

Phase I Environmental Site Assessment

Estrella Solar

SW of the Intersection of West Avenue A and 90TH Street W

APNs: 3262-006-002 and 3262-006-003

Lancaster and Antelope Acres, Los Angeles County, California 93536

April 17, 2020, Revised April 12, 2021

Terracon Project No. 60197493



Prepared for:

Sustainable Power Group, LLC (sPower)
Long Beach, California

Prepared by:

Terracon Consultants, Inc.
Tustin, California

terracon.com

Terracon

Environmental



Facilities



Geotechnical



Materials

April 17, 2020, Revised April 12, 2021



Sustainable Power Group, LLC (sPower)
5000 East Spring Street, Suite 130
Long Beach, California 90815

Attn: Mr. Dallas Pugh
P: (562) 348-1119
E: dallas.pugh@spower.com

Re: Phase I Environmental Site Assessment
Estrella Solar
Southwest of the intersection of West Avenue A and 90th Street West
APNs: 3262-006-002 and 3262-006-003
Lancaster and Antelope Acres, Los Angeles County, California 93536
Terracon Project No. 60197493

Dear Mr. Pugh:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Phase I Environmental Site Assessment (ESA) report for the above-referenced site. This assessment was performed in accordance with our Master Service Agreement dated September 18, 2017, Terracon Proposal No. P60197493 and Task Order 53 dated February 21, 2020.

We appreciate the opportunity to be of service to you on this project. In addition to Phase I services, our professionals provide geotechnical, environmental, construction materials, and facilities services on a wide variety of projects locally, regionally and nationally. For more detailed information on all of Terracon's services please visit our website at www.terracon.com. If there are any questions regarding this report or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,
Terracon Consultants, Inc.

A handwritten signature in black ink, appearing to read 'Jennifer S. Van'.

Jennifer S. Van
Group Environmental Manager

A handwritten signature in black ink, appearing to read 'Islam (Sami) R. Noaman'.

Islam (Sami) R. Noaman, E.I.T.
Environmental Department Manager

A handwritten signature in blue ink, appearing to read 'Fabio M. Minervini'.

Fabio M. Minervini, P.G.
California Licensed Geologist No. 7861

Attachments

Terracon Consultants Inc. 1421 Edinger Avenue, Suite C Tustin, California 92780-6287

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Environmental

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TABLE OF CONTENTS

	Page No.
EXECUTIVE SUMMARY	i
Findings and Opinions	i
Significant Data Gaps	ii
Conclusions.....	iii
Recommendations	iii
1.0 INTRODUCTION.....	1
1.1 Site Description	1
1.2 Scope of Services	1
1.3 Standard of Care.....	2
1.4 Additional Scope Limitations, ASTM Deviations and Data Gaps	2
1.5 Reliance	3
1.6 Client Provided Information.....	3
2.0 PHYSICAL SETTING	4
3.0 HISTORICAL USE INFORMATION	5
3.1 Historical Topographic Maps, Aerial Photographs, Sanborn Maps	5
3.2 Historical City Directories	6
3.3 Site Ownership.....	7
3.4 Title Search	7
3.5 Environmental Liens and Activity and Use Limitations	7
3.6 Interviews Regarding Current and Historical Site Uses.....	7
3.7 Prior Report Review	8
4.0 RECORDS REVIEW	8
4.1 Federal and State/Tribal Databases	9
4.2 Local Agency Inquiries.....	11
4.3 Local Area Knowledge	11
5.0 SITE RECONNAISSANCE	12
5.1 General Site Information	12
5.2 Overview of Current Site Occupants.....	12
5.3 Overview of Current Site Operations	12
5.4 Site Observations.....	12
6.0 ADJOINING PROPERTY RECONNAISSANCE	15
7.0 ADDITIONAL SERVICES.....	15
8.0 DECLARATION	16

TABLE OF CONTENTS (continued)

APPENDICES

APPENDIX A	Exhibit 1 - Topographic Map, Exhibit 2 - Site Diagram
APPENDIX B	Site Photographs
APPENDIX C	Historical Documentation and User Questionnaire
APPENDIX D	Environmental Database Information
APPENDIX E	Credentials
APPENDIX F	Description of Terms and Acronyms

EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was performed in accordance with our Master Service Agreement dated September 18, 2017, Terracon Proposal No. P60197493 and Task Order 53 dated February 21, 2020 and was conducted consistent with the procedures included in ASTM E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The ESA was conducted under the supervision or responsible charge of Jennifer S. Van, Environmental Professional. Meg Haile performed the site reconnaissance on April 7, 2020.

Findings and Opinions

A summary of findings is provided below. 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.

Site Description and Use

The site is located southwest of the intersection of West Avenue A and 90th Street West in Lancaster and Antelope Acres California (Los Angeles County Assessor Parcel Numbers (APNs): 3262-006-002 and 3262-006-003). The site consists of two contiguous plots of land totaling 148.27 acres of fallow agricultural land. At the time of reconnaissance, the site was observed to be unoccupied.

Historical Information

Based on review of historical information, the site consisted of undeveloped land from as early as 1915 through the late 1910s. In the late 1920s, agricultural land was observed on the site. In the mid-1960s, an apparent well can be observed on the southeastern portion of the site, along with continued agricultural land use and remained relatively unchanged through 2016.

The site has been utilized as agricultural land from the mid-1910s, through the mid-2000s. The agricultural practice of crop production often includes the use of pesticides and/or herbicides. The historical agricultural activities on the site may have included the use of pesticides and herbicides. Indications of pesticide and/or herbicide misuse or vegetative stress on the site or surrounding properties was not identified. Therefore, the agricultural use of the site does not appear to represent a Recognized Environmental Condition (REC) to the site.

Based on review of historical information, the surrounding properties consisted of undeveloped land, agricultural land, residences, and/or various agricultural-related structures, from as early as 1915 through the mid-1990s. In the mid-1990s, the land to the west is observed to be cleared land through the present.

Phase I Environmental Site Assessment

Estrella Solar ■ Lancaster & Antelope Acres, California

April 17, 2020, Revised April 12, 2021 ■ Terracon Project No. 60197493



Records Review

Selected federal and state environmental regulatory databases as well as responses from state and local regulatory agencies were reviewed. The site was not identified in the regulatory databases; however, the site area was erroneously mapped as the Ritter & Godde Ranch, which is listed in the Historical Underground Storage Tanks (HIST UST) database. To further verify this information, Terracon inquired about the listing with the property owners; Mark and Dana Ritter, who also owned the Ritter & Godde Ranch. According to the site owners the listed USTs were not located on the site or the southwestern-adjointing area. They indicated that these USTs were installed at the main ranch off of 140th Street in Rosemond, California, located approximately five miles west of the site and in a topographic up-gradient position relative to the site. A review of the on-line SWRCB GeoTracker database was performed and no permitted USTs on-site or adjoining as well as no Leaking Underground Storage Tanks (LUST) cleanup cases were identified on site or adjoining facilities. Therefore, the listing appears to be associated with the main ranch located off 140th Street West, and this listing was erroneously mapped by EDR on the site. Based on the on-site observations, information provided by the current land owners, and information reviewed at SWRCB GeoTracker database, the Ritter & Godde Ranch does not constitute as a REC to the site.

Three wells were identified on site in the Physical Setting Source Map provided by EDR. Depth to groundwater was not reported. The two wells were identified during the site reconnaissance. The third well is located on the southeast portion of the site and was not observed during the site reconnaissance.

The remaining facilities listed in the database report do not appear to represent RECs to the site at this time, based upon regulatory status, apparent topographic gradient, and/or distance from the site.

Site Reconnaissance

During the site reconnaissance, Terracon observed a total of two wells and associated pump, and one 55-gallon drum. RECs were not identified with the above-mentioned features.

Adjoining Properties

The property to the north consisted of West Avenue A followed by residential property (9240, 9201, and 9156 West Avenue A) to the northeast and fallow agricultural land to the northwest. The property to the east consisted of 90th Street West followed by fallow agricultural land. The property to the south consisted of West Avenue A-8 followed by fallow agricultural land. The property to the west consisted of 95th Street West followed by fallow agricultural land to the northwest and a residential/agricultural facility to the southwest (51201 90th Street West). RECs were not identified during the adjoining property reconnaissance.

Significant Data Gaps

Significant data gaps were not identified.

Phase I Environmental Site Assessment

Estrella Solar ■ Lancaster & Antelope Acres, California

April 17, 2020, Revised April 12, 2021 ■ Terracon Project No. 60197493



Conclusions

We have performed a Phase I ESA consistent with the procedures included in ASTM Practice E1527-13 of Estrella Solar in Lancaster, Los Angeles County, California (County of Los Angeles APNs: 3262-006-002, and 3262-006-003. RECs or Controlled RECs (CREC) were not identified in connection with the site.

Recommendations

Based on the scope of services, limitations, and conclusions of this assessment, Terracon recommends the following additional actions.

- Terracon observed a single 55-gallon drum located on the eastern portion of the site, which was observed to be unlabeled at the site reconnaissance, the drum needs to be properly disposed of utilizing a certified hazardous waste transporter.
- Terracon recommends protection of the on-site water wells in place during construction activities and if these wells are to be abandoned, local and state requirements should be followed.

1.0 INTRODUCTION

1.1 Site Description

Site Name	Estrella Solar
Site Location/Address	Southwest of the intersection of West Avenue A and 90 th Street West, Lancaster and Antelope Acres, Los Angeles County, California 93536 Accessor Parcel Numbers (APNs): 3262-006-002, and 3262-006-003
Land Area	Approximately 148.27 Acres
Site Improvements	None
Anticipated Future Site Use	Photovoltaic Solar Utility
Purpose of the ESA	Conditional Use Permit for development and operation of photovoltaic solar utility plant

The location of the site is depicted on Exhibit 1 of Appendix A, which was reproduced from a portion of the USGS 7.5-minute series topographic map. The site and adjoining properties are depicted on the Site Diagram, which is included as Exhibit 2 of Appendix A. Acronyms and terms used in this report are described in Appendix F.

1.2 Scope of Services

This Phase I ESA was performed in accordance with our Master Service Agreement dated September 18, 2017, Terracon Proposal No. P60197493 and Task Order 53 dated February 21, 2020, and was conducted consistent with the procedures included in ASTM E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of this ESA was to assist the client in developing information to identify RECs in connection with the site as reflected by the scope of this report. This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, interviews, including local government inquiries, as applicable, and a visual noninvasive reconnaissance of the site and adjoining properties. Limitations, ASTM deviations, and significant data gaps (if identified) are noted in the applicable sections of the report.

ASTM E1527-13 contains a new definition of "migrate/migration," which refers to "the movement of hazardous substances or petroleum products in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface." By including this explicit reference to migration in ASTM E1527-13, the Standard clarifies that the potential for vapor migration should be addressed as part of a Phase I ESA. This Phase I ESA has considered vapor migration in evaluation of RECs associated with the site.

1.3 Standard of Care

This ESA was performed in accordance with generally accepted practices of this profession, undertaken in similar studies at the same time and in the same geographical area. We have endeavored to meet this standard of care, but may be limited by conditions encountered during performance, a client-driven scope of work, or inability to review information not received by the report date. 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.

Phase I ESAs, such as the one performed at this site, 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 site 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 site or otherwise uses the report for any other purpose. These risks may be further evaluated – but not eliminated – through additional research or assessment. We will, upon request, advise you of additional research or assessment options that may be available and associated costs.

1.4 Additional Scope Limitations, ASTM Deviations and Data Gaps

Based upon the agreed-on scope of services, 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. Credentials of the company (Statement of Qualifications) have not been included in this report but are available upon request. Pertinent documents are referred to in the text of this report, and a separate reference section has not been included. Reasonable attempts were made to obtain information within the scope and time constraints set forth by the client; 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:

- At the issuance of this report, a response has not been received from the Kern County Environmental Health department. Based on a review of the historical information and the regulatory database, the absence of this response does not represent a data gap to the site.

Phase I Environmental Site Assessment

Estrella Solar ■ Lancaster & Antelope Acres, California

April 17, 2020, Revised April 12, 2021 ■ Terracon Project No. 60197493



An evaluation of the significance of limitations and missing information with respect to our findings has been conducted, and where appropriate, significant data gaps are identified and discussed in the text of the report. However, it should be recognized that an evaluation of significant data gaps is based on the information available at the time of report issuance, and an evaluation of information received after the report issuance date may result in an alteration of our conclusions, recommendations, or opinions. We have no obligation to provide information obtained or discovered by us after the issuance date of the report, or to perform any additional services, regardless of whether the information would affect any conclusions, recommendations, or opinions in the report. This disclaimer specifically applies to any information that has not been provided by the client.

This report represents our service to you 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 site'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 site renovation or development). Further, these services are not to be construed as legal interpretation or advice.

1.5 Reliance

This ESA report is prepared for the exclusive use and reliance of Sustainable Power Group, LLC (sPower). Use or reliance by any other party is prohibited without the written authorization of Sustainable Power Group, LLC (sPower) and Terracon Consultants, Inc. (Terracon).

Reliance on the ESA by the client and all authorized parties will be subject to the terms, conditions and limitations stated in the proposal, ESA report, and Terracon's Agreement. The limitation of liability defined in the Agreement is the aggregate limit of Terracon's liability to the client and all relying parties.

