place</li> <li>Site team shall coordinate further course of action with NEE corporate support team</li> <li>Make appropriate notifications; including senior leadership and Marketing &amp; Communications</li> </ul>

# APPENDIX 4.9-C: UL 9540A TEST REPORTS



# CELL TEST REPORT UL 9540A Test Method for Evaluating Thermal Runaway Fire Propagation in Battery Energy Storage Systems (AACD)

Duais of Neuroban	4700030636 3
Project Number	4790838636.3
Date of issue	2023.08.24
Total number of pages:	35
UL Report Office:	UL(Changzhou) Quality Technical Service Co., LTD
Applicant's name:	Contemporary Amperex Technology Co., Limited
Address:	No 2 Xingang Road Zhangwan Town Jiaocheng District NingdeFujian 352100 China
Test specification:	4 <sup>th</sup> Edition, Section 7, November 12, 2019
Standard:	UL 9540A, Test Method for Evaluating Thermal Runaway Fire Propagation in Battery Energy Storage Systems
Test procedure:	7.1, 7.2, 7.3.1, 7.4, 7.6.1, 7.7
Non-standard test method:	N/A

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#### General disclaimer:

The test results presented in this report relate only to the sample tested in the test configuration noted on the list of the attachments.

UL LLC did not select the sample(s), determine whether the sample(s) was representative of production samples, witness the production of the test sample(s), nor were we provided with information relative to the formulation or identification of component materials used in the test sample(s).

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Cell level information		
Model No		CBDD0
Ratings (Vdc, Ah):		3.2V, 306Ah
Chemistry of test item		Lithium Iron Phosphate
Original Equipment Manufacturer (OEI	м):	Contemporary Amperex Technology Co., Limited
Branding Manufacturer (if not OEM):		N/A
Was the cell certified?		Yes
Standard test item certified to		UL 1973
Organization that certified test item	:	MH62898
Average cell surface temperature at ga	as venting, °C:	154
Average surface temperature at therm	al runaway, °C:	241
Gas Volume-:		204L
Lower flammability limit (LFL), % volu temperature	me in air at the ambient	8.595
Lower flammability limit (LFL), % volu temperature	me in air at the venting	7.24
Burning velocity (S <sub>u</sub> ) cm/s:		54.20
Maximum pressure (P <sub>max</sub> ) psig:		102.74
Cell Gas composition		
Gas		Measured %
Carbon Monoxide	CO	14.596
Carbon Dioxide	CO <sub>2</sub>	26,925
Hydrogen	H <sub>2</sub>	43.066
Methane	CH <sub>4</sub>	7.051
Acetylene	C <sub>2</sub> H <sub>2</sub>	0.119
Ethylene	C <sub>2</sub> H <sub>2</sub>	3.289
Ethane	C <sub>2</sub> H <sub>4</sub>	1.060
Propylene	C3H6	0.686
Propane	C3H8	0.260
Fiopalie	C4 (Total)	0.200
	C5 (Total)	0.399
	C6 (Total)	0.148
1 Hentono	C7H14	0.148
1-Heptene		
Styrene	C8H8	0.013
Benzene	C <sub>6</sub> H <sub>6</sub>	0.082
Toluene	C7H8	0.012
	C <sub>3</sub> H <sub>6</sub> O <sub>3</sub>	1.304
Dimethyl Carbonate		0.404
Dimethyl Carbonate Ethyl Methyl Carbonate Total	C <sub>4</sub> H <sub>8</sub> O <sub>3</sub>	0.101

# Cell failure test method performed (summary of method and test clause):

 $\boxtimes$  External heating using thin film with 4°C to 7°C thermal ramp.

Nail Penetration

Overcharge

External short circuit ( $X \Omega$  external resistance)

Flow Battery with 2 active electrolyte methods

Flow Battery with 1 active electrolyte methods

Others

Description of method used to fail cells if other than external thin film heater with thermal ramp, :N/A

Summary of testing:

Performance Criteria in accordance with Clause 7.7 and Figure 1.1:

[] Thermal runaway was not induced in the cell; and

[] The cell vent gas did not present a flammability hazard when mixed with any volume of air, as determined in accordance with ASTM E918 at both ambient and vent temperatures.

Necessity for a module level test

[X] The performance criteria of the cell level test as indicated in 7.7 of UL 9540A 4th edition has not been met, therefore a module level testing in accordance with UL 9540A will need to be conducted on a complete module employing this cell.

[] The performance criteria of the module level tests as indicated in 7.7 of UL 9540A 4th edition has been met, therefore a module level testing in accordance with UL 9540A need not be conducted.

Testing Laboratory information

Testing Laboratory and testing location(s):

Testing Laboratory:	UL(Changzhou) Quality Technical Service Co., LTD			
Testing location/ address::	21 Longmen Rd, National High- Tech Industrial Development District, Wujin, Changzhou, Jiangsu, China			
Tested by (name, signature): :	Huang Fei /Vic Zhang			
Witnessed by (for 3 <sup>rd</sup> Party Lab Test Location) (name, signature)	N/A N/A			
Project Handler (name, signature) :	Arui Zhou	Arui Zhou		
Reviewer (name, signature):	Benjamin Liu	Benjamin bin		
Gas Analysis Testing Laboratory :				
Testing location/ address::	UL SOLUTIONS 333 Pfingsten Rd. Northbrook, II 60062 USA			
Project Handler (name, signature): :	lan A. Erickson			

Page 4 of 35	Project No. 4790838636.3	
Reviewer (name, signature):	Sean. Mitchell	
List of Attachments (including a total number of pages in each attach	nent):	
Attachment A: Cell Conditioning (Charge/discharge) Profiles - (Pages 17 t Attachment B: Cell Instrumentation Photos - (Pages 20 through 20)	hrough <b>19</b> )	
Attachment C: Cell Temperature Profiles during testing - (Pages 21 through 23) Attachment D: Cell Testing Photos - (Pages 24 through 33)		
Attachment E: Cell vent gas test chamber photo and profile of chamber gas analysis (O <sub>2</sub> and Pressure) – (Pages 34 through 34)		
Attachment F: Cell Gas Analysis Report - (Pages 35 through 35)		

Page 5 of 3	35 Project No. 4790838636.
Photo of cell/Stack	
Figure 0-1	Figure 0-2
Figure 0-3	Figure 0-4
<ul> <li>Test Item Charge/Discharge Specifications:</li> <li>Charge current, A:</li> <li>Charge Power, w</li> <li>Standard full charge voltage, Vdc:</li> <li>Charge temperature range, °C:</li> <li>End of charge voltage, V:</li> </ul>	153 489.6 3.65 0~60 3.65
Discharge current, A:	153
<ul><li>Discharge Power, w</li><li>End of discharge voltage, Vdc:</li></ul>	489.6
<ul> <li>Discharge temperature range, °C:</li> </ul>	2.5
	-20~60

Test item particulars:	
Possible test case verdicts:	
- test case does not apply to the test object:	N/A
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
- test object was completed per the requirement:	C(Complete)
- test object was completed with modification:	M(Modification)
Testing:	CBDD0
Date of receipt of test item:	2023-04-28
Date (s) of performance of tests	2023-05-10~2023-05-13
Company romanikas	
General remarks:	
"(See Enclosure #)" refers to additional information appe "(See appended table)" refers to a table appended to the	
Throughout this report a point is used as the decima	al separator.
Manufacturer's Declaration of samples submitted for	test:
The applicant for this report includes samples from more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	<ul> <li>☑ Yes</li> <li>☑ Not applicable</li> </ul>
Name and address of factory (ies) :	Factory_1: Guangdong Ruiqing Contemporary Amperex Technology Limited Factory_1 address: No.1 Shidai Street, High-tech Industrial Development Zone, Zhaoqing City, Guangdong Province Factory_2: Jiangxi Yichun Contemporary Amperex Technology Limited Factory_2 address: No. 1, Chunfeng Road, Yichun Economic and Technological Development Zone, Jiangxi Province Factory_3: Fuding Contemporary Amperex Technology Limited Factory_3 address: No. 1, Shidai Road, Xueqiao village, Qianqi Town, Fuding City, Ningde City, Fujian Province

#### General product information and other remarks:

The tested cell is a Lithium-ion battery cell, Model CBDD0. Each cell has a capacity of 306 Ah and nominal voltage 3.2 Vdc.

The overall dimensions of cell are 71.6±0.8mm(Width) by 174.7±0.8mm(Length) by 207.3±0.8mm(Height).

The weight of cell is 5500g±300g.

The test samples were produced in Factory 1.

The test samples are figure 0-1 and figure 0-2.

The customer has changed the design of the top cover of the cell, figures 0-1 and 0-2 are the original design of the cell, 0-3 and 0-4 are the new designs.

According to customer analysis, the above differences do not affect the test results. The new design is for reference only, and the samples after the design change have not been tested.

UL 9540A, Edition 4,			
Clause	Requirement + Test	Result - Remark	Verdict

5.0	CONSTRUCTION		Verdict
5.1. 5.4	Cell/Stack Construction		—
5.1.1, 5.4.1	Generic Chemistry:	Lithium iron phosphate	—
	Electrolyte Chemistry:	LiPF6 with additives	—
	Flow Battery Electrolyte No. 1 Chemistry:	Not flow battery	—
	Max volume of system electrolyte No. 1, L:	Not flow battery	—
	Flow Battery Electrolyte No. 2 Chemistry:	Not flow battery	—
	Max volume of system electrolyte No. 2, L:	Not flow battery	—
	Separator Melt Temperature, °C:	Not used during test	
	Format: Cylindrical /Prismatic /Pouch Flow Battery Stack	Prismatic	-
	Overall Dimensions, mm	174.7±0.8mm (Length) by 71.6±0.8mm (width) by 207.3±0.8mm (height)	-
	Cell Weight, g	5500±300	—
5.1.2	Cell Certification:	Yes	—
	Standard Used for Cell Certification:	UL 1973	—
	Organization that Certified Cell:	MH62898	_
5.1.1, 5.4.1	Cell/Stack Ratings: • Nominal Voltage, Vdc •Nominal Capacity, Ah	3.2 306	
5.4.1	Flow Battery: No. of Cells per Stack:	Not flow battery	
	Flow battery system manufacturer:	Not flow battery	_
	Flow battery system model:	Not flow battery	_
	Flow battery system ratings, Vdc, Ah:	Not flow battery	—
5.4.2	Flow battery system certified to UL 1973:	Not flow battery	—
	Organization that certified flow battery system:	Not flow battery	—
6.0	PERFORMANCE		Verdict
6.1	General		С
7.2	Samples		С

UL 9540A, Edition 4,			
Clause	Requirement + Test	Result - Remark	Verdict

7.2.1	Samples conditioned through charge discharge cycling a minimum of 2 cycles.	See Attachment A for profiles See Table 1 for specifications	С
7.2.2	100% SOC and stabilize from 1h to 8 h before testing	See also Table 2	
7.2.3	Pouch Cells constrained per end use during testing.		N/A
7.3	Determination of thermal runaway methodology		С
7.3.1	General		С
7.3.1.1	Ambient indoor laboratory conditions: 25 ±5°C (77 ±9°F) ≤50 ±25% RH at the initiation of the test.	See Attachment C See Table 3	С
7.3.1.2	Heat the cell to thermal runaway by externally applied flexible film heaters	See Attachment B	С
	Heater Dimension	Two heaters 152.4mm by 203.2 mm in size for each sample. Each side of the cells was instrumented with the heater	
	A surface heating rate of $4^{\circ}$ C (7.2° F) to 7° C (12.6° F) per minute was applied to the cell.	See Attachment C, D See Table 4	С
	Maximum surface end point temperature, °C	Not used, the cells are heated until the thermal runaway achieved	
		According to the Certification Requirement Decision: Test Method for Evaluating Thermal Runaway Fire Propagation in Battery. Holding temperature was not utilized during the test and the cell was continuously heated until thermal runaway occurred	
	The following method(s) was employed to cause thermal runaway: Mechanical (e.g. nail penetration); Electrical stress in the form of overcharging, Electrical stress in the form of over discharging Electrical stress in the form of external short- circuiting Use of alternate heating sources (e.g. oven). Other (explain)	Only external heating in the form of using flexible thin film heaters to cause thermal runaway	N/A
7.3.1.3	Detail of test method when using another cell abuse method to initiate thermal runaway	See Attachment E	N/A

UL 9540A, Edition 4,				
Clause	Requirement + Test		Result - Remark	Verdict

7.3.1.4	Monobloc batteries such as a lead acid battery		N/A
7.3.1.5	Estimated surface temperature at which internal short circuiting within the cell will occur that could lead to a thermal runaway condition.	Not used, the cells are heated until the thermal runaway achieved	N/A
		According to the Certification Requirement Decision: Test Method for Evaluating Thermal Runaway Fire Propagation in Battery. Holding temperature was not utilized during the test and the cell was continuously heated until thermal runaway occurred	
7.3.1.6	The cell was heated until thermal runaway has occurred.	Refer to Attachment C	С
	Another external heating method was used to cause cell thermal runaway		N/A
7.3.1.7	The cell's exterior surface temperature was measured	asured See Attachment B	
7.3.1.8	The temperature at which the cell case vents due to internal pressure rise was documented.	See Table 4 See Attachment C, D	С
7.3.1.9	The temperature at the onset of thermal runaway was documented.	See Table 4 See Attachment C, D	С
	If cell venting occurs first, the cell was heated continuously until thermal runaway occurs.	See Attachment C	С
7.3.1.10	When using methods other than the heater method, the stresses were applied to the cell until thermal runaway occurs.		N/A
7.3.1.11	3 additional samples were tested using the same method and exhibited thermal runaway	See Table 3, 4 and 5 See Attachment C, D	С
7.4	Cell vent gas composition test		С
7.4.1	Cell vent gas was generated and captured by forcing a cell into thermal runaway with the methodology developed in 7.3, inside a pressure vessel	Size of pressure vessel used: 100L	С
		Refer to Attachment E	
	The test was initiated with an initial condition of atmospheric pressure and less than 1% oxygen by volume.	Refer to Attachment E Atmospheric pressure (psig):0.13	С

	UL 9540A, Edition 4,				
Clause	Requirement + Test		Result - Remark	Verdict	

		Oxygen concentration measured (% volume):0.06	
		Inert gas used: Nitrogen	
7.4.2	Cell vent gas composition was determined using Gas Chromatography (GC)	Refer to Table 8 Refer to Attachment F	С
	Hydrogen gas was measured	Refer to Table 8	С
	The initial atmospheric conditions prior to testing were noted.	Refer to Table 3 Refer to attachment C and F	С
7.4.3	The lower flammability limit of the cell vent gas was determined on samples of the synthetically replicated gas mixture in accordance with ASTM E918, testing at both ambient and cell vent temperatures.	Refer to Table 9 and 10	С
7.4.4	The gas burning velocity of the synthetically replicated cell vent gas was determined in accordance with the Method of Test for Burning Velocity Measurement of Flammable Gases Annex in ISO 817.	Refer to Table 9 and 10	С
7.4.5	P <sub>max</sub> of the synthetically replicated cell vent gas was determined in accordance with EN 15967.	Refer to Table 9 and 10	С
7.6	Cell Level Test Report Information		С
7.6.1	Minimum information provided in the report for items a) through m)		С
7.6.2	Minimum information of items a) through k) was provided in the report for flow battery		N/A
7.7	Performance – cell level test		С
7.7.1	a) Thermal runaway cannot be induced in the cell; and	Thermal runaway can be induced in the cell with external heater during the test	F
	b) The cell vent gas does not present a flammability hazard when mixed with any volume of air, at both ambient and vent temperatures.	As a result of gas analysis, the gas generated from the cell were identified flammable	F

	UL 9540A, Edition 4,				
Clause	Requirement + Test		Result - Remark	Verdict	

Table 1 – Specified conditioning parameters					
Charging:		Discharging			
Power (CP), W	489.6	Power (CP), W	489.6		
Standard full charge voltage, Vdc	3.65	Voltage at start of discharge, Vdc	3.65		
End of charge voltage, Vdc	3.65	End of discharge voltage, Vdc	2.5		
Charging Test Ambient, °C 0~60 Discharging Test Ambient, °C -20~60					
Refer to Attachment A for charge/discharge profiles for each cell.					

Table 2 – Charge completion and cell test initiation times					
Cell Test Number	Charge Completion Date and Time	Cell test Date and Time			
1	2023-05-10 08:24	2023-05-10 11:14			
2	2023-05-10 08:26	2023-05-10 15:28			
3	2023-05-11 10:18	2023-05-11 15:26			
4	2023-05-12 11:41	2023-05-12 14:59			
5	2023-05-13 11:11	2023-05-13 17:49			

Table 3 - Test Initiation Details					
	Cell Test 1	Cell Test 2	Cell Test 3	Cell Test 4	Cell Test 5
Test Date	2023-05-10	2023-05-10	2023-05-11	2023-05-12	2023-05-13
Test Start Time	11:14	15:28	15:26	14:59	17:49
Initial Lab Temperature	21.6°C	21.6°C	21.6°C	21.6°C	23.6°C
Initial Relative Humidity	68.5%RH	68.5%RH	68.5%RH	68.5%RH	68.1%RH

Table 4 - Thermal Runaway Results					
	Cell Test 1	Cell Test 2	Cell Test 3	Cell Test 4	Cell Test 5
OCV at start of test, Vdc	3.384	3.374	3.405	3.400	3.379
Average Heating	4.5	4.5	4.5	4.5	4.5
Rate, °C/min					
Venting Time after the	0:34:55	0:36:44	0:35:46	0:36:00	0:36:24
test start					
(hh:mm:ss)					
Venting	153	153	159	152	166
Temperature, °C					
Thermal Runaway Time	0:55:32	0:57:42	0:56:49	0:56:41	0:56:10
after the test start					
(hh:mm:ss)					
Thermal Runaway	240	243	244	238	247
Temperature, °C					
Refer to Attachment C for	r surface tempe	rature profiles d	uring testing		

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	UL 9540A, Edition 4,				
Clause	Requirement + Test	Result - Remark	Verdict		

Table 5 – Average Vent and Thermal Runaway Temperatures				
Average of Cell Vent Temperatures, °C 154				
Average of Cell Thermal Runaway Temperatures, °C 241				
#Averages of cell tests other than the gas analysis test				

Table 6 – Parameters Flow Battery			
N/A			
Table 7 – Results of Flammability Testing of Flow Battery Electrolyte			
N/A			

Table 8 – Results of Gas Analysis (Excluding O <sub>2</sub> and N <sub>2</sub> )						
Gas Measured % Component LFI						
Carbon Monoxide	CO	14.596	10.9			
Carbon Dioxide	CO <sub>2</sub>	26.925	N/A			
Hydrogen	H <sub>2</sub>	43.066	4.0			
Methane	CH₄	7.051	4.4			
Acetylene	C <sub>2</sub> H <sub>2</sub>	0.119	2.3			
Ethylene	C <sub>2</sub> H <sub>4</sub>	3.289	2.4			
Ethane	C <sub>2</sub> H <sub>6</sub>	1.060	2.4			
Propylene	C <sub>3</sub> H <sub>6</sub>	0.686	1.8			
Propane	C <sub>3</sub> H <sub>8</sub>	0.260	1.7			
-	C4 (Total)	0.865	N/A			
-	C5 (Total)	0.399	N/A			
-	C6 (Total)	0.148	N/A			
1-Heptene	C7H14	0.025	N/A			
Styrene	C8H8	0.013	1.1			
Benzene	C <sub>6</sub> H <sub>6</sub>	0.082	1.2			
Toluene	C7H8	0.012	1.0			
Dimethyl Carbonate	C <sub>3</sub> H <sub>6</sub> O <sub>3</sub>	1.304	N/A			
Ethyl Methyl Carbonate	C <sub>4</sub> H <sub>8</sub> O <sub>3</sub>	0.101	N/A			
Total	-	100	-			

<sup>&</sup>lt;sup>1</sup> Extracted LFL values from ISO 10156-2017

UL 9540A, Edition 4,					
Clause	Requirement + Test		Result - Remark		Verdict

Table 9 – Gas composition excluding the constituents with boiling points higher than 60°C <sup>2</sup>				
	Gas	Measured %	Component LFL	
Carbon Monoxide	Carbon Monoxide CO		10.9	
Carbon Dioxide	CO2	27.386	N/A	
Hydrogen	H2	43.804	4.0	
Methane	CH4	7.172	4.4	
Acetylene	C2H2	0.121	2.3	
Ethylene	C2H4	3.345	2.4	
Ethane	C2H6	1.078	2.4	
Propylene	C3H6	0.697	1.8	
Propane	C3H8	0.264	1.7	
Propadiene	C3H4	0.000	1.9	
-	C4 (Total)	0.880	N/A	
-	C5 (Total)	0.405	N/A	
Total	-	100	-	

<sup>&</sup>lt;sup>2</sup> The constituents with a higher boiling point were excluded for the flammability characteristic analysis as these components will turn into a liquid state at room temperature and will not release from the gas bottle as a homogenous mixture.