Continued viability of this report is subject to ASTM E1527-13 Sections 4.6 and 4.8. 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 E1527-13.

1.6 Client Provided Information

Prior to the site visit, Dallas Pugh, client's representative, was asked to provide the following user questionnaire information as described in ASTM E1527-13 Section 6.

Phase I Environmental Site Assessment

Estrella Solar ■ Lancaster & Antelope Acres, California
 April 17, 2020, Revised April 12, 2021 ■ Terracon Project No. 60197493



Client Questionnaire Responses

Client Questionnaire Item	Client Did Not Respond	Client's Response	
		Yes	No
Specialized Knowledge or Experience that is material to a REC in connection with the site.			X
Actual Knowledge of Environmental Liens or Activity Use Limitations (AULs) that may encumber the site.			X
Actual Knowledge of a Lower Purchase Price because contamination is known or believed to be present at the site.			X
Commonly Known or Reasonably Ascertainable Information that is material to a REC in connection with the site.			X
Obvious Indicators of Contamination at the site.			X

Terracon's consideration of the client provided information did not identify RECs. A copy of the questionnaire is included in Appendix C.

2.0 PHYSICAL SETTING

Physical Setting Information		Source
Topography		
Site Elevation	Approximately 2,445 feet above sea level	USGS Topographic Map, Little Buttes Quadrangle, California Dated 2012 (Appendix A)
Topographic Gradient	Towards the east	
Closest Surface Water	Unnamed reservoir located to the adjoining southwest	
Soil Characteristics		
Soil Type	Rosamond Fine Sandy Loam	Los Angeles County, California Antelope Valley Area, Dated September 17, 2019
Description	The soil is well drained with 0 to 2 percent slopes. Parent material consists of alluvium derived from granite. Typical soil profile consists of 0 to 8 inches: fine sandy loam; 8 to 60 inches: stratified loam to silty clay loam.	
Geology/Hydrogeology		
Formation	Q, Quaternary	

Physical Setting Information		Source
Description	Alluvium, lake, playa, and terrace deposits; unconsolidated and semi-consolidated.	California Department of Conservation, Geologic Map of California, Dated 2010
Estimated Depth to First Occurrence of Groundwater	Approximate depth to groundwater in a water well located on the southeastern portion of the site is measured at 213.2 below grade surface (bgs) on March 16, 2021.	USGS 344848118172301008N013W05E001S Hydrologic Unit Code 1809020606 Located on Southeastern portion of the site 03/16/2021
*Hydrogeologic Gradient	Not known - may be inferred to be parallel to topographic gradient (primarily to the east).	

* The groundwater flow direction and the depth to shallow, unconfined groundwater, if present, would likely vary depending upon seasonal variations in rainfall and other hydrogeological features. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

3.0 HISTORICAL USE INFORMATION

Terracon reviewed the following historical sources to develop a history of the previous uses of the site and surrounding area, in order to help identify RECs associated with past uses. Copies of selected historical documents are included in Appendix C.

3.1 Historical Topographic Maps, Aerial Photographs, Sanborn Maps

Readily available historical USGS topographic maps, selected historical aerial photographs (at approximately 10 to 15 year intervals) were reviewed to evaluate land development and obtain information concerning the history of development on and near the site. Reviewed historical topographic maps and aerial photographs are summarized below.

Historical fire insurance maps produced by the Sanborn Map Company were requested from EDR to evaluate past uses and relevant characteristics of the site and surrounding properties. Based upon inquiries to the above-listed Sanborn provider, Sanborn maps were not available for the site.

- Topographic maps:
 - Elizabeth Lake, California published in **1915** (1":96,000')
 - Elizabeth Lake, California published in **1917** (1":125,000')
 - Willow Springs, California published in **1943** (1":62,500')
 - Willow Springs, California published in **1947** (1":50,000')
 - Little Buttes, California published in **1965, 1974, and 2012** (1":24,000')
- Aerial photographs:
 - FAIR, **1928** 1"=500'
 - USDA, **1940, 1948, 1954, 1973, 1987, 1989, and 2002** 1"=500"

Phase I Environmental Site Assessment

Estrella Solar ■ Lancaster & Antelope Acres, California

April 17, 2020, Revised April 12, 2021 ■ Terracon Project No. 60197493



- Teledyne, 1968 1"=500"
- USGS/DOQQ, 1995 1"=500"
- USDA/NAIP, 2006, 2009, 2012, and 2016 1"=500"

Historical Maps and Aerial Photographs

Direction	Description
Site	Undeveloped land (1915-1917); agricultural land (1928-1954); agricultural land and an apparent well can be observed on the southeastern portion of the site (1965-2016).
North	Road abutting the site followed by undeveloped land (1915-1917); agricultural land with apparent residencies to the northeast (1928-1940); agricultural land (1948-1954); apparent agricultural facilities developed (1968-1987); additional apparent agricultural facilities developed (1989-2016).
East	Road abutting the site followed by undeveloped land (1915-1940); agricultural land (1948-1954); cleared land (1968-1973); agricultural land (1987-2016).
South	Undeveloped land (1915-1917); unpaved road abutting the site followed by undeveloped land (1928-1940); agricultural land (1948-2016).
West	Apparent residence/agricultural facility to the southwest of the site followed by undeveloped land (1915-1917); agricultural land abutting the site to the southwest followed by un-paved road and undeveloped land (1928); reservoir to the southwest and agricultural land to the adjoining west (1940-1954); additional buildings develop on residential/agricultural facility to the southwest (1968-1973); additional buildings develop on residential/agricultural facility to the southwest followed by cleared land to the west (1987); agricultural land to the west, cleared land to the southwest (1989); cleared land, barn developed to the southwest (1995-2006); apparent residence developed to the southwest of the intersection of the un-paved roads and a structure developed to the southwest of the site (2009-2016).

The site has been utilized as agricultural land from the mid-1910s through the mid-2000s. The agricultural practice of crop production often includes the use of pesticides and/or herbicides. The historical agricultural activities on the site may have included the use of pesticides and herbicides. Indications of pesticide and/or herbicide misuse or vegetative stress on the site or surrounding properties was not identified. Therefore, the agricultural use of the site does not appear to represent a Recognized Environmental Condition (REC) to the site.

3.2 Historical City Directories

The B&G City Directory, Haines Criss-Cross Directory, and EDR Digital Archive city directories used in this study were made available through City Directory Source (selected years reviewed: 1971-2017) and were reviewed at approximate five-year intervals, if readily available. Street listings not available prior to 1971. The current street address for the site was not identified for the site.

Historical City Directories

Direction	Description
Site	No Listings (1971-2017)
North	9159 West Avenue A – No Listings (1971-2000); Unknown (2005); Residential Listings (2010-2017)
	9201 West Avenue A – No Listings (1971-2000); JG Ranch, Residential Listings (2005); Residential (2010-2014); No Listings (2017)
	9241 West Avenue A – No Listings (1971-2000); Residential Listing (2005-2017)
East	No Listings (1971-2017)
South	No Listings (1971-2017)
West	9502 West Avenue A – No Listings (1971-2017)
	51201 90th Street West – Residential Listing (1971-1976); Unknown (1982-1995); Residential Listing (2000-2017)

3.3 Site Ownership

According to Preliminary Title Reports (PTRs) provided by the client, and EDR the current owner is Mark S. Ritter.

3.4 Title Search

At the direction of the client, a title search was not included as part of the scope of services. Unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

3.5 Environmental Liens and Activity and Use Limitations

The EDR regulatory database report 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 site 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. Environmental lien and activity and use limitation records recorded against the site were not provided by the client. At the direction of the client, 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 client is evaluating this information outside the scope of this report.

3.6 Interviews Regarding Current and Historical Site Uses

The following individual was interviewed regarding the current and historical use of the site.

Phase I Environmental Site Assessment

Estrella Solar ■ Lancaster & Antelope Acres, California
April 17, 2020, Revised April 12, 2021 ■ Terracon Project No. 60197493



Interviewee

Interviewer	Name / Phone #	Title	Date/Time
Meg Haile	Mr. Dallas Pugh / (562) 348-1119	Permitting Manager	March 24, 2020 / Via e-mail

Terracon interviewed personal Mr. Dallas Pugh on March 24, 2020. Mr. Pugh indicated that to his knowledge:

- The site consists of open vacant land, mostly fallow agriculture with no businesses/operations.
- Possible SCE transmission lines and underground pipeline are known to be present in the site area.
- He is not aware of previous Phase I ESA or other environmental reports performed on the site.
- Mr. Pugh is not aware of industrial uses of the site and/or the adjoining properties.
- Mr. Pugh stated it is possible heavy equipment used for agricultural purposes was stored on the site and petroleum hydrocarbons could be present related to the equipment.
- Mr. Pugh indicated possible pesticides could have been used on the site.
- Mr. Pugh believes the landowners are currently in litigation with LA County due to illegal use of groundwater for agricultural uses.

3.7 Prior Report Review

Terracon requested the client provide any previous environmental reports they are aware of for the site. Previous reports were not provided by the client to Terracon for review.

4.0 RECORDS REVIEW

Regulatory database information was provided by EDR, a contract information services company. The purpose of the records review was to identify RECs in connection with the site. 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. The scope herein did not include confirmation of facilities listed as "unmappable" by regulatory databases.

In some of the following subsections, the words up-gradient, cross-gradient and down-gradient refer to the topographic gradient in relation to the site. As stated previously, the groundwater flow direction and the depth to shallow groundwater, if present, would likely vary depending upon seasonal variations in rainfall and other hydrogeological features. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

4.1 Federal and State/Tribal Databases

Listed below are the facility listings identified on federal and state/tribal databases within the ASTM-required search distances from the approximate site boundaries. Database definition, descriptions, and the database search report are included in Appendix D.

Federal Databases

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

State/Tribal Databases

Database	Description	Distance (miles)	Listings
CALSITES	CalSites Database	1.0	0
CALSITES (AWP)	Active Annual Workplan Sites	1.0	0
LUST	Leaking Underground Storage Tanks	0.5	0
SWF/LF	Solid Waste Facilities/Landfills	0.5	0
UST	Underground Storage Tank Facilities	Site and adjoining properties	0
VCP	Voluntary Cleanup Program	0.5	0
HIST UST	Historical Underground Storage Tanks	0.25	2

In addition to the above ASTM-required listings, Terracon reviewed other federal, state, local, and proprietary databases provided by the database firm. A list of the additional reviewed databases is included in the regulatory database report included in Appendix D.

Phase I Environmental Site Assessment

Estrella Solar ■ Lancaster & Antelope Acres, California

April 17, 2020, Revised April 12, 2021 ■ Terracon Project No. 60197493



The following table summarizes the site-specific information provided by the database and/or gathered by this office for identified facilities. Facilities are listed in order of proximity to the site. Additional discussion for selected facilities follows the summary table.

Listed Facilities

Facility Name and Location	Estimated Distance / Direction/Gradient	Database Listings	Is a REC, CREC, or HREC to the Site
Ritter & Godde Ranch 90 th Street West & Avenue A	5 Miles / West / Up-gradient	HIST UST	No, discussed below

90th Street West & Avenue A

This listing is mapped within the site area; however, the listing is identified to be located in Rosemond, Kern County, California, approximately 5 miles west of the site. Ritter & Godde Ranch, is listed in HIST UST database. Based on a review of the listing, a June 1988 Hazardous Substance Storage Container Information for Kern County from the State Water Resources Control Board describes four underground storage tanks. A 550-gallon, unlined, non-vaulted, single-walled, and composed on carbon steel underground storage tank. The tank was reported to be filled with regular motor vehicle fuel. No violations were reported. A 1,000-gallon, unlined, non-vaulted, single-walled, and composed on carbon steel underground storage tank. The tank was reported to be filled with unleaded motor vehicle fuel. No violations were reported. A 2,000-gallon, unlined, non-vaulted, single-walled, and composed on carbon steel underground storage tank. The tank was reported to be filled with regular motor vehicle fuel. No violations were reported. A 10,000-gallon underground storage tank with regular motor vehicle fuel. No violations were reported.

According to information provided by Mark and Dana Ritter, the current land owners, who also owned the Ritter & Godde Ranch, the listed USTs were not located on the site or the southwestern-adjointing area, rather they were installed at the main ranch off of 140th Street, located approximately five miles west of the site and in a topographic up-gradient position relative to the site. A review of the on-line SWRCB GeoTracker database was performed and no permitted USTs on-site or adjoining as well as no Leaking Underground Storage Tanks (LUST) cleanup cases were identified on site or adjoining facilities. Therefore, the listing appears to be associated with the main ranch located off 140th Street West, and this listing was erroneously mapped by EDR on the site. Based on the on-site observations, information provided by the current land owners, and information reviewed at SWRCB GeoTracker database, the Ritter & Godde Ranch does not constitute as a REC to the site.

The remaining facilities listed in the database report do not appear to represent RECs to the site at this time, based upon regulatory status, apparent topographic gradient, and/or distance from the site.

Unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the site. The report listed one facility in the

Phase I Environmental Site Assessment

Estrella Solar ■ Lancaster & Antelope Acres, California

April 17, 2020, Revised April 12, 2021 ■ Terracon Project No. 60197493



unmapped section. Determining the location of unmapped facilities is beyond the scope of this assessment; however, none of these facilities were identified as the site or adjacent properties. These facilities are listed in the database report in Appendix D.

4.2 Local Agency Inquiries

Agency Contacted/ Contact Method	Response
Los Angeles County of Public Works – Environmental Programs Division / By e-mail info@dpw.lacounty.gov	On March 27, 2020, Terracon received a response stating no records were found for the site.
Department of Toxic Substances Control / By e-mail pubreqact@dtsc.ca.gov	On March 27, 2020, Terracon received a response from Ruth J. Saroian, Regional Records Coordinator, stating no records were found.
Department of Toxic Substances Control – Chatsworth Office / By e-mail ChatsworthFileRoom@dtsc.ca.gov	On March 27, 2020, Terracon received a response from Glenn Castillo, Regional Records Coordinator, stating no records were found.
Lanhotan Regional Water Quality Control Board / By e-mail RB6-Lahontan@waterboards.ca.gov	On April 8, 2020 Terracon searched the online database, but no records were found for the site.
Antelope Valley Air Quality Management District / By e-mail pir@avaqmd.ca.gov	On April 1, 2020, Terracon received a response from Bret Banks, Executive Director, stating no records were found.
LA County Fire Dept / By online form https://lacountyfire.govqa.us/WEBAPP/_rs/(S(c5mri0qorc3ixvik4theonrc))/supporthome.aspx	On March 26, 2020, Terracon received a response stating no records were found.
County Los Angeles Bureau of Sanitation / By E-mail: records_administrator@lacsod.org	On March 27, 2020 Terracon received a response from Rose Romo, Senior typist, stating no records were found.
Kern County Environmental Health / By online submission https://kernpublichealth.com/environmental-health-request-for-public-records/	On April 14, 2020 Terracon received a response from Jorge Peres, Deputy Health Officer, stating no records were found for the site.

4.3 Local Area Knowledge

Based on a review of the California Department of Conservation Division of Oil, Gas & Geothermal Well Finder website (<https://maps.conservation.ca.gov/doggr/wellfinder>), there are no oil or gas production wells located at the site or surrounding areas.

5.0 SITE RECONNAISSANCE

5.1 General Site Information

Information contained in this section is based on a visual reconnaissance conducted while walking through the site and the accessible interior areas of structures, if any, located on the site. The site and adjoining properties are depicted on the Site Diagram, which is included in Exhibit 2 of Appendix A. Photo documentation of the site at the time of the visual reconnaissance is provided in Appendix B. Credentials of the individuals planning and conducting the site visit are included in Appendix E.

General Site Information

Site Reconnaissance	
Field Personnel	Meg Haile
Reconnaissance Date	April 7, 2020
Weather Conditions	Cloudy, 48°F
Site Contact/Title	N/A

5.2 Overview of Current Site Occupants

The site is located southwest of the intersection of West Avenue A and 90th Street West in Lancaster and Antelope Acres California (Los Angeles County Accessor Parcel Numbers (APNs): 3262-006-002 and 3262-006-003).

5.3 Overview of Current Site Operations

The site consists of fallow agricultural land and was unoccupied at the time of the site reconnaissance.

5.4 Site Observations

The following table summarizes site observations and interviews. Affirmative responses (designated by an “X”) are discussed in more detail following the table.

Site Characteristics

Category	Item or Feature	Observed or Identified
Site Operations, Processes, and Equipment	Emergency generators	
	Elevators	
	Air compressors	
	Hydraulic lifts	

Phase I Environmental Site Assessment

Estrella Solar ■ Lancaster & Antelope Acres, California

April 17, 2020, Revised April 12, 2021 ■ Terracon Project No. 60197493



Category	Item or Feature	Observed or Identified
	Dry cleaning	
	Photo processing	
	Ventilation hoods and/or incinerators	
	Waste treatment systems and/or water treatment systems	
	Heating and/or cooling systems	
	Paint booths	
	Sub-grade mechanic pits	
	Wash-down areas or carwashes	
	Pesticide/herbicide production or storage	
	Printing operations	
	Metal finishing (e.g., electroplating, chrome plating, galvanizing, etc.)	
	Salvage operations	
	Oil, gas or mineral production	
	Other processes or equipment	
Aboveground Chemical or Waste Storage	Aboveground storage tanks	
	Drums, barrels and/or containers ≥ 5 gallons	X
	MSDS or SDS	
Underground Chemical or Waste Storage, Drainage or Collection Systems	Underground storage tanks or ancillary UST equipment	
	Sumps, cisterns, French drains, catch basins and/or dry wells	
	Grease traps	
	Septic tanks and/or leach fields	
	Oil/water separators, clarifiers, sand traps, triple traps, interceptors	
	Pipeline markers	
	Interior floor drains	
Electrical Transformers/ PCBs	Transformers and/or capacitors	
	Other equipment	

Phase I Environmental Site Assessment

Estrella Solar ■ Lancaster & Antelope Acres, California

April 17, 2020, Revised April 12, 2021 ■ Terracon Project No. 60197493



Category	Item or Feature	Observed or Identified
Releases or Potential Releases	Stressed vegetation	
	Stained soil	
	Stained pavement or similar surface	
	Leachate and/or waste seeps	
	Trash, debris and/or other waste materials	
	Dumping or disposal areas	
	Construction/demolition debris and/or dumped fill dirt	
	Surface water discoloration, odor, sheen, and/or free floating product	
	Strong, pungent or noxious odors	
	Exterior pipe discharges and/or other effluent discharges	
Other Notable Site Features	Surface water bodies	
	Quarries or pits	
	Wastewater lagoons	
	Wells	X

Aboveground Chemical or Waste Storage

Drums, barrels and/or containers ≥ 5 gallons

During the site reconnaissance, Terracon observed one 55-gallon drum on the eastern portion of the site. The drum was not labeled and Terracon could not identify its content. Leakage, spills or releases from the drum were not observed. Based on site observations, the 55-gallon drum does not represent a REC to the site.

Underground Chemical or Waste Storage, Drainage or Collection System

Sumps, cisterns, catch basins and/or dry wells

During the site reconnaissance, Terracon observed two wells and an associated pump located on the southern portion of the site. The wells observed were greater than 6 feet in height and Terracon was unable to observe the interior of the wells. The concrete wells appear to have been associated with former agricultural operations. Three wells were identified on site in the Physical Setting Source Map provided by EDR. Depth to groundwater was not reported. The two wells were identified during the site reconnaissance. The third well is located on the southeast portion of the site and was not observed during the site reconnaissance.

6.0 ADJOINING PROPERTY RECONNAISSANCE

Visual observations of adjoining properties (from site boundaries) are summarized below.

Adjoining Properties

Direction	Description
North	The property to the north consist of West Avenue A followed by residential properties (9240, 9201, and 9156 West Avenue A) to the northeast and fallow agricultural land to the northwest.
East	The property to the east consisted of 90 th Street West followed by fallow agricultural land.
South	The property to the south consisted of West Avenue A-8 followed by fallow agricultural land.
West	The property to the west consisted of 95 th Street West followed by fallow agricultural land to the west of the northern portion of the site and a residential/agricultural facility to the southwest (51201 90 th Street West).

RECs were not observed with the adjoining properties.

7.0 ADDITIONAL SERVICES

Per the agreed scope of services specified in the proposal, additional services (e.g. sampling, lead in based paint sampling, wetlands evaluation, lead in drinking water testing, radon testing, vapor encroachment screening, etc.) were not conducted.

Phase I Environmental Site Assessment

Estrella Solar ■ Lancaster & Antelope Acres, California

April 17, 2020, Revised April 12, 2021 ■ Terracon Project No. 60197493



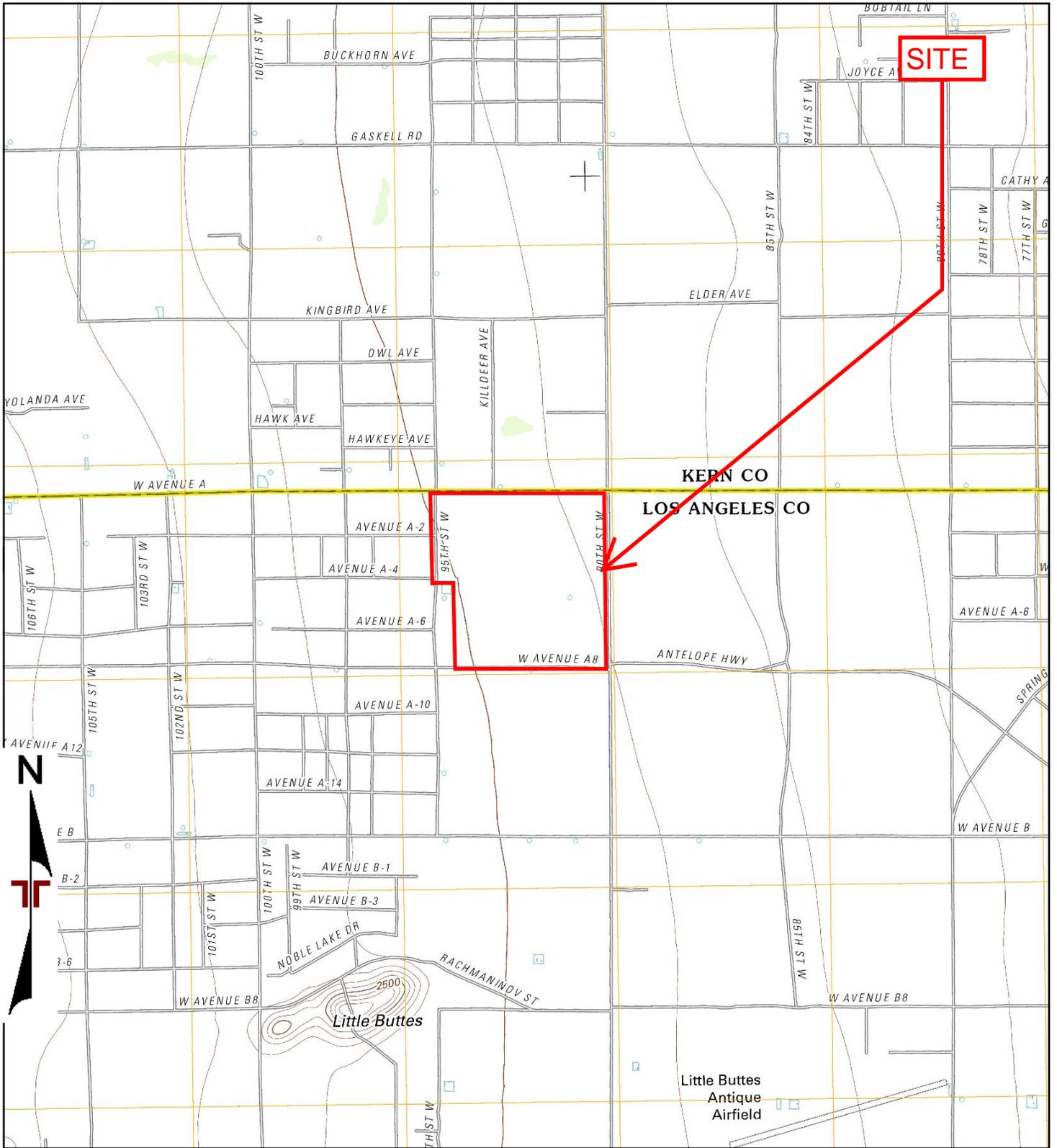
8.0 DECLARATION

I, Jennifer S. Van, 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 site. I have developed and performed the All Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

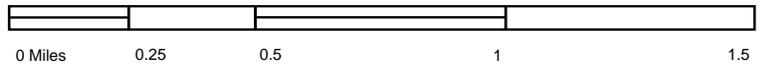
A handwritten signature in black ink, appearing to read "J. Van", is positioned above a horizontal line. The signature is fluid and cursive.