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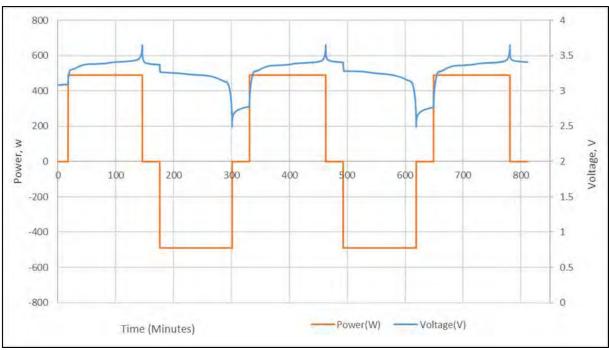
UL 9540A, Edition 4,				
Clause	Requirement + Test	Result - Remark	Verdict	

Table 10 – Properties of Vent Gas Analysis				
Lower Flammability limit at Ambient Temperature, 25°C (% vol in air)	8.595			
Lower Flammability limit at Vent Temperature, [ 154 °C] (% vol in air)	7.24			
Burning Velocity Measurement, Su cm/sec	54.20			
Maximum Pressure P <sub>max</sub> , psig	102.74			

UL 9540A, Edition 4,					
Clause	Requirement + Test	Result - Remark	Verdict		

·	TABLE: Critical components information					
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity	
Cell Model	Contemporary Amperex Technology Co.,Limited	CBDD0	Nominal voltage: 3.2V Rated capacity: 306Ah	UL 1973	MH62898	
Separator	Contemporary Amperex Technology Co.,Limited	SBM	Material: PE Size: LxWxT;(27937- 33532mm) * (176-214mm) * (0.008-0.018mm) Separator melting temperature: 140±5°C	-	-	
Electrolyte	Contemporary Amperex Technology Co.,Limited	ESN	Composition: LiPF6, DMC, EMC, EC, PC, DEC;	-	-	
Case	Contemporary Amperex Technology Co.,Limited	PPA	Material: Al 3003 Minimum thickness: 0.6-0.7mm	-	-	
Insulators/ location in cell	Contemporary Amperex Technology Co.,Limited	PTA PAP	Up-Plate Material: PP Down-Plate Material: PP		=	
Vent	Contemporary Amperex Technology Co.,Limited	РТА	Length: (25.3-30.3)mm, Width: (13.7-16.7)mm Material: MFX2 Valve opening pressure:( 0.4- 1.2)MPa	-	-	

Page 17 of 35



Attachment A: Cell Conditioning (Charge/discharge) Profiles - (Pages 17 through 19)

Figure 1: Cell 1 Conditioning (Charge/discharge) Profiles

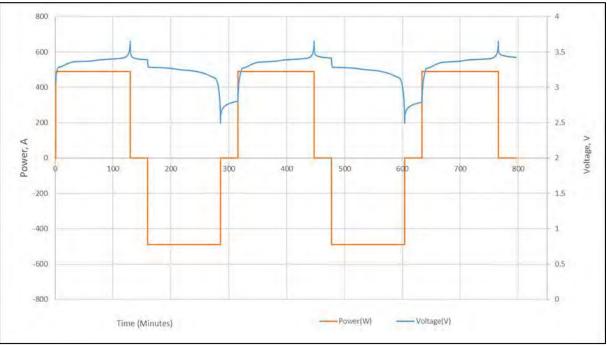


Figure 2: Cell 2 Conditioning (Charge/discharge) Profiles

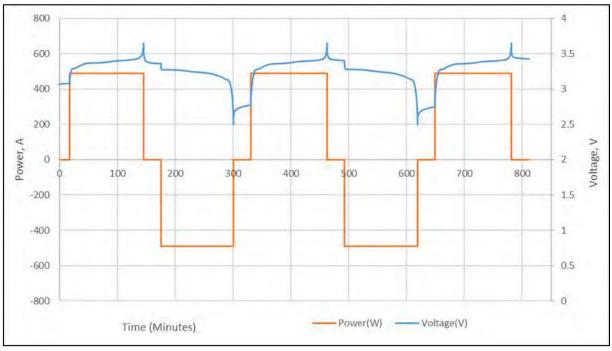


Figure 3: Cell 3 Conditioning (Charge/discharge) Profiles

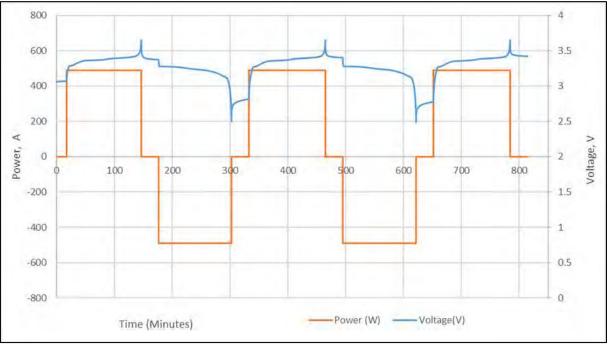


Figure 4: Cell 4 Conditioning (Charge/discharge) Profiles

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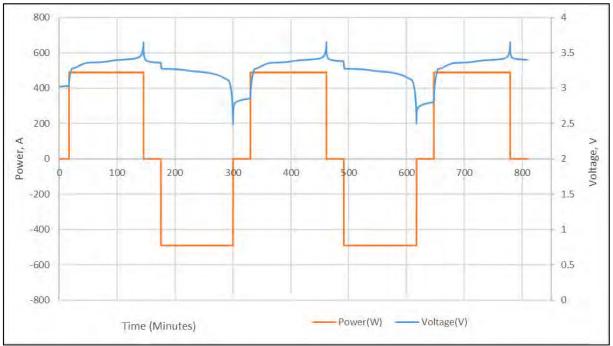
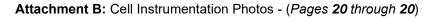
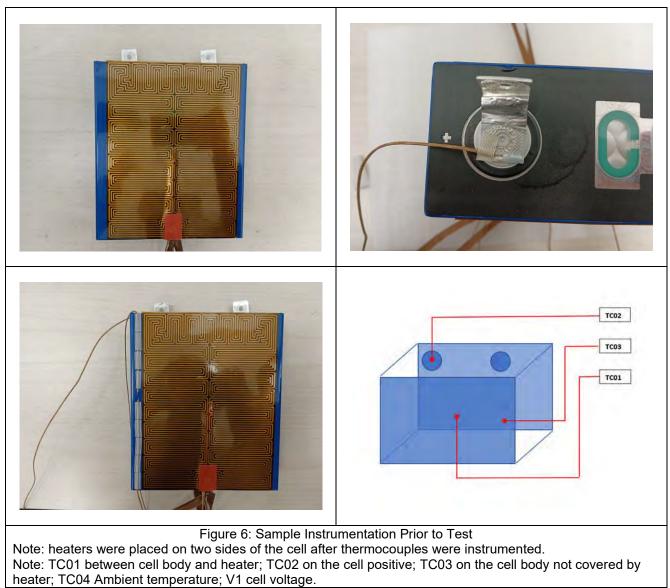


Figure 5: Cell 5 Conditioning (Charge/discharge) Profiles

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Attachment C: Cell Temperature Profiles during testing - (Pages 21 through 23)

Note: TC01 between cell body and heater; TC02 on the cell positive; TC03 on the cell body not covered by heater; TC04 Ambient temperature; V1 cell voltage.

TC01 was used to control the temperature at 4 to 7°C/min and TC03 temperatures were reported herein for the surface temperature at the onset of vent and thermal runaway.

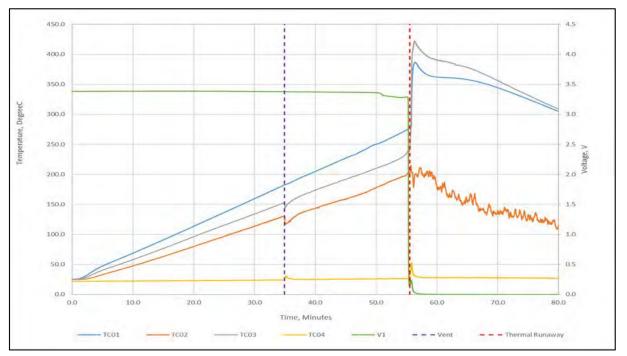


Figure 7: Cell 1 – External Heating 4.5°C per minute

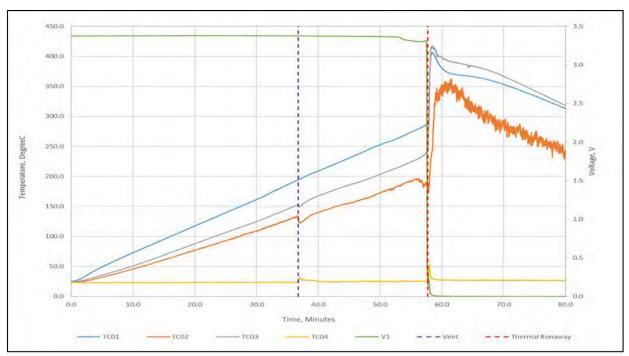


Figure 8: Cell 2 – External Heating 4.5°C per minute

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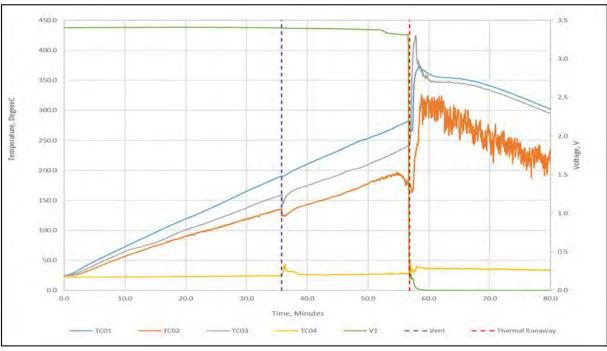


Figure 9: Cell 3 – External Heating 4.5°C per minute

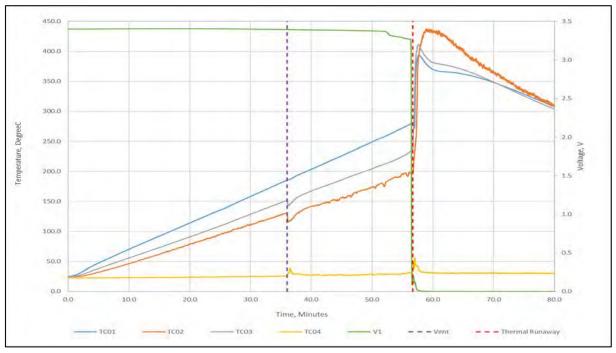


Figure 10: Cell 4 – External Heating 4.5°C per minute

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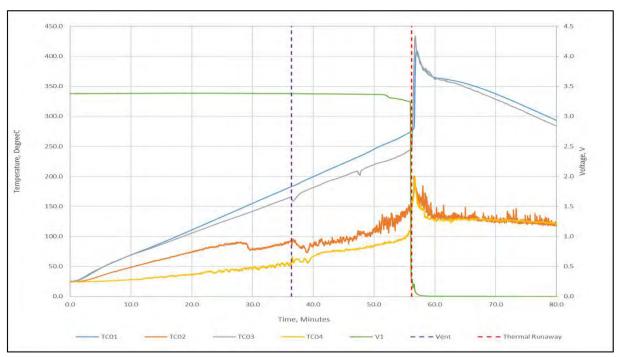
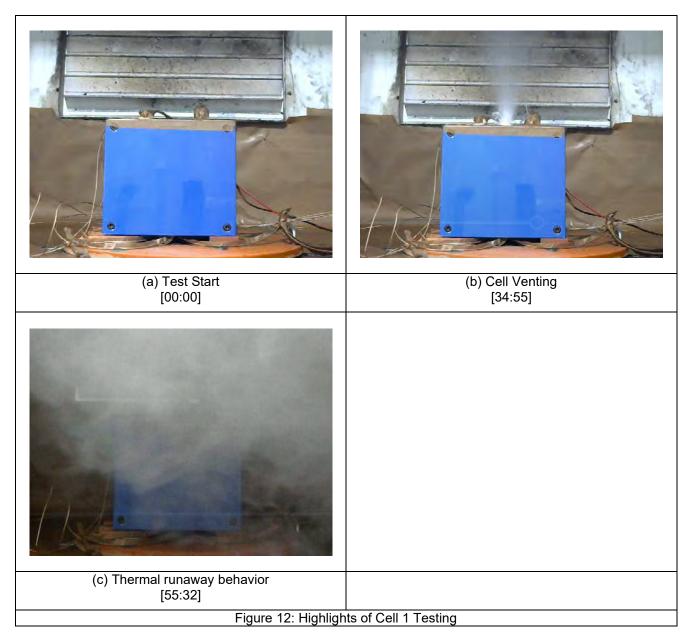


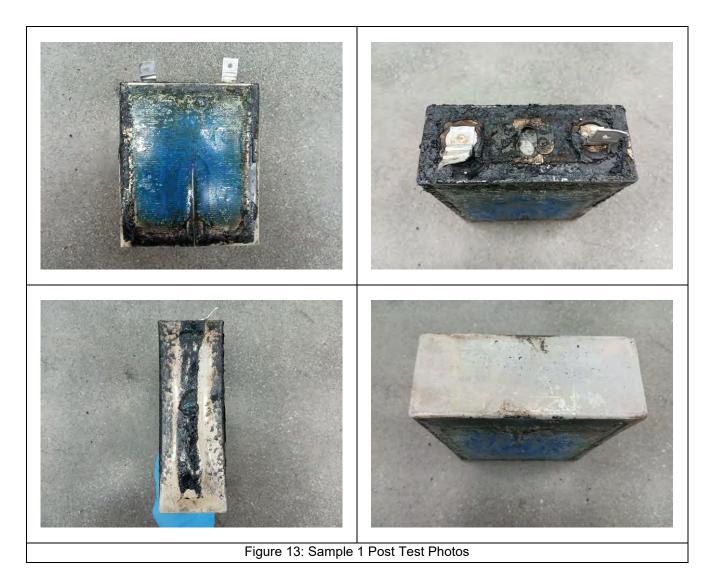
Figure 11: Cell 5 – External Heating 4.5°C per minute

# Attachment D: Cell Testing Photos - (Pages 24 through 33)

Cell Sample 1 – below figure shows highlights of cell testing. Cell venting and thermal runaway were observed, however no evidence of fire. Figure on next page shows photos of cell after testing.