Jennifer S. Van
Environmental Group Manager

APPENDIX A
EXHIBIT 1 – TOPOGRAPHIC MAP
EXHIBIT 2 – SITE DIAGRAM



TP, Little Buttes, 2012, 7.5-minute



Project Manager:	Project No.
JSV	60197493
Drawn by:	Scale:
MH	As Shown
Checked by:	File Name:
JSV	N/A
Approved by:	Date:
IRN	2012

Terracon
 1421 Edinger Avenue, Suite C
 Tustin, California 92780

TOPOGRAPHIC MAP

ESTRELLA SOLAR
 SOUTHWEST OF THE INTERSECTION OF
 90TH STREET WEST & WEST AVENUE A
 LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536

EXHIBIT

1

LEGEND

- APPROXIMATE SITE BOUNDARY
- X FIBER OPTIC CABLE MARKERS
- W WELL
- P PUMP ASSOCIATED WITH WELL
- V IRRIGATION VENT PIPES
- D 55-GALLON DRUM

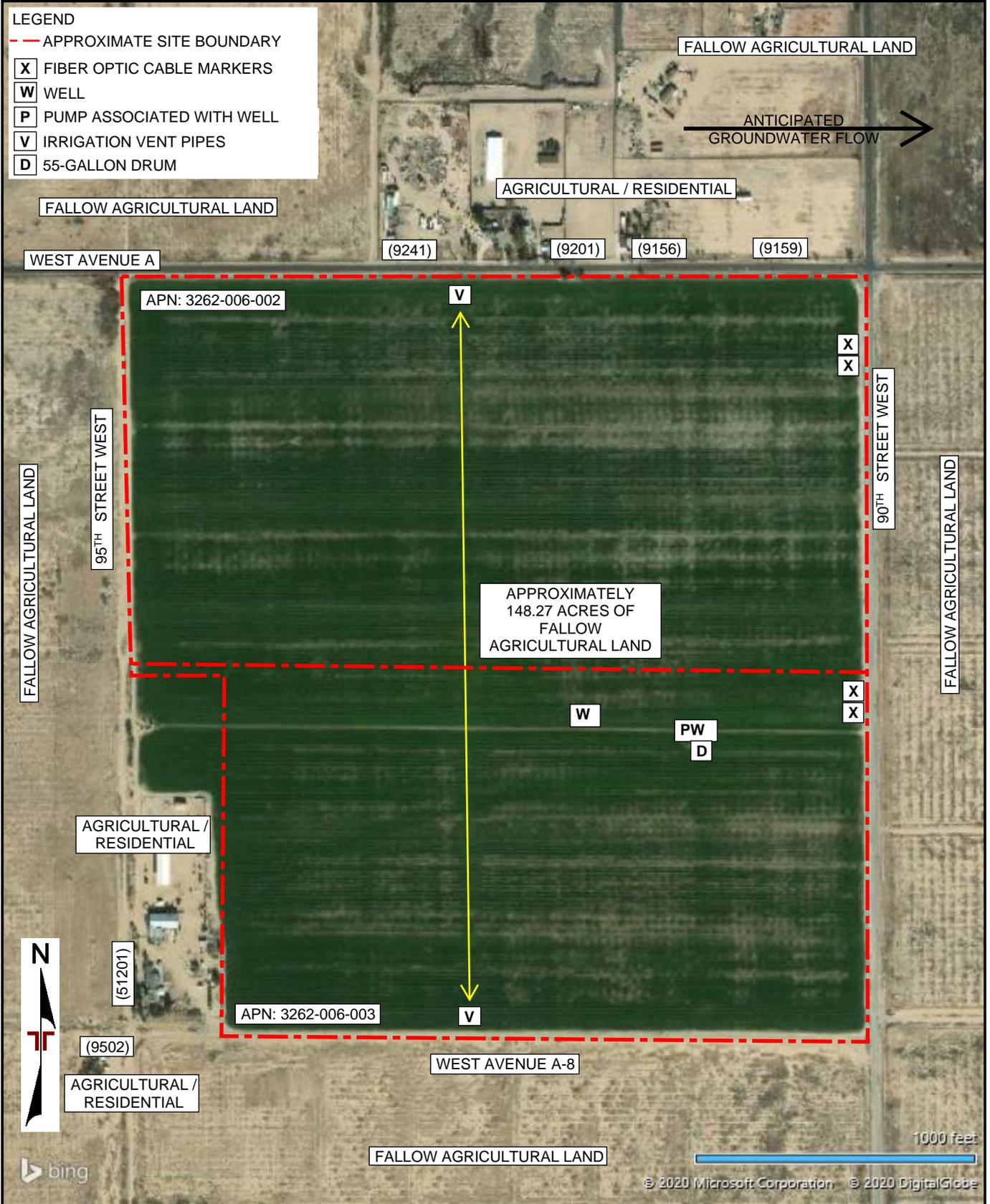


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

AERIAL PHOTOGRAPHY PROVIDED BY MICROSOFT BING MAPS

Project Manager:	JSV
Drawn by:	MH
Checked by:	JSV
Approved by:	IRN
Project No.:	60197493
Scale:	AS SHOWN
File Name:	IRN
Date:	APRIL 2020

Terracon
 1421 Edinger Avenue, Suite C
 Tustin, California 92780-6287

SITE DIAGRAM

ESTRELLA SOLAR
 SOUTHWEST OF THE INTERSECTION OF
 90TH STREET WEST & WEST AVENUE A
 LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536

EXHIBIT
2

APPENDIX B
SITE PHOTOGRAPHS



Photo #1 View of the northeastern portion of the site looking south.



Photo #2 View of the southeastern portion of the site looking west.



Photo #3 View of the southwestern portion of the site looking north.



Photo #4 View of the northwestern corner of the site looking south.



Photo #5 View of the central portion of the site looking north.



Photo #6 View of the central portion of the site looking south.



Photo #7 View of the central portion of the site looking east.



Photo #8 View of the central portion of the site looking west.



Photo #9 Typical view of cisterns located along the central portion of the site from west to east.



Photo #10 Typical view of vent pipes associated with irrigation system along central portion of the site from north to south.



Photo #11 View of pump associated with the well located on eastern portion of the site.



Photo #12 View of 55-gallon drum located on eastern portion of the site.



Photo #13 Typical view of fiber optic cable markers located along the eastern boundary of the site.



Photo #14 View of adjoining property to the east.



Photo #15 View of adjoining property to the south.



Photo #16 View of residence/agricultural (51201 90th Street West) facility located to the adjoining southwest.



Photo #17 View of adjoining property to the northwest.



Photo #18 View of adjoining agricultural / residential property to the north (unaddressed)



Photo #19 View of adjoining agricultural / residential property to the north (9241 West Avenue A)



Photo #20 View of adjoining agricultural / residential property to the northeast (9201 West Avenue A)



Photo #21 View of adjoining agricultural / residential property to the northeast (9156 West Avenue A)



Photo #22 View of adjoining property to the northeast.

APPENDIX C
HISTORICAL DOCUMENTATION AND USER QUESTIONNAIRE

Client/User Required Questionnaire



Person Completing Questionnaire	Name: Dallas Pugh Company: sPower	Phone: (562) 348-1119 Email: dallas.pugh@spower.com
Site Name	Estrella Solar (148.27 Acres of Land)	
Site Address	Lancaster and Antelope Acres, Los Angeles County, California 93536	
Point of Contact for Access	Name: Dallas Pugh Company: sPower	Phone: (562) 348-1119 Email: dallas.pugh@spower.com
Access Restrictions or Special Site Requirements?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, please explain)	
Confidentiality Requirements?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (If yes, please explain)	Outlined in MSA
Current Site Owner	Name: See Title Reports Company: See Title Reports	Phone: -- Email: --
Current Site Operator	Name: See Title Reports Company: See Title Reports	Phone: -- Email: --
Reasons for ESA (e.g., financing, acquisition, lease, etc.)	Conditional Use Permit for development and operation of a photovoltaic solar utility plant	
Anticipated Future Site Use	Photovoltaic Solar Utility	
Relevant Documents?	Please provide Terracon copies of prior Phase I or II ESAs, Asbestos Surveys, Environmental Permits or Audit documents, Underground Storage Tank documents, Geotechnical Investigations, Site Surveys, Diagrams or Maps, or other relevant reports or documents.	

ASTM User Questionnaire

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the user must respond to the following questions. Failure to provide this information to the environmental professional may result in significant data gaps, which may limit our ability to identify recognized environmental conditions resulting in a determination that "all appropriate inquiry" is not complete. This form represents a type of interview and as such, the user has an obligation to answer all questions in good faith, to the extent of their actual knowledge.

- 1) Did a search of recorded land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the property under federal, tribal, state, or local law (40 CFR 312.25)?
 No Yes (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)
- 2) Did a search of recorded 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 property and/or have been filed or recorded against the property under federal, tribal, state, or local law (40 CFR 312.26)?
 No Yes (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)
- 3) Do you 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 or former occupants of the site or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business (40 CFR 312-28)?
 No Yes (If yes, explain below)
- 4) Do you have actual knowledge of a lower purchase price because contamination is known or believed to be present at the site (40 CFR 312.29)?
 No Yes Not applicable (If yes or Not applicable, explain below)
- 5) Are you 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 (40 CFR 312.30)?
 No Yes (If yes, explain below)
- 6) Based on your 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 (40 CFR 312.31)?
 No Yes (If yes, explain below)

Comments or explanations:

None

Please return this form with the signed authorization to proceed.

Proposal No. P60197493

Terracon Consultants Inc.
Owner Questionnaire for Phase I ESAs (ASTM 1527-13)

Site Name: Estrella Solar

Site Address: West Avenue A and 90th Street West, Los Angeles County, CA

Owner Name/Title: See provided title reports _____

Date: 03/24/2020 _____

How long have you owned the site?

Unknown

Current and Historical Uses of the Site

- 1. Please provide the names and type of business of current occupants to the best of your knowledge.**

No know businesses, but I believe the site was historically used for cultivation of alfalfa. Duration of agricultural activities is unknown.

- 2. Please provide the names and type of business of historical occupants with approximate dates to the best of your knowledge**

Same

- 3. Has a previous Phase I ESA or other environmental investigation been performed on the property? Please provide a copy of previous studies.**

Unknown - highly unlikely

Potential Environmental Conditions

Conditions	Yes	No
1. Industrial Uses of the site and adjoining properties (Industrial uses including but not limited to gas stations, auto repair or painting, printing, dry cleaners, photo		X

Owner Questionnaire

processing, metal plating, smelting petroleum refining, other chemical manufacturing).		
2. Agricultural Use (crop production, animal feeding)	X	
3. Waste Storage or Disposal (Junkyard, recycling facility, battery storage, landfills, dump, wastewater lagoon)		X
4. Equipment use, Storage or Abandonment (production lines, hydraulic equipment, heavy equipment)	X	
5. Hazardous Materials (greater than 5-gallon containers or 25-lb bags of pesticides, paints, solvents, acids, bases, anti-freeze, other regulated materials. List quantities.)	X	
6. Petroleum Hydrocarbons (greater than 5-gallon containers of gasoline, diesel, lubricating oil, waste oil, fuel oil, heating oil, bunker oil, kerosene, benzene, toluene, ethylbenzene, xylene, aviation or jet fuel)	X	
7. Spills or Releases of Petroleum Hydrocarbons or Hazardous Materials (Stained soil, dead vegetation or any other evidence of a spill)		X
8. PCBs (transformers, hydraulic equipment)		X
9. Surface Water Issues (Pits, ponds, lagoons)		X
10. Groundwater Issues (monitoring or drinking water wells, injection wells or drains without storm/sewer connection)		X
11. Wastewater Issues (floor drains, trenches, sumps, oil/water separators)		X
12. Underground storage tanks (USTs), Above-ground storage tanks (ASTs) (removed or currently present; specify substance stored)		X
13. Asbestos (previous surveys, identified materials, O&M plans)		X
14. Septic Tanks and drain fields (in use or abandoned)		X
15. Utility Corridors (pipelines, easements, right-of-ways)	X	
16. Regulatory Compliance (Stormwater, Spill Prevention Plans, Wastewater discharge permits, other permits)		X
17. Natural Resource Issues (wetlands, critical habitat, threatened or endangered species, historic or cultural resources)		X
18. Legal or Regulatory Actions (Environmental Enforcement, liens, activity and use limitations, covenants, pending lawsuits)	X	

Please explain YES responses in the space below.

- 2) the site was historically cultivated for alfalfa
- 4) possibly heavy equipment used for agriculture
- 5) possibly pesticides used for agriculture
- 6) possible for agricultural heavy equipment
- 15) transmission corridors and possibly underground pipelines
- 18) I believe the landowners are currently in litigation with LA County due to illegal use of groundwater (for agriculture)

NOTE: Some of the "No" answers above should be "Unknown" - some of the conditions above could exist due to historical agricultural operations

Owner Questionnaire

I have completed the above questionnaire to the best of my knowledge.

Signature: *Dallas Pugh*

Date: 3/24/2020

Printed Name: Dallas Pugh

Company: sPower

Estrella Solar 148.27 Acres of Land

Apns 3262-006-002 and 3262-006-003, Antelope Acre

Lancaster, CA 93536

Inquiry Number: 6023724.4

March 26, 2020

EDR Historical Topo Map Report

with QuadMatch™



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

EDR Historical Topo Map Report

03/26/20

Site Name:

Estrella Solar 148.27 Acres of
Apns 3262-006-002 and 3262-
Lancaster, CA 93536
EDR Inquiry # 6023724.4

Client Name:

Terracon
1421 Edinger Avenue
Tustin, CA 92780
Contact: Gabriela Jorquiera



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Terracon 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. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:**Coordinates:**

P.O.#	NA	Latitude:	34.818207 34° 49' 6" North
Project:	60197493	Longitude:	-118.29492 -118° 17' 42" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	381572.13
		UTM Y Meters:	3853647.41
		Elevation:	2444.00' above sea level

Maps Provided:

2012
1974
1965
1947
1943
1917
1915

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Topo Sheet Key

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

2012 Source Sheets



Little Buttes
2012
7.5-minute, 24000

1974 Source Sheets



Little Buttes
1974
7.5-minute, 24000
Aerial Photo Revised 1974

1965 Source Sheets



Little Buttes
1965
7.5-minute, 24000
Aerial Photo Revised 1963

1947 Source Sheets



WILLOW SPRINGS
1947
15-minute, 50000

Topo Sheet Key

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

1943 Source Sheets



Willow Springs
1943
15-minute, 62500
Aerial Photo Revised 1943

1917 Source Sheets

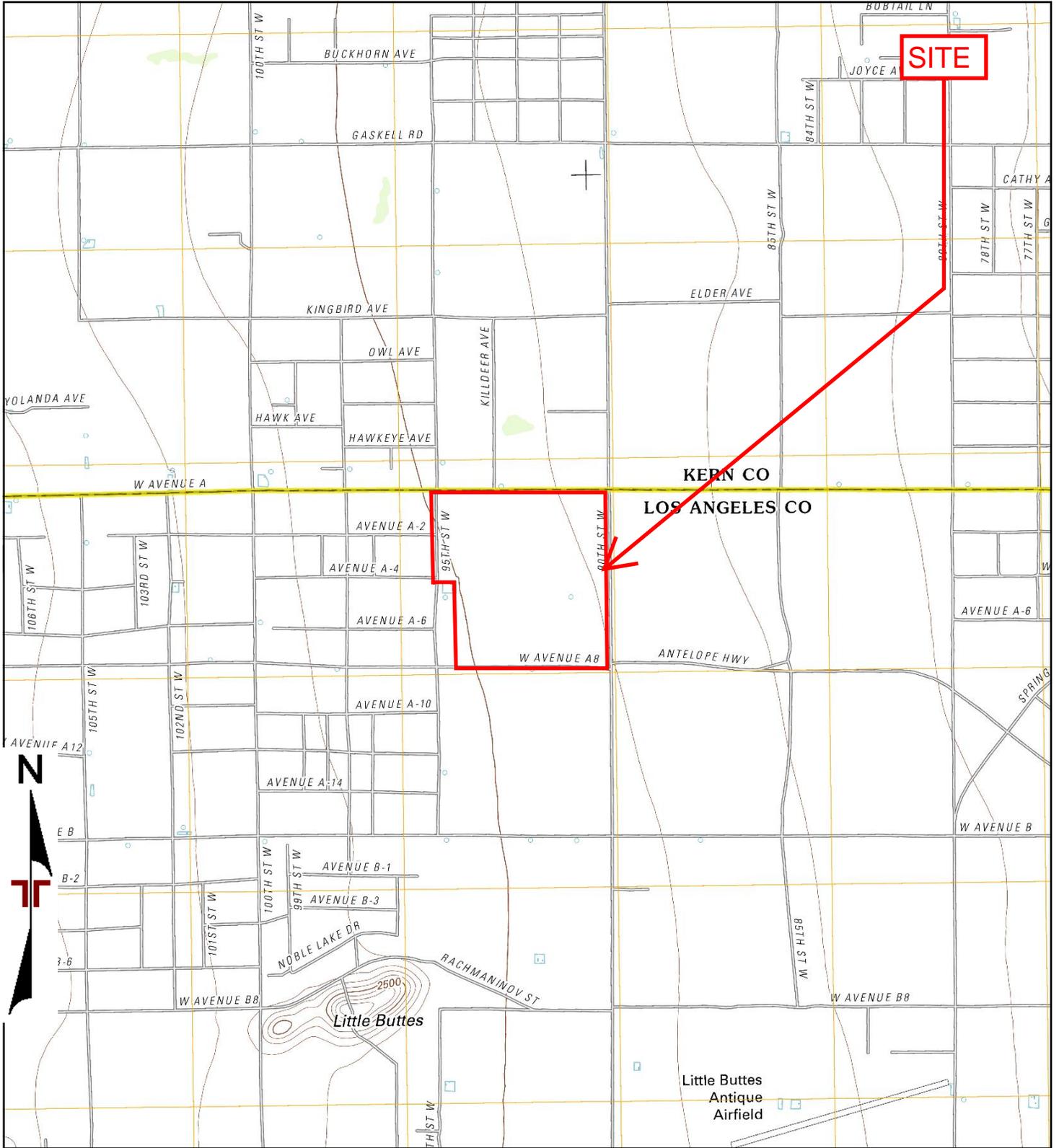


Elizabeth Lake
1917
30-minute, 125000

1915 Source Sheets



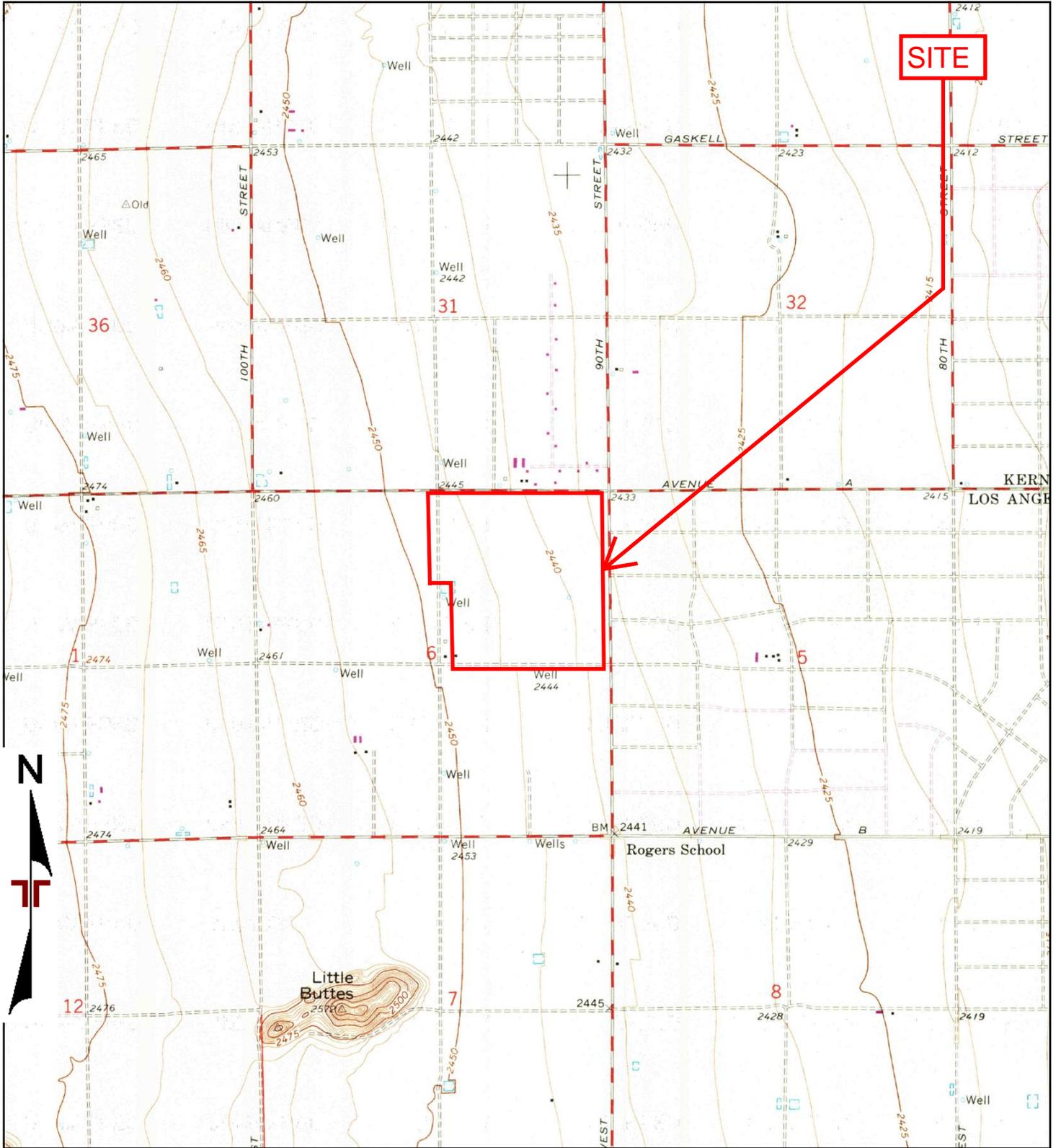
Elizabeth Lake
1915
30-minute, 96000



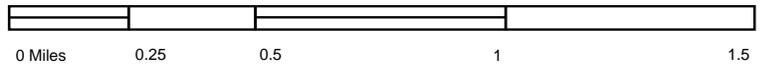
Project Manager:	Project No.
Drawn by:	Scale:
Checked by:	File Name:
Approved by:	Date: 2012



2012 TOPOGRAPHIC MAP	
ESTRELLA SOLAR SOUTHWEST OF THE INTERSECTION OF 90 TH STREET WEST & WEST AVENUE A LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536	



TP, Little Buttes, 1974, 7.5-minute

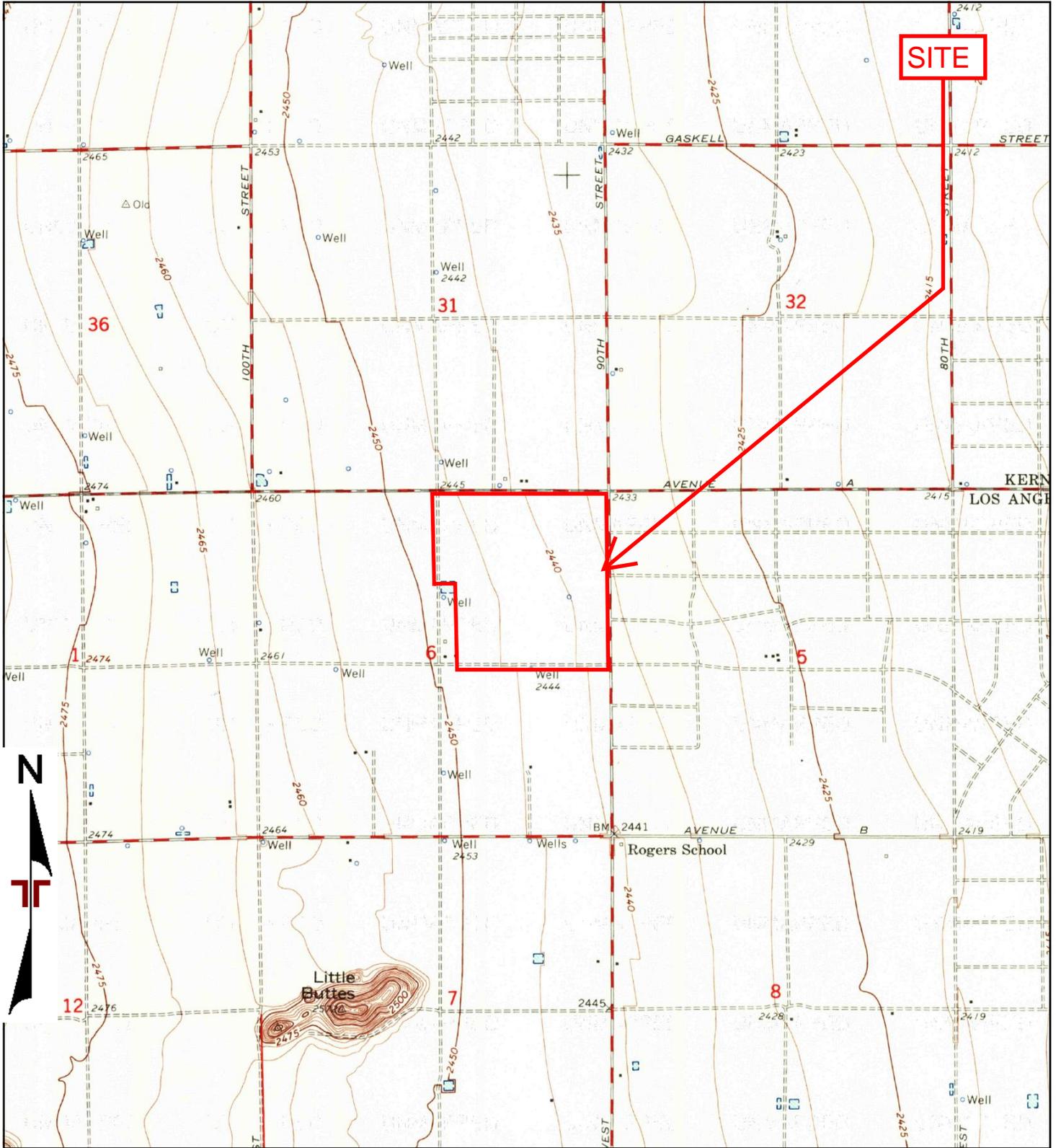


Project Manager:	Project No.
Drawn by:	Scale:
Checked by:	File Name:
Approved by:	Date: 1974

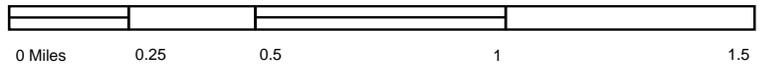


1974 TOPOGRAPHIC MAP

ESTRELLA SOLAR
 SOUTHWEST OF THE INTERSECTION OF
 90TH STREET WEST & WEST AVENUE A
 LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536