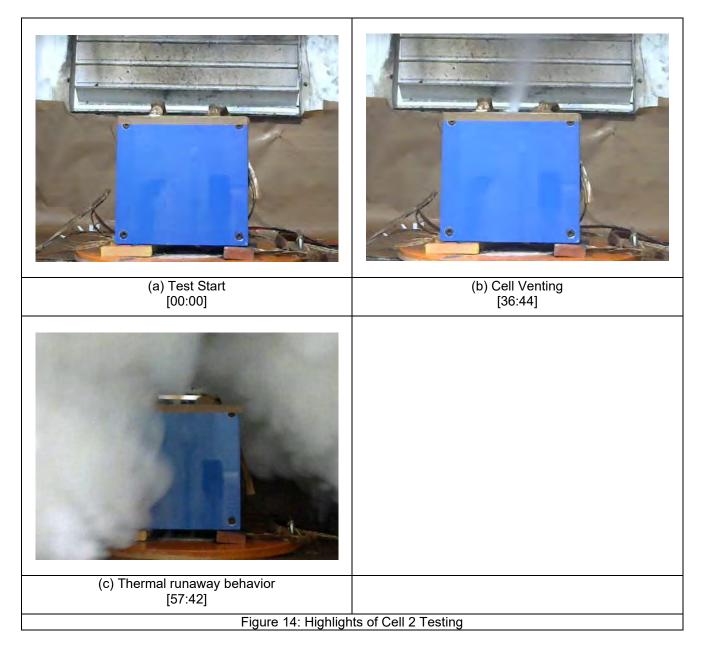


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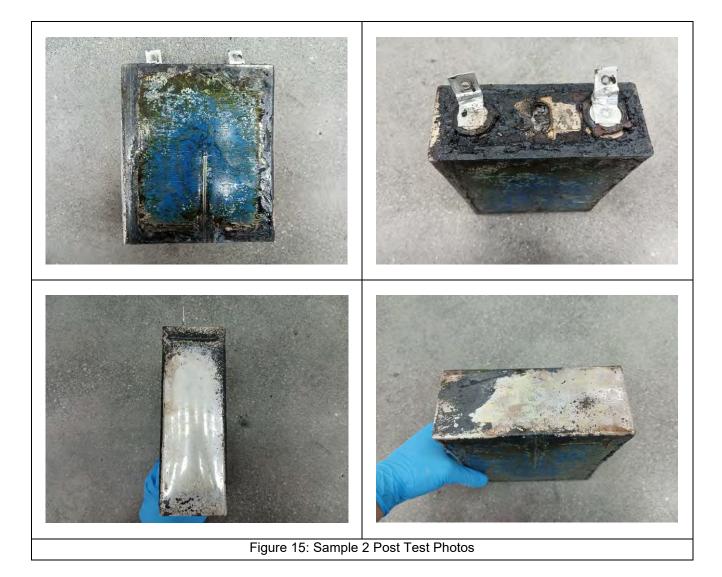
## Page 26 of 35

Cell Sample 2 – below figure shows highlights of cell testing. Cell venting and thermal runaway were observed, however no evidence of fire. Figure on next page shows photos of cell after testing.



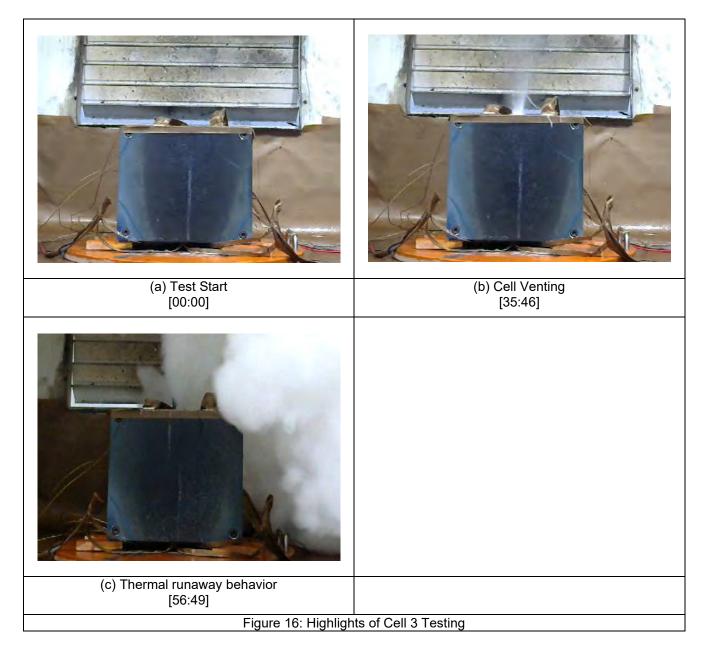
# Page 27 of 35

# Project No. 4790838636.3

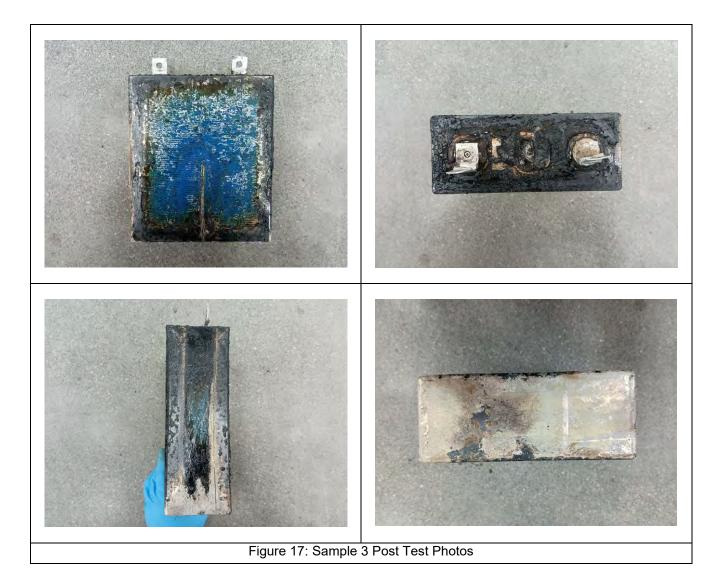


## Page 28 of 35

Cell Sample 3 – below figure shows highlights of cell testing. Cell venting and thermal runaway were observed, however no evidence of fire. Figure on next page shows photos of cell after testing.

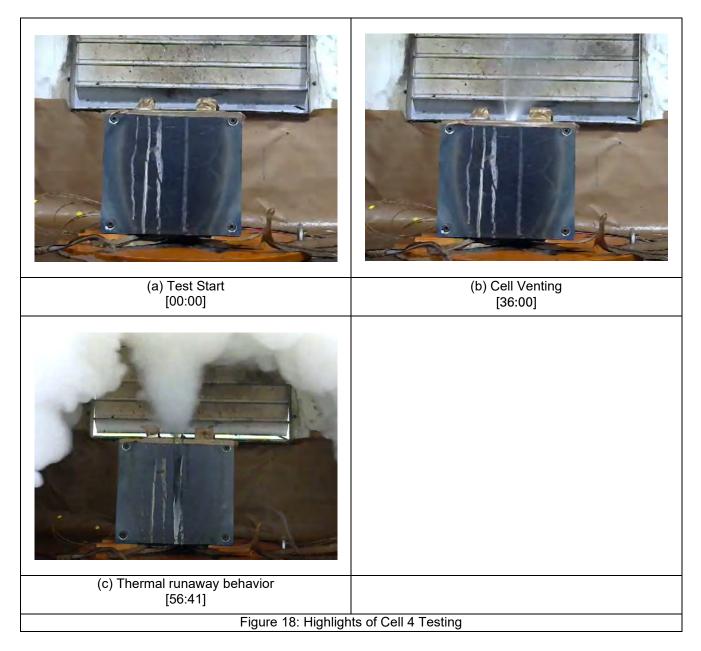


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## Page 30 of 35

Cell Sample 4 – below figure shows highlights of cell testing. Cell venting and thermal runaway were observed, however no evidence of fire. Figure on next page shows photos of cell after testing.



# Page 31 of 35



# Page 32 of 35

Cell Sample 5 – below figure shows highlights of cell testing. Cell venting and thermal runaway were observed, however no evidence of fire. Figure on next page shows photos of cell after testing.

(a) Test Start [00:00]	<image/> <caption></caption>
(c) Thermal runaway behavior [56:10]	
Figure 20: Highligh	ts of Cell 5 Testing

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# Project No. 4790838636.3



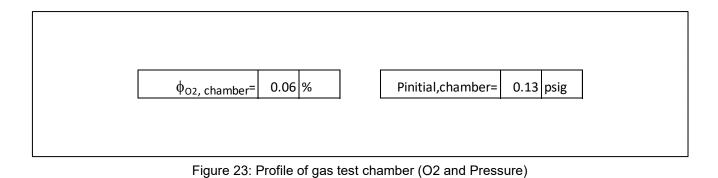
Figure 21: Sample 5 Post Test Photos

Attachment E: Cell vent gas test chamber photo and profile of chamber gas analysis (O2 and Pressure) - (Pages 34 through 34)

The gas composition test was conducted with the battery inserted into the battery gas composition test chamber and the chamber was sealed. The battery gas composition test chamber is a 100 L pressure vessel and is shown in figure below.