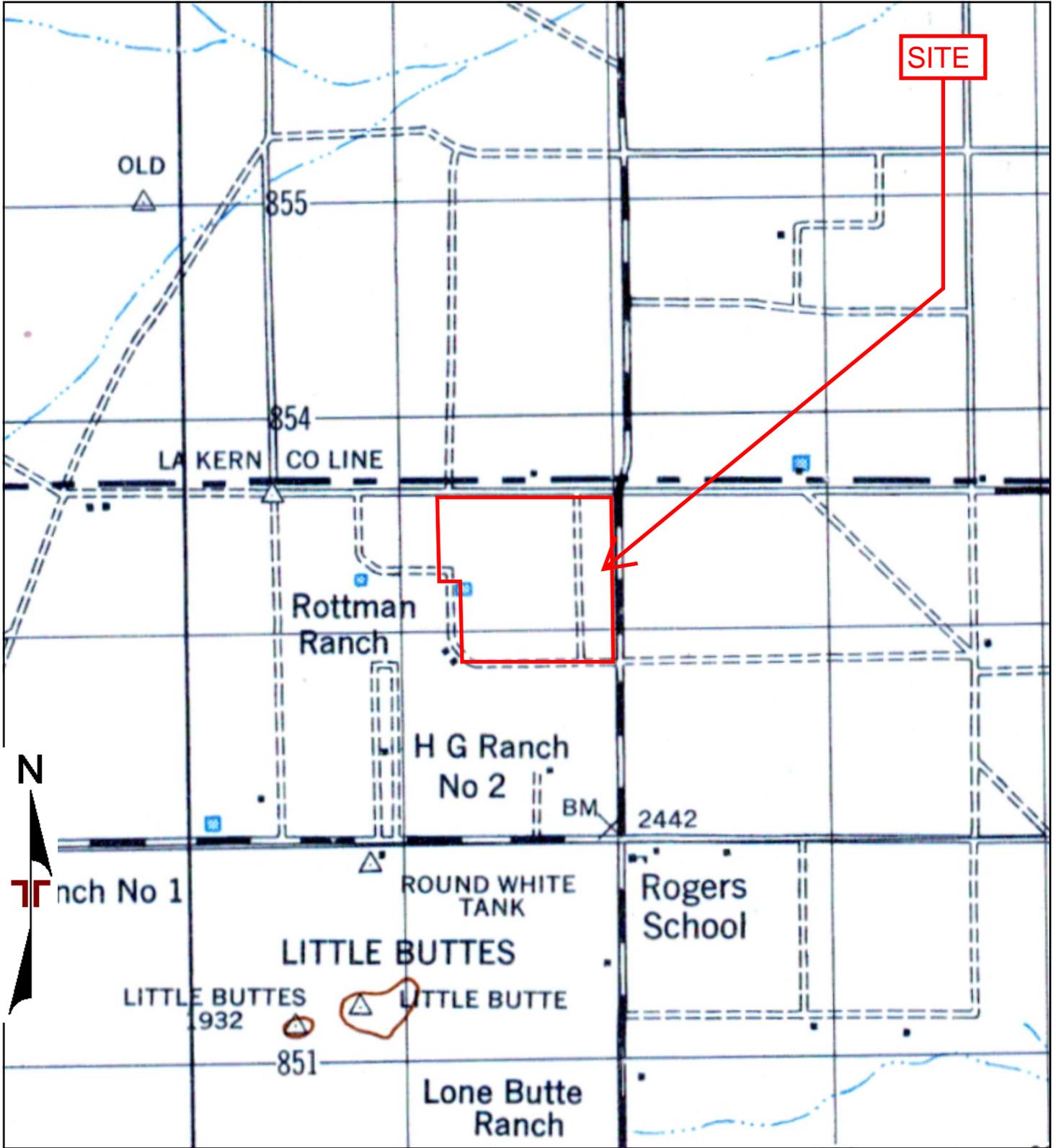
TP, Little Buttes, 1965, 7.5-minute



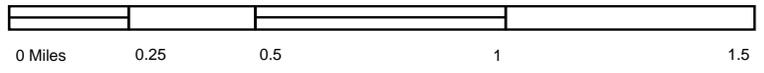
Project Manager:	Project No.
Drawn by:	Scale:
Checked by:	File Name:
Approved by:	Date: 1965



1965 TOPOGRAPHIC MAP ESTRELLA SOLAR SOUTHWEST OF THE INTERSECTION OF 90 TH STREET WEST & WEST AVENUE A LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536	
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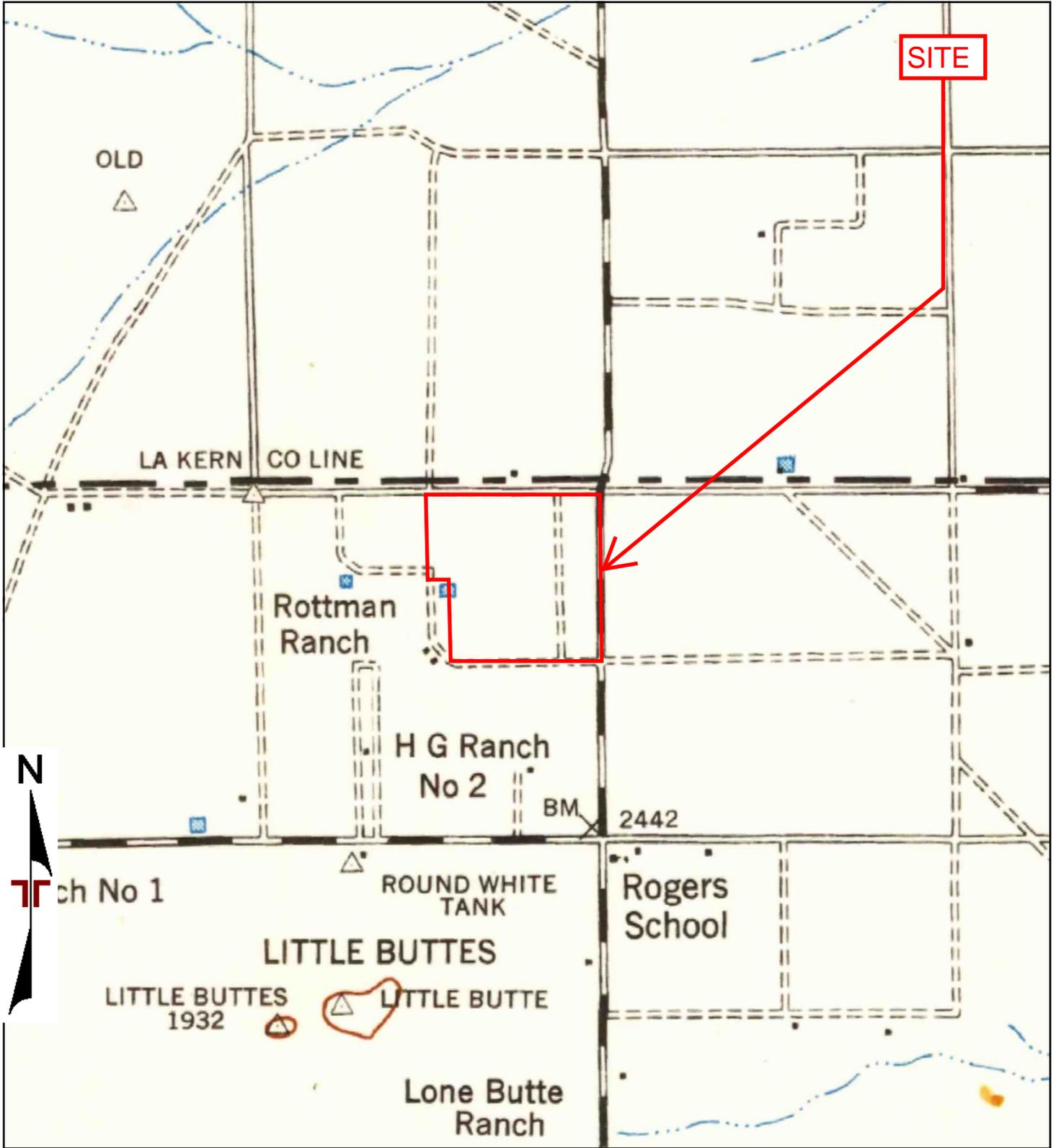
TP, WILLOW SPRINGS, 1947, 15-minute



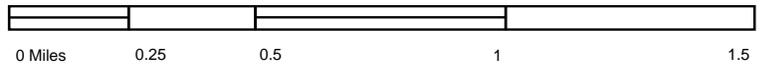
Project Manager:	Project No.
Drawn by:	Scale:
Checked by:	File Name:
Approved by:	Date: 1947



1947 TOPOGRAPHIC MAP	
ESTRELLA SOLAR SOUTHWEST OF THE INTERSECTION OF 90 TH STREET WEST & WEST AVENUE A LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536	



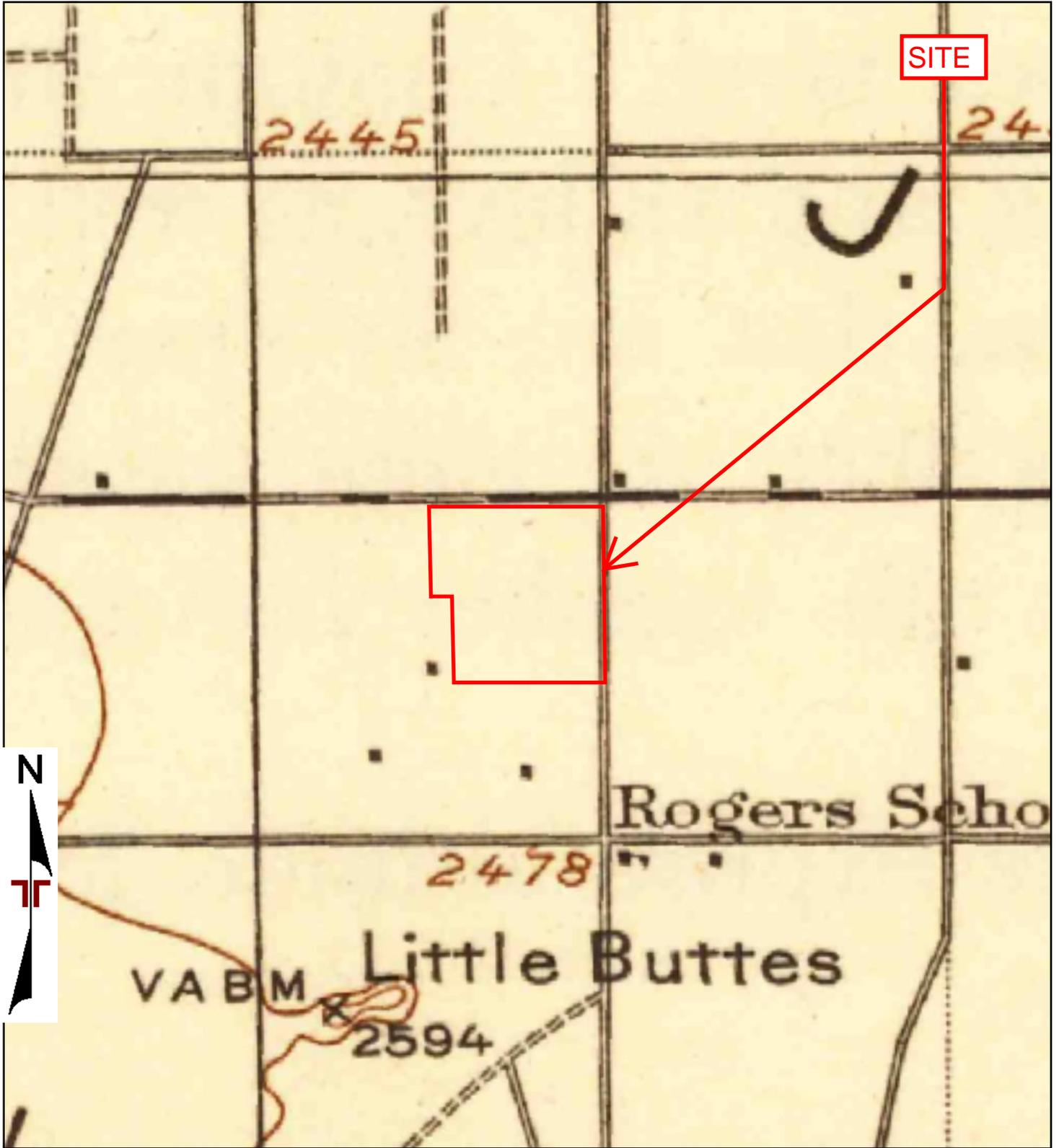
TP, Willow Springs, 1943, 15-minute



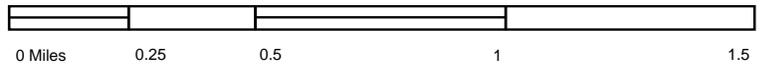
Project Manager:	Project No.
Drawn by:	Scale:
Checked by:	File Name:
Approved by:	Date: 1943

1943 TOPOGRAPHIC MAP

ESTRELLA SOLAR
 SOUTHWEST OF THE INTERSECTION OF
 90TH STREET WEST & WEST AVENUE A
 LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536