Prior to initiating thermal runaway, the chamber's atmosphere was purged until a condition of less than 1% oxygen by volume (actual 0.06%, with initial pressure 0.13psig).





ltem	Measure	Chemical formula	Conc.(%)
1	Carbon Monoxide	CO	14.596
2	Carbon Dioxide	CO <sub>2</sub>	26.925
3	Hydrogen	H <sub>2</sub>	43.066
4	Methane	CH₄	7.051
5	Ethylene	C <sub>2</sub> H <sub>4</sub>	3.289
6	Acetylene	$C_2H_2$	0.119
7	Ethane	$C_2H_6$	1.060
8	Propane	CH <sub>3</sub> CH <sub>2</sub> CH <sub>3</sub>	0.260
9	Propylene	C <sub>3</sub> H <sub>6</sub>	0.686
10	Propadiene (Allene)	C <sub>3</sub> H <sub>4</sub>	0.000
11	Isobutane	CH <sub>3</sub> CH(CH <sub>3</sub> )CH <sub>3</sub>	0.000
12	Butane	$C_4H_{10}$	0.12 <sup>,</sup>
13	Isobutylene	$C_4H_8$	0.322
14	1-Butene	$C_4H_8$	0.16 <sup>,</sup>
15	trans-2-Butene	$C_4H_8$	0.10 <sup>-</sup>
16	cis-2-Butene	$C_4H_8$	0.154
17	Pentane	$C_5H_{12}$	0.22
18	trans-2-Pentene	$C_5H_{10}$	0.06
19	cis-2-Pentene	$C_5H_{10}$	0.06
20	1,4-Pentadiene	C <sub>5</sub> H <sub>8</sub>	0.03
21	Hexane	$C_6H_{14}$	0.02
22	1-Hexene	$C_6H_{12}$	0.12
23	Benzene	C <sub>6</sub> H <sub>6</sub>	0.08
24	1-Heptene	$C_7H_{14}$	0.02
25	Toluene	$C_7H_8$	0.01
26	Styrene	C <sub>8</sub> H <sub>8</sub>	0.01
27	Dimethyl Carbonate	<b>C</b> <sub>3</sub> H <sub>6</sub> O <sub>3</sub>	1.304
28	Ethyl Methyl Carbonate	$C_4H_8O_3$	0.10
29	Diethyl Carbonate	C <sub>5</sub> H <sub>10</sub> O <sub>3</sub>	0.00
	Total	Measurement result	100.00

Attachment F: Cell Gas Analysis Report - (Pages 35 through 35)

Solutions N	IODULE TEST REPORT UL 9540A
Test Method for Eval	uating Thermal Runaway Fire Propagation
	Energy Storage Systems (AACD)
	Energy otorage of stems (AROD)
Project Number:	4790931782
Date of issue:	2023-09-13
Total number of pages:	27
UL Report Office:	UL(Changzhou) Quality Technical Service Co., LTD
Applicant's name:	Contemporary Amperex Technology Co., Limited
Address:	Contemporary Amperex Technology Co., Limited
	No.2 Xin'gang Road, Zhangwan Town, Jiaocheng District, Ningde, Fujian, China
Test specification:	4 <sup>th</sup> Edition, Section 8, November 12, 2019
Standard:	UL 9540A, Test Method for Evaluating Thermal Runaway Fire Propagation in Battery Energy Storage Systems
Test procedure	8.1 – 8.4
Non-standard test method:	N/A
Copyright © 2023 UL LLC All Rights R	eserved.
General disclaimer:	
The test results presented in this report on the list of the attachments.	rt relate only to the sample tested in the test configuration noted
	letermine whether the sample(s) was representative of production test sample(s), nor were we provided with information relative to

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the formulation or identification of component materials used in the test sample(s).

UL LLC, its employees, and its agents shall not be responsible to anyone for the use or non-use of the information contained in this Report, and shall not incur any obligation or liability for damages, including consequential damages, arising out of or in connection with the use of, or inability to use, the information contained in this Report.

Cells in Module:			
•Manufacturer Name		Contemporary Ampere Technology Co., Limite	
Part Number		CBDD0 Lithium Iron Phosphate	
•Chemistry			
•Format		Prismatic	
Ratings (Vdc, Ah) :		3.2V, 306Ah	
Was the cell certified? :		Yes	
Standard the cell was certified	d to:	UL 1973	
Organization that certified the	cell:	MH62898	
Average cell surface temperat		154	
Average cell surface temperat		241	
Gas Volume:	,	204L	
	, % volume in air at the ambient	8.595	
temperature:		0.000	
Lower flammability limit (LFL) temperature:	, % volume in air at the venting	7.24	
Burning velocity (S <sub>u</sub> ) cm/s:		54.20	
	3:	102.74	
Maximum pressure (P <sub>max</sub> ) psig	3:	102.74	
	g: Gas	102.74 Measured %	
Maximum pressure (P <sub>max</sub> ) psig			
Maximum pressure (P <sub>max</sub> ) psig Cell Gas Composition:	Gas	Measured %	
Maximum pressure (P <sub>max</sub> ) psig Cell Gas Composition: Carbon Monoxide Carbon Dioxide	Gas CO	Measured % 14.596	
Maximum pressure (P <sub>max</sub> ) psig Cell Gas Composition: Carbon Monoxide	Gas CO CO <sub>2</sub>	Measured % 14.596 26.925	
Maximum pressure (P <sub>max</sub> ) psig Cell Gas Composition: Carbon Monoxide Carbon Dioxide Hydrogen Methane	Gas CO CO2 H2 CH4	Measured %           14.596           26.925           43.066           7.051	
Maximum pressure (P <sub>max</sub> ) psig Cell Gas Composition: Carbon Monoxide Carbon Dioxide Hydrogen Methane Acetylene	Gas CO CO <sub>2</sub> H <sub>2</sub> CH <sub>4</sub> C <sub>2</sub> H <sub>2</sub>	Measured %           14.596           26.925           43.066           7.051           0.119	
Maximum pressure (P <sub>max</sub> ) psig Cell Gas Composition: Carbon Monoxide Carbon Dioxide Hydrogen Methane Acetylene Ethylene	Gas CO CO2 H2 CH4 C2H2 C2H2 C2H4	Measured %           14.596           26.925           43.066           7.051           0.119           3.289	
Maximum pressure (P <sub>max</sub> ) psig Cell Gas Composition: Carbon Monoxide Carbon Dioxide Hydrogen Methane Acetylene Ethylene Ethane	Gas CO CO2 H2 CH4 C2H2 C2H2 C2H4 C2H6	Measured %           14.596           26.925           43.066           7.051           0.119           3.289           1.060	
Maximum pressure (P <sub>max</sub> ) psig Cell Gas Composition: Carbon Monoxide Carbon Dioxide Hydrogen Methane Acetylene Ethylene Ethane Propylene	Gas           CO           CO2           H2           CH4           C2H2           C2H2           C2H4           C2H6           C3H6	Measured %           14.596           26.925           43.066           7.051           0.119           3.289           1.060           0.686	
Maximum pressure (P <sub>max</sub> ) psig Cell Gas Composition: Carbon Monoxide Carbon Dioxide Hydrogen Methane Acetylene Ethylene Ethane	Gas CO CO2 H2 CH4 C2H2 C2H4 C2H4 C2H6 C3H6 C3H6 C3H8	Measured %           14.596           26.925           43.066           7.051           0.119           3.289           1.060           0.686           0.260	
Maximum pressure (P <sub>max</sub> ) psig Cell Gas Composition: Carbon Monoxide Carbon Dioxide Hydrogen Methane Acetylene Ethylene Ethane Propylene	Gas           CO           CO2           H2           CH4           C2H2           C2H2           C2H4           C2H6           C3H6           C3H8           C4 (Total)	Measured %           14.596           26.925           43.066           7.051           0.119           3.289           1.060           0.686           0.260           0.865	
Maximum pressure (P <sub>max</sub> ) psig Cell Gas Composition: Carbon Monoxide Carbon Dioxide Hydrogen Methane Acetylene Ethylene Ethane Propylene Propane -	Gas           CO           CO2           H2           CH4           C2H2           C2H4           C2H6           C3H6           C3H8           C4 (Total)           C5 (Total)	Measured %           14.596           26.925           43.066           7.051           0.119           3.289           1.060           0.686           0.260           0.865           0.399	
Maximum pressure (P <sub>max</sub> ) psig Cell Gas Composition: Carbon Monoxide Carbon Dioxide Hydrogen Methane Acetylene Ethylene Ethylene Ethane Propylene Propane - -	Gas           CO           CO2           H2           CH4           C2H2           C2H4           C2H6           C3H6           C3H8           C4 (Total)           C5 (Total)           C6 (Total)	Measured %           14.596           26.925           43.066           7.051           0.119           3.289           1.060           0.686           0.260           0.865           0.399           0.148	
Maximum pressure (P <sub>max</sub> ) psig Cell Gas Composition: Carbon Monoxide Carbon Dioxide Hydrogen Methane Acetylene Ethylene Ethylene Ethane Propylene Propane - - 1-Heptene	Gas           CO           CO2           H2           CH4           C2H2           C2H2           C2H4           C2H6           C3H6           C3H6           C3H8           C4 (Total)           C5 (Total)           C6 (Total)           C7H14	Measured %           14.596           26.925           43.066           7.051           0.119           3.289           1.060           0.686           0.260           0.865           0.399           0.148           0.025	
Maximum pressure (P <sub>max</sub> ) psig Cell Gas Composition: Carbon Monoxide Carbon Dioxide Hydrogen Methane Acetylene Ethylene Ethylene Ethane Propylene Propylene - - - 1-Heptene Styrene	Gas           CO           CO2           H2           CH4           C2H2           C2H4           C2H6           C3H6           C3H6           C3H8           C4 (Total)           C5 (Total)           C6 (Total)           C7H14           C8H8	Measured %           14.596           26.925           43.066           7.051           0.119           3.289           1.060           0.686           0.260           0.865           0.399           0.148           0.025           0.013	
Maximum pressure (P <sub>max</sub> ) psig Cell Gas Composition: Carbon Monoxide Carbon Dioxide Hydrogen Methane Acetylene Ethylene Ethylene Ethane Propylene Propylene - - - 1-Heptene Styrene Benzene	Gas           CO           CO2           H2           CH4           C2H2           C2H4           C2H6           C3H6           C3H8           C4 (Total)           C5 (Total)           C6 (Total)           C7H14           C8H8           C6H6	Measured %           14.596           26.925           43.066           7.051           0.119           3.289           1.060           0.686           0.260           0.865           0.399           0.148           0.025           0.013           0.082	
Maximum pressure (P <sub>max</sub> ) psig Cell Gas Composition: Carbon Monoxide Carbon Dioxide Hydrogen Methane Acetylene Ethylene Ethylene Ethylene Propylene Propane - - 1-Heptene Styrene Benzene Toluene	Gas           CO           CO2           H2           CH4           C2H2           C2H2           C2H4           C2H6           C3H6           C3H6           C3H6           C3H8           C4 (Total)           C5 (Total)           C6 (Total)           C7H14           C8H8           C6H6           C7H8	Measured %           14.596           26.925           43.066           7.051           0.119           3.289           1.060           0.686           0.260           0.865           0.399           0.148           0.025           0.013           0.082           0.012	
Maximum pressure (P <sub>max</sub> ) psig Cell Gas Composition: Carbon Monoxide Carbon Dioxide Hydrogen Methane Acetylene Ethylene Ethylene Ethane Propylene Propylene - - - 1-Heptene Styrene Benzene	Gas           CO           CO2           H2           CH4           C2H2           C2H4           C2H6           C3H6           C3H8           C4 (Total)           C5 (Total)           C6 (Total)           C7H14           C8H8           C6H6	Measured %           14.596           26.925           43.066           7.051           0.119           3.289           1.060           0.686           0.260           0.865           0.399           0.148           0.025           0.013           0.082	