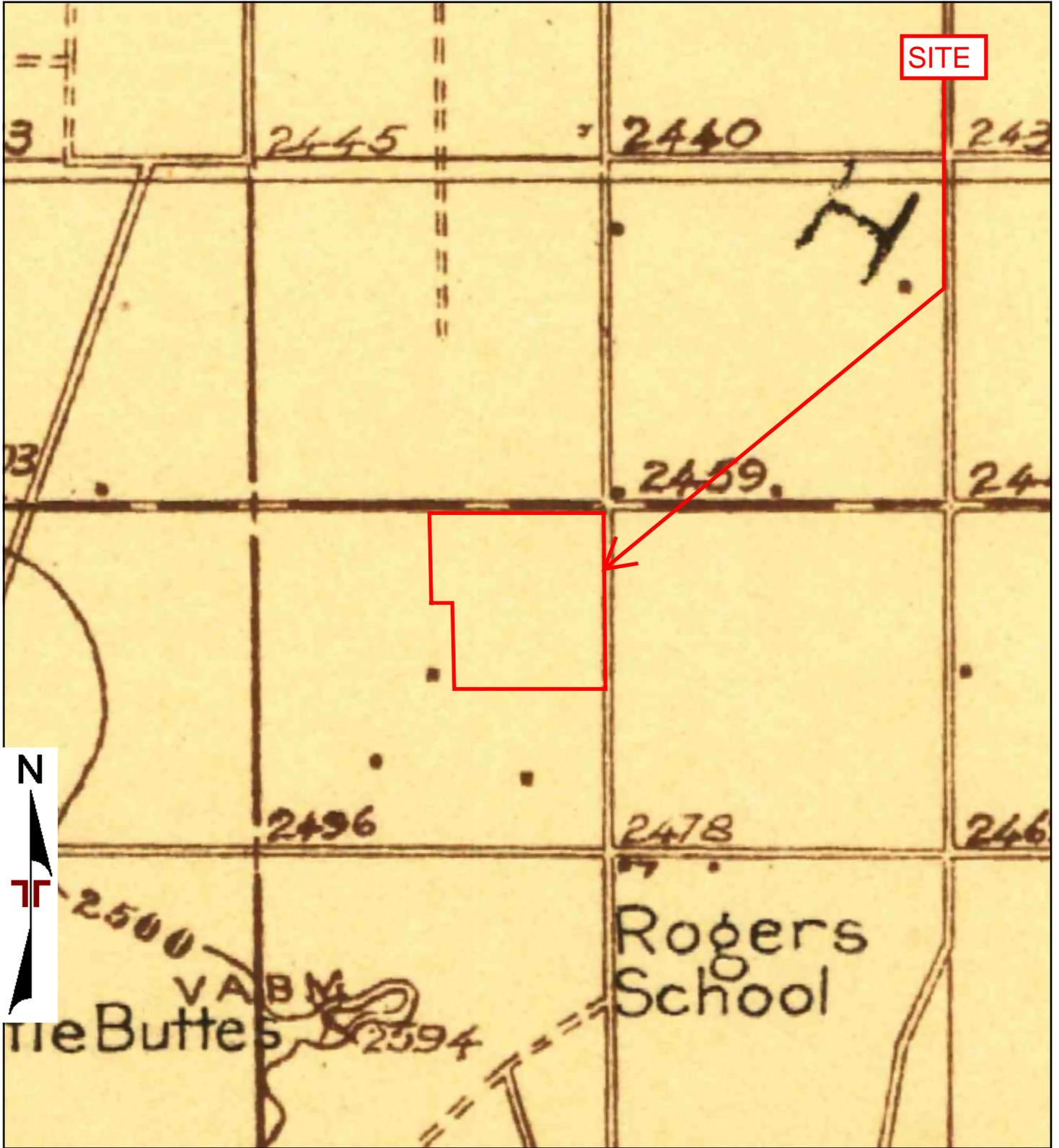
TP, Elizabeth Lake, 1917, 30-minute



Project Manager:	Project No.
Drawn by:	Scale:
Checked by:	File Name:
Approved by:	Date: 1917



1917 TOPOGRAPHIC MAP	
ESTRELLA SOLAR SOUTHWEST OF THE INTERSECTION OF 90 TH STREET WEST & WEST AVENUE A LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536	



TP, Elizabeth Lake, 1915, 30-minute



Project Manager:	Project No.
Drawn by:	Scale:
Checked by:	File Name:
Approved by:	Date: 1915



1915 TOPOGRAPHIC MAP	
ESTRELLA SOLAR SOUTHWEST OF THE INTERSECTION OF 90 TH STREET WEST & WEST AVENUE A LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536	



Estrella Solar 148.27 Acres of Land

Apns 3262-006-002 and 3262-006-003, Antelope Acre

Lancaster, CA 93536

Inquiry Number: 6023724.8

March 26, 2020

The EDR Aerial Photo Decade Package



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

EDR Aerial Photo Decade Package

03/26/20

Site Name:

Estrella Solar 148.27 Acres of
Apns 3262-006-002 and 3262-
Lancaster, CA 93536
EDR Inquiry # 6023724.8

Client Name:

Terracon
1421 Edinger Avenue
Tustin, CA 92780
Contact: Gabriela Jorquiera



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Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2002	1"=500'	Flight Date: June 07, 2002	USDA
1995	1"=500'	Acquisition Date: October 04, 1995	USGS/DOQQ
1990	1"=500'	Flight Date: September 07, 1990	USDA
1989	1"=500'	Flight Date: August 26, 1989	USDA
1987	1"=500'	Flight Date: July 25, 1987	USDA
1973	1"=500'	Flight Date: May 01, 1973	USDA
1968	1"=500'	Flight Date: March 26, 1968	Teledyne
1954	1"=500'	Flight Date: July 06, 1954	USDA
1948	1"=500'	Flight Date: November 20, 1948	USDA
1940	1"=500'	Flight Date: April 30, 1940	USDA
1928	1"=500'	Flight Date: January 01, 1928	FAIR

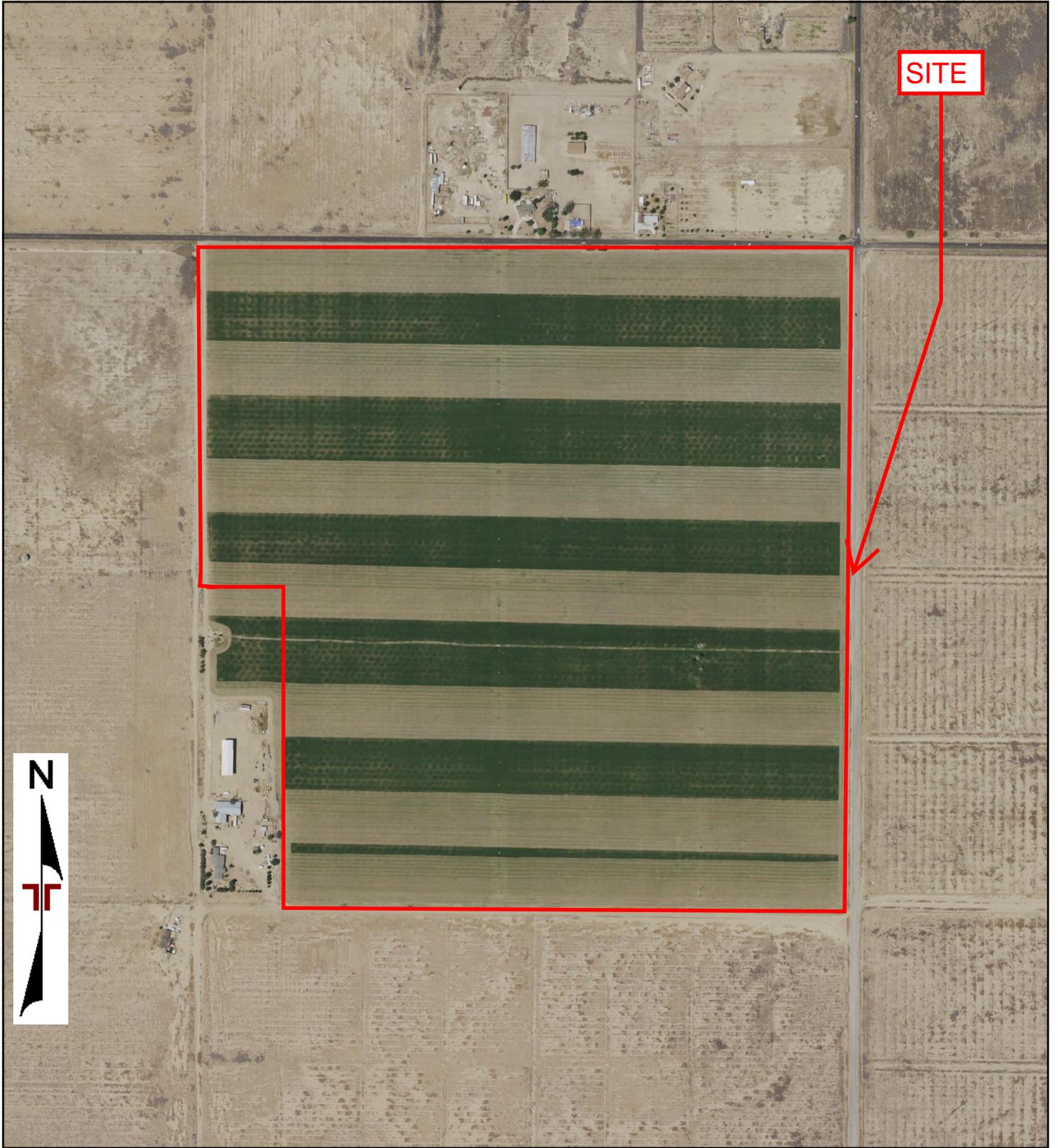
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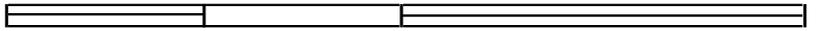
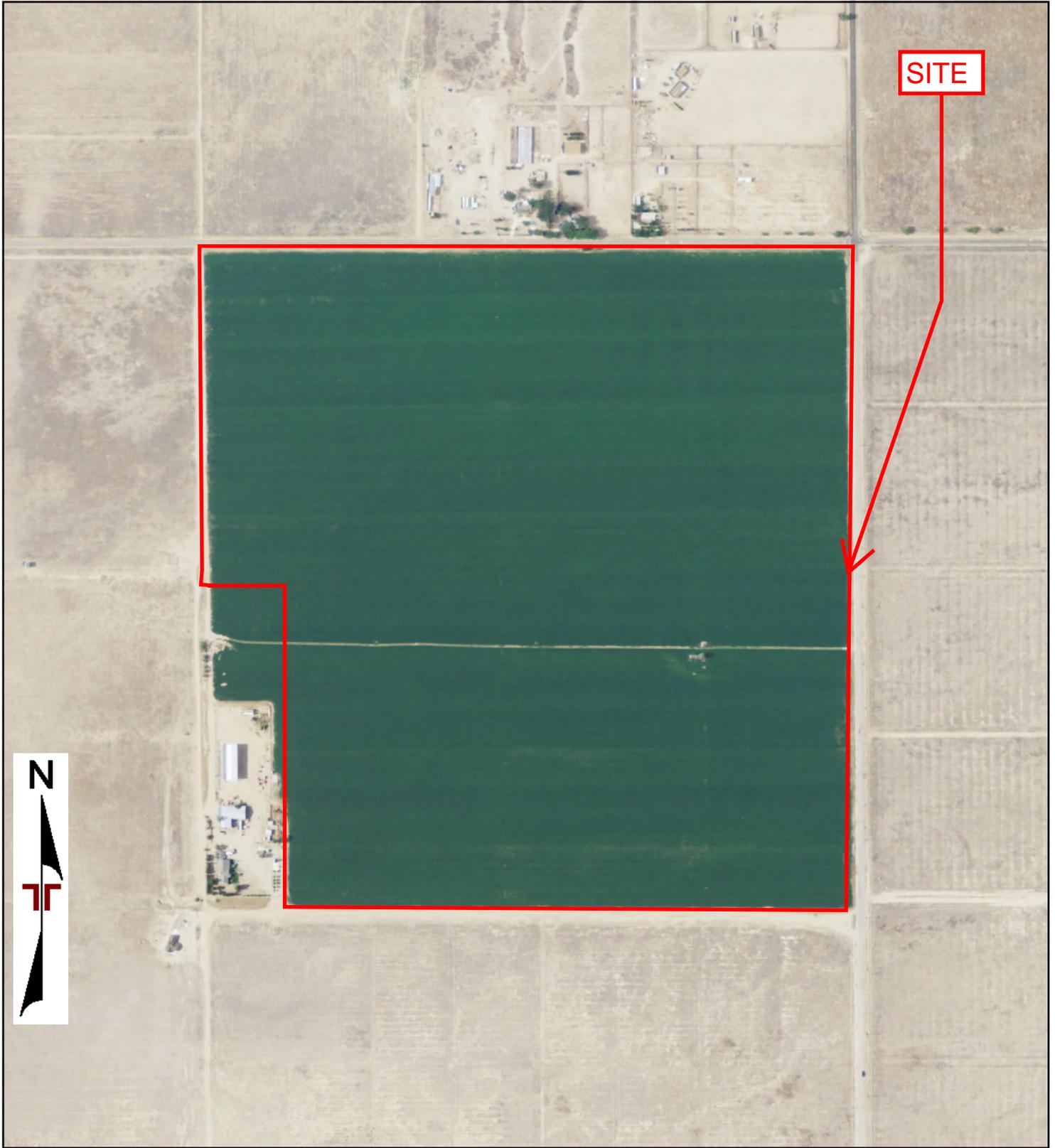
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Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 2016