Мо	dule level Information		
	Model No:	M02306P05L01	
	Ratings (Vdc, Ah) :	166.4V, 612Ah	
	Module cell configuration (xS/yP):	52S2P	
	Module dimensions (W × D × H (mm)) :	830mm*2235mm * 2	250mm
	Module weight (kgs) :	653±5kg	
	Module enclosure material:	Top Plastic enclosu -Material: PP -Thickness: ≥2.5mm	2235±3.5)*(830±3)*(31±3) re: 1
		-Size: L*W*H (mm)	2203.1*830*218.5
		-Fire rating: V-0	temperature: 90±2°C
	Was the module certified? :	N/A	
	Standard the module was certified to:	N/A	
	Organization that certified test item:	N/A	
	<ul> <li>Cell failure test method performed for the module level (summary of method and test clause):</li> <li> ⊠ External heating using thin film with 4°C to 7°C thermal ramp. </li> <li> Nail Penetration Overcharge External short circuit (<i>X</i> Ω external resistance) Others</li></ul>		
	Description of method used to fail cells if other than external thin film heater with thermal ramp, :N/A		
	Description of components employed within the module that serve to supress propagation (fire protection features). N/A		
	Number of initiating cells failed to achieve propaga	tion.	1
	Thermal Runaway Propagation:		Initiating cell went into thermal runaway and propagated to three adjacent cells.
	Maximum Smoke Release Rate (m²/s)		0.52
	Total Smoke Released: (m <sup>2</sup> )		1.41
	Total smoke released duration		0:47:08 to 2:00:00

	Page 4 of 27	Project No. 4790931782
Peak Chemical Heat Release Rate:	(kW):	No flaming occurred
External Flaming:		No external flaming

External Flaming:No external flaming<br/>occurredLocation(s) of Flame Venting:No flaming occurredFlying Debris:No flying debris occurredRe-ignitions:No further re-ignitions<br/>were observed during post<br/>test observation

## Summary of Module level test Gas Analysis Data:

#### Gas Analysis:

☑ Flame ionization detection

**Fourier-Transform infrared Spectrometer** 

#### Hydrogen Sensor (palladium-nickel, thin-film solid state sensor)

White light source with photo detector (smoke release rate)

## • Gas Composition & Volume for Each Compound (Pre-flaming and After flame):

Gas Compound	Gas Type	Pre-Flaming (L)	Flaming (L)	Minimum detectable flow rate (LPM)
Total Hydrocarbons (Propane Equivalent)	Hydrocarbons	260.29	No flaming	0.50
Carbon Dioxide	Carbon Containing	217.03	No flaming	1.82
Carbon Monoxide	Carbon Containing	77.57	No flaming	0.61
Hydrogen	Hydrogen	263.37	No flaming	14.29

#### Summary of Module testing:

## Performance Criteria in accordance with Clause 8.4 and Figure 1.1:

[X] The effects of thermal runaway was contained by the module design;

[ ] Cell vent gas (based upon the cell level test) was non-flammable

#### Necessity of a unit level test

**[X]** The performance criteria of the module level test as indicated in 8.4 and as shown in Figure 1.1 of UL 9540A 4th edition has not been met, therefore unit level testing in accordance with UL 9540A will need to be conducted on a complete unit employing this module.

[] The performance criteria of the module level test as indicated in 8.4 and as shown in Figure 1.1 of UL 9540A 4th edition has been met, therefore unit level testing in accordance with UL 9540A need not be conducted.

Testing Laboratory information

## Testing Laboratory and testing location(s):

Testing Laboratory:	Beijing Building Materials Testing Academy
	Block 1, B15 Yaxin Road, Doudian Town, Fangshan district, Beijing 102402, CN PSN: 3369533

Page 5 of 2	27	Project No. 4790931782
Tested by (name, signature)	Zhang Qi, Huang	Fei
Witnessed by (for 3 <sup>rd</sup> Party Lab Test Location) (name, signature)	N/A	N/A
Project Handler (name, signature)	Arui Zhou	AruiZhou
Reviewer (name, signature)	Benjamin Liu	Benjamin bin

t of Attachments (including a total number of pages in each attachment):
achment A: Module Conditioning (Charge/discharge) Profiles - (Pages 19 through 19)
achment B: Module Construction Photos - (Pages 20 through 20)
achment C: Module Instrumentation Photos - (Pages 21 through 21)
achment D: Module and Initiating Cell(s) Temperature Profiles During Testing - (Pages 22 through 22
achment E: Module Testing Photos - (Pages 23 through 24)
achment F: Module Gas Flow Rate and Heat Release Profiles - (Pages 25 through 27)

## Photo(s) of module:



Test Item Charge/Discharge Specifications:

- Charge Power, kW:
- Standard Full charge Voltage, Vdc:
- Charge temperature range, °C:
- End of charge voltage, Vdc:
- Discharge Power, kW:
- End of discharge voltage, Vdc:
- Discharge temperature range, °C:
- Storage temperature, °C:

# M02306P05L01 50.91, then 5.091 Any cell reaches of 3.65V or total voltage reach 189.8V 0~60

Any cell reaches of 3.65V or total voltage reach 189.8V

# 50.91

Any cell reaches of 2.5V or total voltage reach 130V

-20~60

-30~60

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Project No. 4790931782

UL	9540A,	Edition	4
<u> </u>	0040/3	Laidon	-т,

Clause	Requirement + Test	Result - Remark	Verdict
--------	--------------------	-----------------	---------

Test item particulars
Possible test case verdicts:
- test case does not apply to the test object N/A
- test object does meet the requirement P (Pass)
- test object does not meet the requirement F (Fail)
- test object was completed per the requirement: C(Complete)
- test object was completed with modification: M(Modification)
Testing:
Date of receipt of test item: 2023.08.15
Date (s) of performance of tests 2023.08.18
General remarks:
General remarks: "(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.
"(See Enclosure #)" refers to additional information appended to the report.
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.

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Project No. 4790931782

UL 9540A, Edition 4,

Clause	Requirement + Test	Result Remark	Verdict
Clause		Result - Remark	Vertice

Name and address of factory (ies):	Factory1: Contemporary Amperex Technology Co., Limited Factory address1: No.2 Xin'gang Road, Zhangwan Town, Jiaocheng District, Ningde, Fujian, China
	Factory 2: Guangdong Ruiqing Contemporary Amperex Technology Limited
	Factory address 2: No.1 Contemporary Avenue, Sihui City, Zhaoqing City, Guangdong Province, People's Republic of China
	Factory 3: Yichun Contemporary Amperex Technology Limited
	Factory address 3: No.1 chunfeng Road ,Economic and Technological Development Zone ,Yichun City, Jiangxi Province, People's Republic of China
	Factory 4: Jiaocheng Contemporary Amperex Technology Limited
	Factory address 4: No. 1, outer ring road, Feiluan Town, Jiaocheng District, Ningde City, Fujian Province China
General product information and other remarks:	
Battery Module Model M02306P05L01 employs cell N Technology Co., Limited, rated 166.4V, 612Ah.	Iodels CBDD0 manufactured by Contemporary Amperex

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5.0	CONSTRUCTION		
5.2	Module Construction		_
5.2.1, 5.2.3	Construction information	See Test Item Description at the beginning of this report	—
	General layout of module contents	See Attachment B	_
5.2.2	Module certified to UL 1973	No	
	Organization that certified module:	N/A	_
6.0	PERFORMANCE		Verdict
6.1	General		
8.1	Samples		
8.1.1	Samples conditioned through charge discharge cycling a minimum of 2 cycles.	See Attachment A for profiles See Table 1 for specifications	М
8.1.2	100% SOC and stabilize from 1h to 8 h before testing	See also Table 2 The module voltage was checked before the test, and the voltage did not drop further compared to 1h to 8h after cycles, which was judged acceptable.	
8.1.3	Electronic controls such as BMS not relied upon during testing.		С
8.2	Test Method		-
8.2.1	Ambient indoor laboratory conditions:See Table 3 $25 \pm 5^{\circ}C (77 \pm 9^{\circ}F)$ The ambient humidity at the beginning of the test was 79%. The engineering judgment is that it is acceptable.		М
8.2.2	Test conducted under a smoke collection hood appropriately sized for the module	See Attachment C for figures showing location within the module of the cell(s) forced into thermal runaway	С
8.2.3	The weight of the module was recorded before and after testing, (kg)	eight of the module was recorded before and See Table 11	
8,2,4	A sufficient number of cells were forced into thermal runaway to create a condition of cell to cell propagation within the module.	See Attachment C See Tables 4 and 5 One cell was forced into thermal runaway selected by client.	С
	The location of the cell(s) forced into thermal runaway were selected to present the greatest thermal exposure to adjacent cells	See Attachment C for figures showing location within the module of the cell(s) forced into thermal runaway	С

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8.2.5	The method used to initiating thermal runaway in the cell(s) were in accordance with 7.2	See Summary of Cell Testing at the beginning of this report.	С
8.2.6	The occurrence of thermal runaway was verified	See Test Results from Cell Level Test from the beginning of this report.	С
		See Attachments D	
8.2.7	The module was placed on top of a non-combustible horizontal surface with the module orientation representative of its intended final installation.See Attachment E		С
8.2.8	The chemical heat release rate of the module was measured with oxygen consumption calorimetry	See Table 10 See Attachment F	С
8.2.9	The chemical heat relate rate was measured for the duration of the test	See Attachment E	С
8.2.10	<ul> <li>The chemical heat release rate was measured using the following equipment:</li> <li>Paramagnetic oxygen analyser</li> <li>Non-dispersive infrared carbon dioxide and carbon monoxide analyser</li> <li>Velocity probe</li> <li>Type K thermocouple</li> </ul>	See Table 10 See Attachment F	С
	The instrumentation was located in the exhaust duct of the heat release rate calorimeter at a location that minimizes the influences of bends or exhaust devices.	See Attachment F	С
8.2.11	The chemical heat release rate at each of the flows was calculated in accordance with 8.2.11.	See Attachment F	С
8.2.12	The hydrocarbon content of the vent gas was measured using flame ionization detection.	See Attachment F	С
	Hydrogen gas shall be measured with a palladium- nickel thin-film solid state sensor.	See Table 9	С
8.2.13	The hydrocarbon content of the vent gas may also be measured using a Fourier-Transform Infrared Spectrometer with a minimum resolution of 1 cm-1 and a path length of at least 2 m (6.6 ft), or equivalent gas analyzer.	FTIR analysis was not used in accordance with the Certification Requirement Decision: Corrections to gas measurement methods to make FTIR as an option for measuring hydrocarbon contents of gas emissions and to include Hydrogen measurements during the Unit Level Test. FTIR was considered redundant to the other gas measurement methods used.	С

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	Vent gas velocity and temperature measurements respectively were obtained in the exhaust duct of the heat release rate calorimeter using equipment specified in 8.2.10.		С
8.2.14	The light transmission in the exhaust duct of the heat release rate calorimeter was measured using a white light source and photo detector for the duration of the test.		С
8.2.15	Smoke release rate was calculated as outlined in 8.2.15	See Table 10	С
		See Attachment F	
8.3	Module level test report		
	<ul> <li>a. Module manufacturer and model number;</li> <li>b. Number of cells in module;</li> <li>c. Module configuration;</li> </ul>	See Test Item Description in beginning of this report.	С
	d. Module construction features;	See Attachment C See Critical Components Table	С
	e. Module voltage corresponding to the tested SOC;	See Table 3	С
	f. Thermal runaway initiation method used;	See Attachment C	С
	g. Heat release rate versus time data;	See Table 10	С
		See Attachment F	
	h. Flammable gas generation and composition	See Attachment F	С
	data;	See Tables 8 and 9	
	i. Peak smoke release rate and total smoke release data.	See Table 10	С
	<ul> <li>j. Observation(s) of flying debris or explosive discharge of gases;</li> </ul>	See Table 12	С
	<ul> <li>k. Observation(s) of sparks, electrical arcs, or other electrical events;</li> </ul>	See Table 12	С
	I. Identification/location of cells(s) that exhibited thermal runaway within the module;	See Tables 4 and 5	С
	m. Locations and visual estimations of flame extension and duration from the module;	See Attachments E and F See Table 7	С
	n. Module weight loss;	See Table 11	С
	o. Video of the test.		С
8.4	Performance – Module level		
8.4.1	The following performance conditions are met during the module level test: a) Thermal runaway is contained by module design;	Thermal runaway was contained by module design.	Р

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Verdict

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ſ	b) Cell vent gas is nonflammable as determined by the cell level test	Cell gas report show the cell gases are flammable. See Cell	F
		Gas Composition Table.	

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Table 1 – Specified conditioning parameters				
Charging: Discharging:		Discharging:		
Power (CP), kW	50.91,then 5.091	Power (CP), kW	50.91	
Standard full Charge Voltage, Vdc	Any cell reaches of 3.65V or total voltage reach 189.8V	End of discharge voltage, Vdc	Any cell reaches of 2.5V or total voltage reach 130V	
Cutoff Voltage, Vdc	Any cell reaches of 3.65V or total voltage reach 189.8V	Cutoff Voltage, Vdc	Any cell reaches of 2.5V or total voltage reach 130V	
Charging Test Ambient, °C	0~60	Discharging Test Ambient, °C	-20~60	
Refer to Attachment A for charge/discharge profiles for the module.				

Table 2 – Charge completion and module test initiation times		
Charge Completion Date and Time Module Test Date and Time		
2023-8-14 19:01 PM	2023-8-18 09:33 AM	

Table 3 - Test Initiation Details			
Module No.:			
Test Date	2023-08-18		
Test Start Time	09:33 AM		
Initial Lab Temperature	28.0°C		
Initial Relative Humidity	79%		
Module OCV at Start of Test, Vdc	173.2V		

Table 4 – Approximate time of thermal runaway propagation through module			
Time to thermal runaway Location			
0:48:53	Cell 20-2		
0:50:41	Cell 20-1		
0:54:54	Cell 21-1		
1:07:12	Cell 21-2		

Table 5 – Test overview timeline			
Time (HH:MM:SS)	Event	Description	
00:00:00	Test Start	The test was started and the heater was turned on to heat the initiating cell (Cell 20-2) at a ratio of 4 ~ 7 °C/min.	
00:47:08	Venting of initiating Cell	Initiating cell (Cell 20-2) vented at around 173.5 °C measured through TC 2-1 by an indication of sudden dip in cell's temperature curve. See Figure (b)	
00:48:53	Thermal runaway of initiating cell	Initiating cell (Cell 20-2) was at around 183.2 °C measured through T2-1. The temperature of cell 20-2 began to increase inan uncontrollable manner, With the release of smoke. See Figure (c)	
00:50:41	Thermal runaway of initiating cell	Thermal runaway propagated to nearby cell (cell 20-1). More gas released and accompanied by electrolyte and molten material outflow. See Figure (e)	

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00:54:54	Thermal runaway of initiating cell	Thermal runaway propagated to nearby cell (cell 21-1). More gas released. See Figure (f)
01:07:12	Thermal runaway of initiating cell	Thermal runaway propagated to nearby cell (cell 21-2). More gas released. See Figure (g)
02:00:00	Test Termination	Data acquisition was stopped. The module was left in the test overnight and with video monitored.

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Table 6 – Gases measured and measurement methods used in unit level testing				
Measurement Method	Gases Measured	Chemical Formula	Gas Type	
Flame Ionization Detection (FID)	Total Hydrocarbons	-	Hydrocarbons	
Solid-state Hydrogen Sensor	Hydrogen	H <sub>2</sub>		
Non-dispersive infrared spectroscopy (NDIR)	Carbon Dioxide	CO <sub>2</sub>	Carbon Containing	
	Carbon Monoxide	СО	Carbon Containing	
# - This table was modified to reflect the gases measured during testing.				

Table 7 - Gas generation periods					
Time Condition					
0:47:08 to 02:00:00	No flaming				
Exter	External Flaming of Gas				
Condition	Duration (hh:mm:ss)				
External Flaming of Vent Gases: N/A					

Table 8– Summary of battery gas volumes for deflagration hazard calculations							
Gas Component	Gas Type	During Pre- flaming (L)	During Flaming (L)	Minimum detectable flow rate (LPM)			
See Table 9							

Table 9– Summary of battery gas volumes for deflagration hazard calculations						
Gas Component	hent Gas Type During Pre- flaming (L) During Flaming (L)					
Total Hydrocarbons (Propane Equivalent)	Hydrocarbons	260.29	No flaming	0.50		
Carbon Dioxide	Carbon Containing	217.03	No flaming	1.82		
Carbon Monoxide	Carbon Containing	77.57	No flaming	0.61		
Hydrogen	Hydrogen	263.37	No flaming	14.29		

Table 10 – Smoke and heat release rate						
Heat Release Rat	te (HRR)	Smoke Release Rate (SRR)				
Peak Chemical HRR (kW)	0(No flaming)	Maximum SRR (m <sup>2</sup> /s)	0.52			
Total Smoke Released (m <sup>2</sup> ) 1.41						

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Table 11 – Module Weight During Test, kg				
Before Test: 655.5kg				
After Test: 653.5kg				
Weight Loss:	2kg			

Table 12 – Other Observations during module test					
Observed, Yes/No Location					
Flying debris	No	N/A			
Explosive discharge of gas	No	N/A			
Sparks or electrical arcs					

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Object / Part	Manufacturer/	Type /	Technical data	Standard	Mark(s) of
No.	trademark/ Supplier Code	model		Standard	conformity
Cells	CATL	CBDD0	Nominal voltage: 3.2Vdc Rated capacity: 306Ah	UL 1973 IEC 62619: 2022	UL MH62898 JPTUV-146897
Metal enclosure	CATL	-	Material: Al6063.T6 Thickness: ≥2mm Size: L*W*H(mm) (2235±3.5)*(830±3)*(31±3)	-	-
Plastic enclosure	0000013277	NHPP- FR NHPP- FR-2	Fire rating: V-0 Material: PP RTI: 65°C	UL746	UL E171666
Connector	0000007975	REA4	Voltage: 1500VDC Current: 350A for TUV, 300A for UL Fire rating: V-0	UL4818 EN 61984	UL E526230 J 50586193
Connecting wire for HV	0000009966	3932	Voltage: 2000V Current-carrying capability: 75°C 350A Maximum ambient temperature:-40°C~+125°C	UL 758 EN 50525 IEC 60227 IEC 60228:2004	E214184 M.2021.206.C63716
Wire for LV	0000009966	3666	Voltage: 600V Wire diameter: (0.5~4mm2) Maximum ambient temperature: -40°C~+105°C	UL 758 EN 50525 IEC 60227 IEC 60228:2004	E214184 0B160705.DNTDS30
Plastic material (Harness isolation plate)	0000015262	PP C6540R- G20HF	Fire rating: V-0 Maximum ambient temperature: 90±2°C	UL94	SHMR220800424401
Plastic material (Output pole base)	0000007541	46GF30	Fire rating: V-0 Maximum ambient temperature: 180°C	UL94	UL E225348
Plastic material (Buffer pad)	0000007929	MPP	Fire rating: V-0 Maximum ambient temperature: 100°C	UL94	UL E509966

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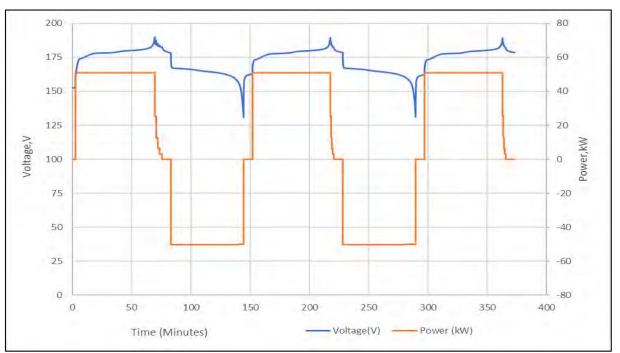
Plastic material (PC Insulating sheet)	0000007929	U42B- 1(PC)	Fire rating: VTM-0 Maximum ambient temperature: -40°C ~+85°C	UL94	A2230075498101C
Plastic material (Fuse base)	0000027338	PBT- GF30	Fire rating: V-0 Maximum ambient temperature: 120±2°C	UL94	UL E225348
Plastic material (Wire harness bracket)	0000027338	PBT- GF30	Fire rating: V-0 Maximum ambient temperature: 120±2°C	UL94	UL E225348
Plastic material (Injection- molded slide rail)	0000027338	РОМ	Fire rating: HB Maximum ambient temperature: 90±2°C	UL94	UL E171666
Plastic material (Fuse Protective Cover)	0000027338	P2G(X)	Fire rating: V-0 Maximum ambient temperature: 120±2°C	UL94	E204321
Plastic material (Gasket)	0000011532	SecA	Fire rating: ≥V-0 Maximum ambient temperature: -50~200°C	UL94	UL E529227
Mica paper	0000014138	_	Fire rating: V-0 Maximum ambient temperature: 1000±200°C	GB/T 2408- 2008 UL94	MS220712040C-04 E302583

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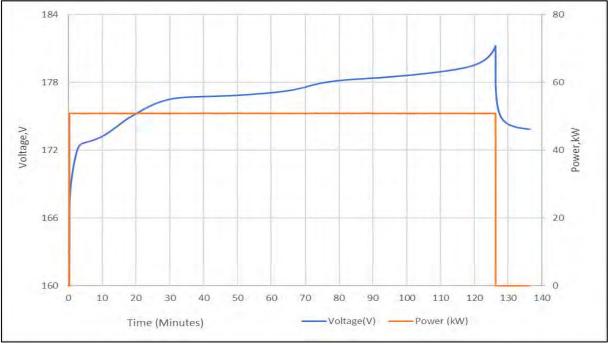
Attachment A: Module Conditioning (Charge/discharge) Profiles - (Pages 19 through 19)

Ntoe: 1. BMS power reduction charging strategy is as follows: initially charge at 1P until the battery voltage is 3.65 V, then reduce the charging power to 0.5 P, while the battery voltage is 3.65 V, reduce the charging power to 0.25 P, then charge at 0.125 P and 0.05 P to 3.65 V in turn, and then stand for 10min, and discharge at 1P power until the voltage is 2.5 V, and the discharge ends.

2. Charge to 100% SOC: Charge at constant power 50.91kW until any cell voltage reaches 3.65V then derate until charge with 0.05P till 189.8V or any cell voltage reaches 3.65V



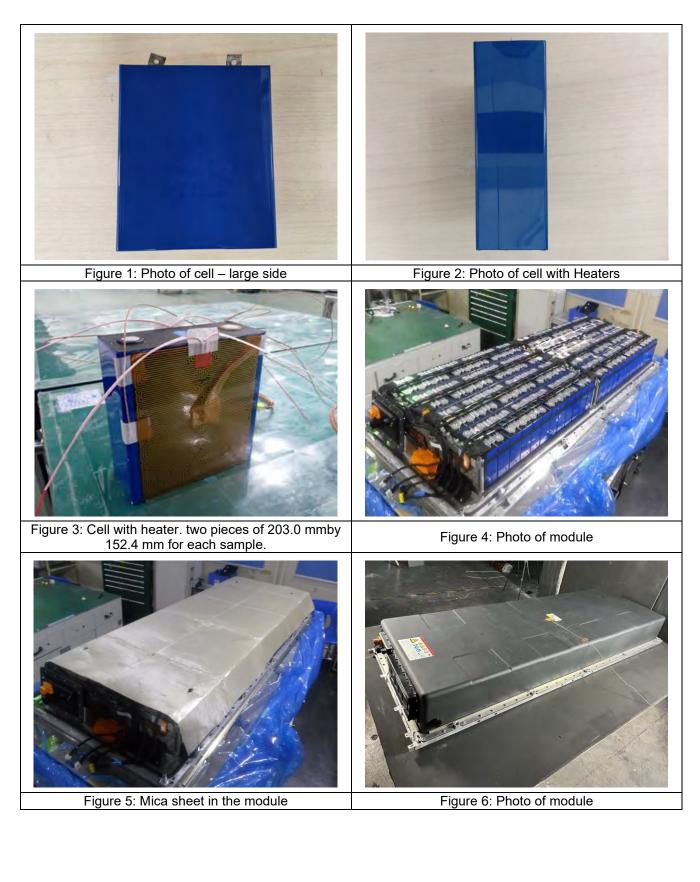
Chargre/Discharge Cycle



Charge to 100% SOC

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Attachment B: Module Construction Photos - (Pages 20 through 20)



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## Attachment C: Module Instrumentation Photos - (Pages 21 through 21)



Figure 7: Module on the test platform-side view Figure 8: Module on the test platform-front view

Note: The thermocouple T1-1 was used to control the supply power to the heater to keep the heating rate at 4  $\sim$  7 °C/min. T2-1 and T2-3 were used to represent the temperature of initiating cell.

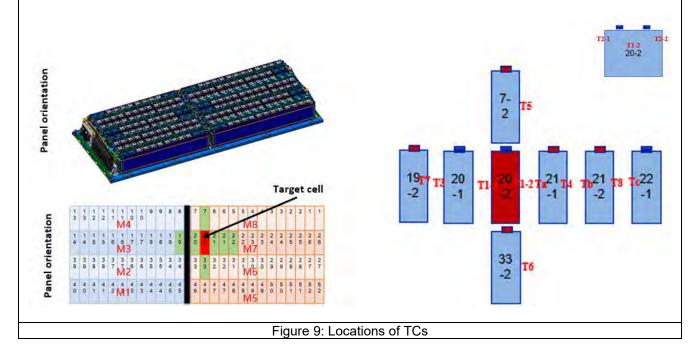
T1-1, on the wide side surface center of cell 20-2, between the cell and heater.

T1-2 on the other wide side surface center of cell 20-2, between the cell and heater.

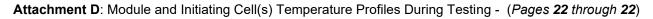
T2-1, T2-2, on each wide side surface center of cell 20-2, not covered by heater.

V1, V3, V4, V5, V6, V6, V7, V8, V9 was the voltage of cell 19-2, 20-1, 21-1, 22-1, 7-2, 33-2, M6, M7, M8 separately.

T3 to T8 and Ta to Tc were attached on the wide side surface center of cells shown in below illustration.



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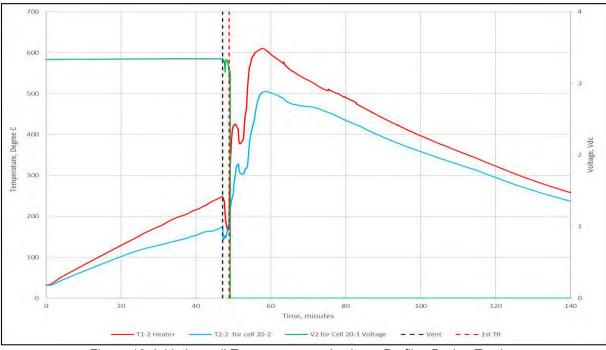


Figure 10: Initiating cell Temperature and voltage Profiles During Testing

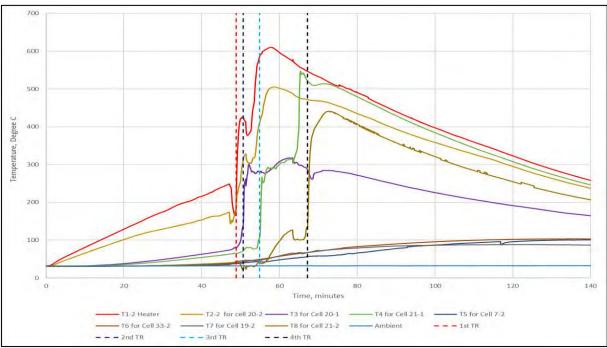
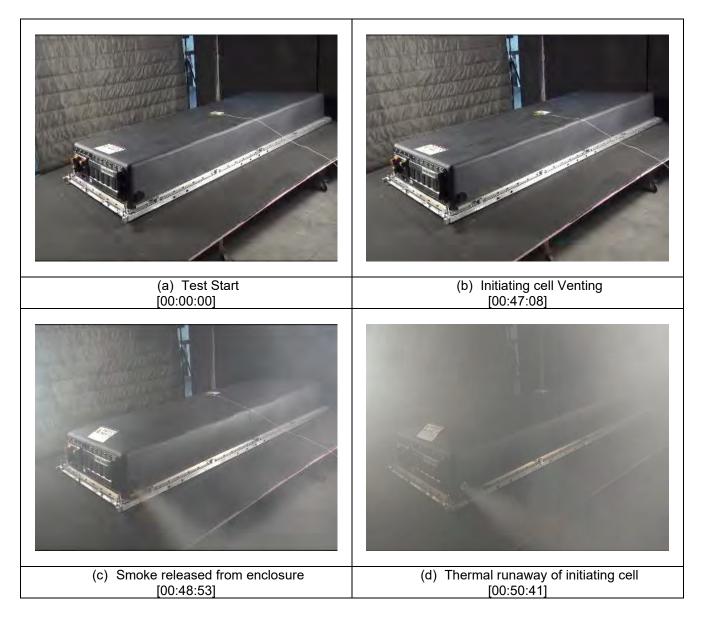


Figure 11: Temperature Profiles Describing Cell to Cell Propagation

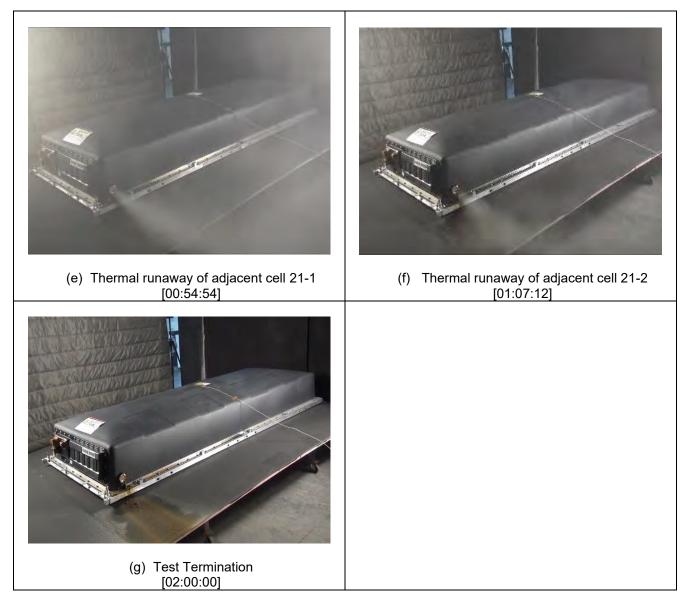


# Attachment E: Module Testing Photos - (Pages 23 through 24)

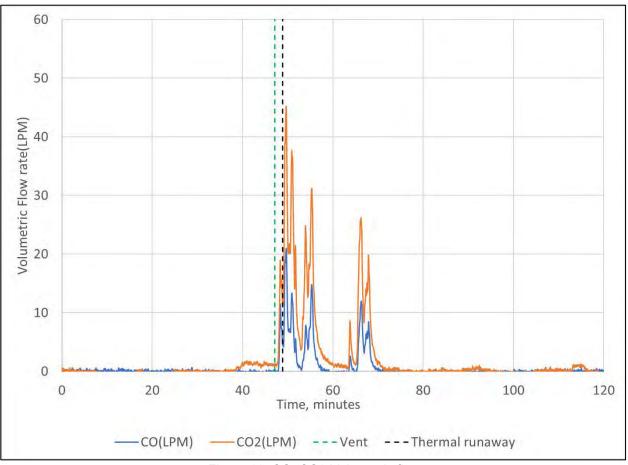


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Attachment F: Module Gas Flow Rate and Heat Release Profiles - (Pages 25 through 27)

Figure 12: CO, CO2 Volumetric flow rates

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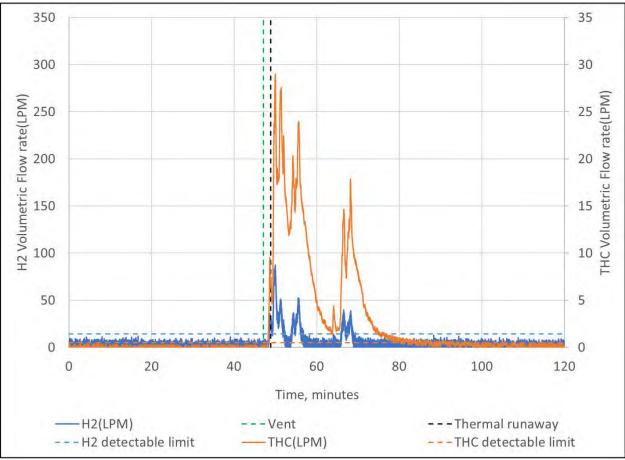


Figure 13: THC, H2 Volumetric flow rates

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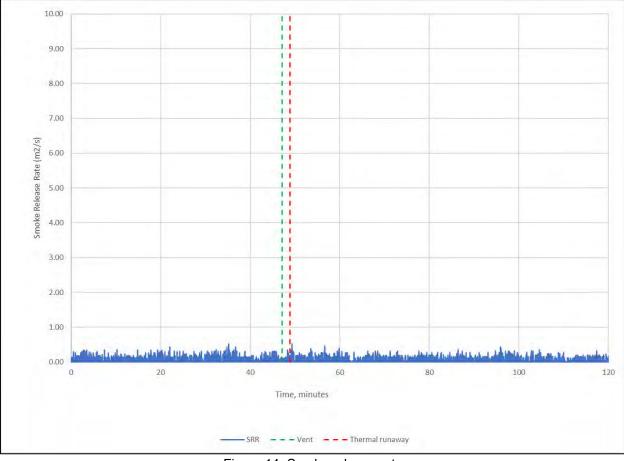


Figure 14: Smoke release rate