2016 AERIAL PHOTOGRAPH
ESTRELLA SOLAR
SOUTHWEST OF THE INTERSECTION OF 90 TH STREET WEST & WEST AVENUE A LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536



0 Feet

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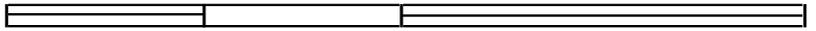
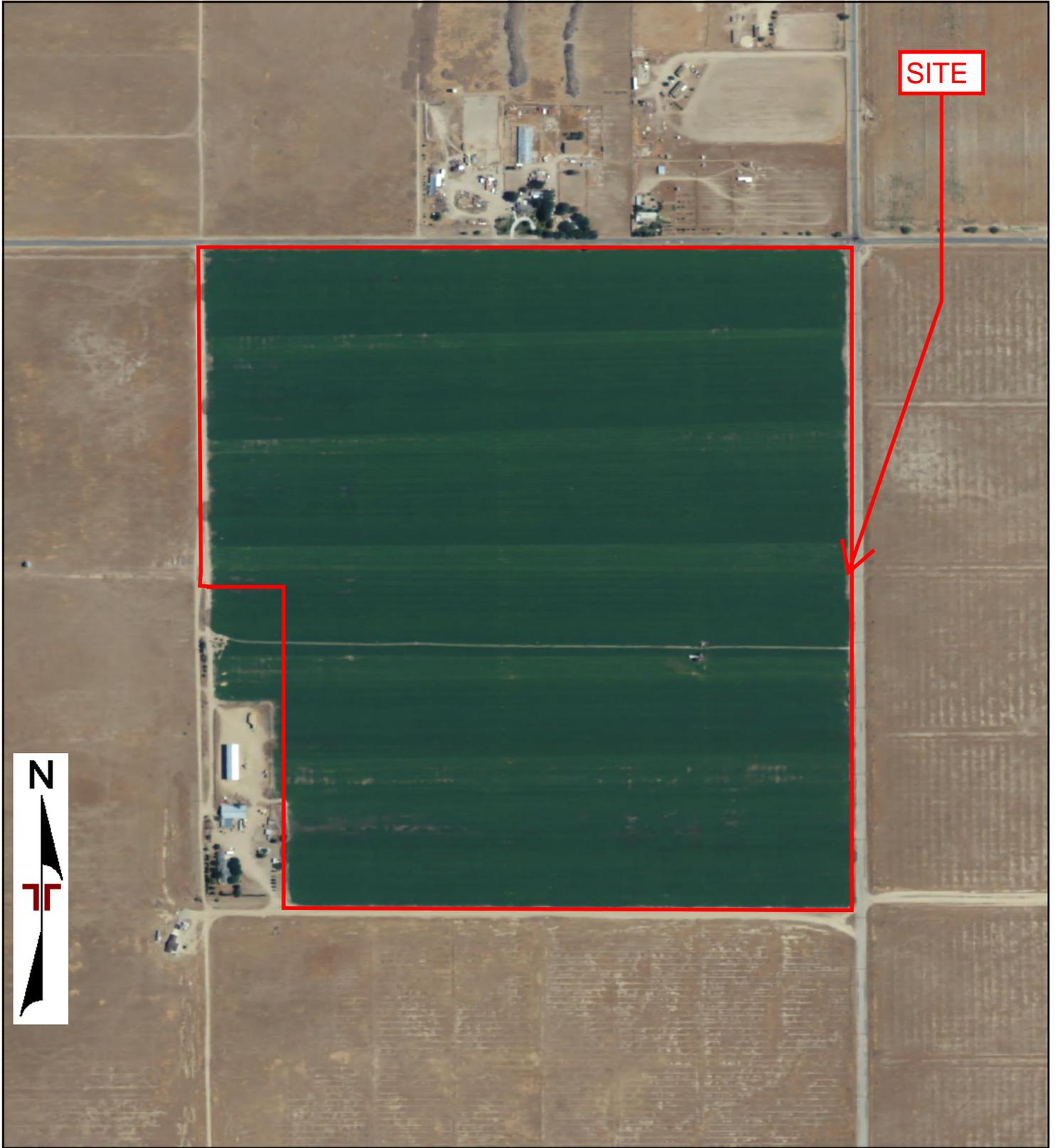
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Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 2012



2012 AERIAL PHOTOGRAPH
ESTRELLA SOLAR
SOUTHWEST OF THE INTERSECTION OF 90 TH STREET WEST & WEST AVENUE A LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536



0 Feet

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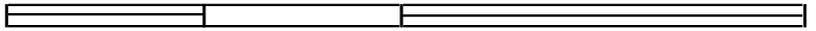
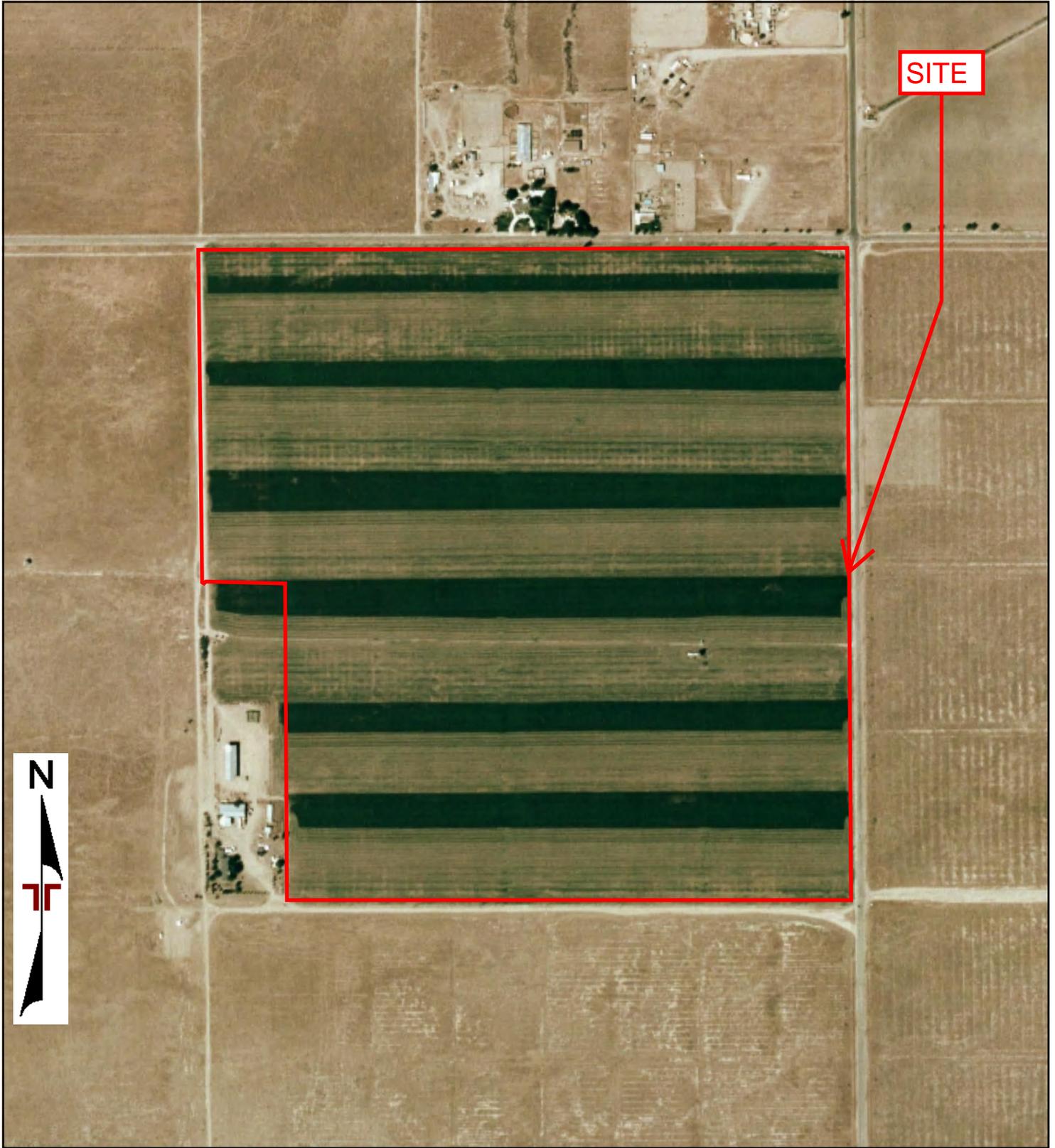
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Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 2009



2009 AERIAL PHOTOGRAPH
ESTRELLA SOLAR SOUTHWEST OF THE INTERSECTION OF 90 TH STREET WEST & WEST AVENUE A LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536



0 Feet

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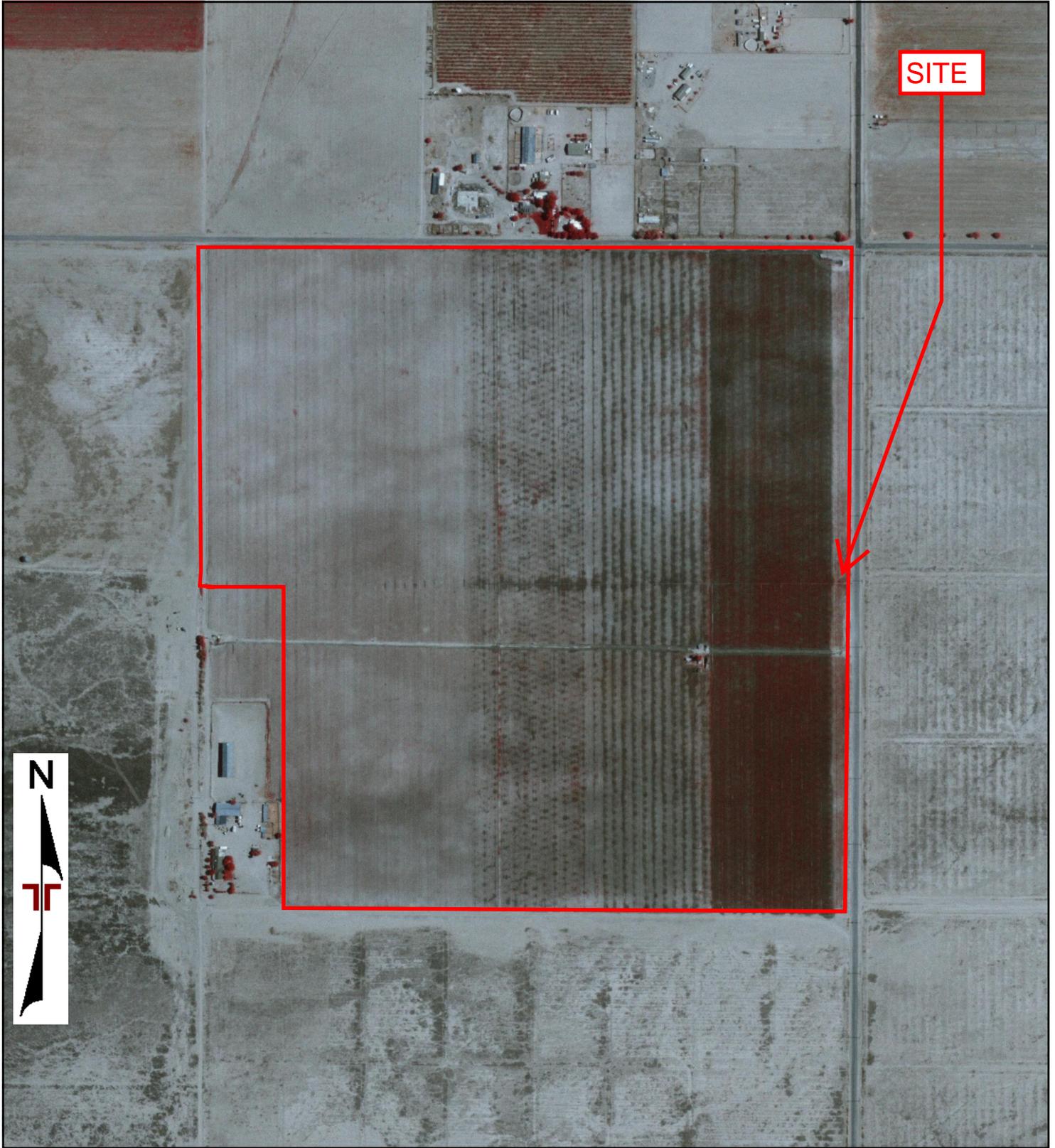
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2000

Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 2006



2006 AERIAL PHOTOGRAPH	
ESTRELLA SOLAR	
SOUTHWEST OF THE INTERSECTION OF 90 TH STREET WEST & WEST AVENUE A LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536	



SITE



0 Feet

500

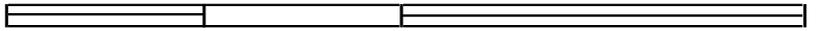
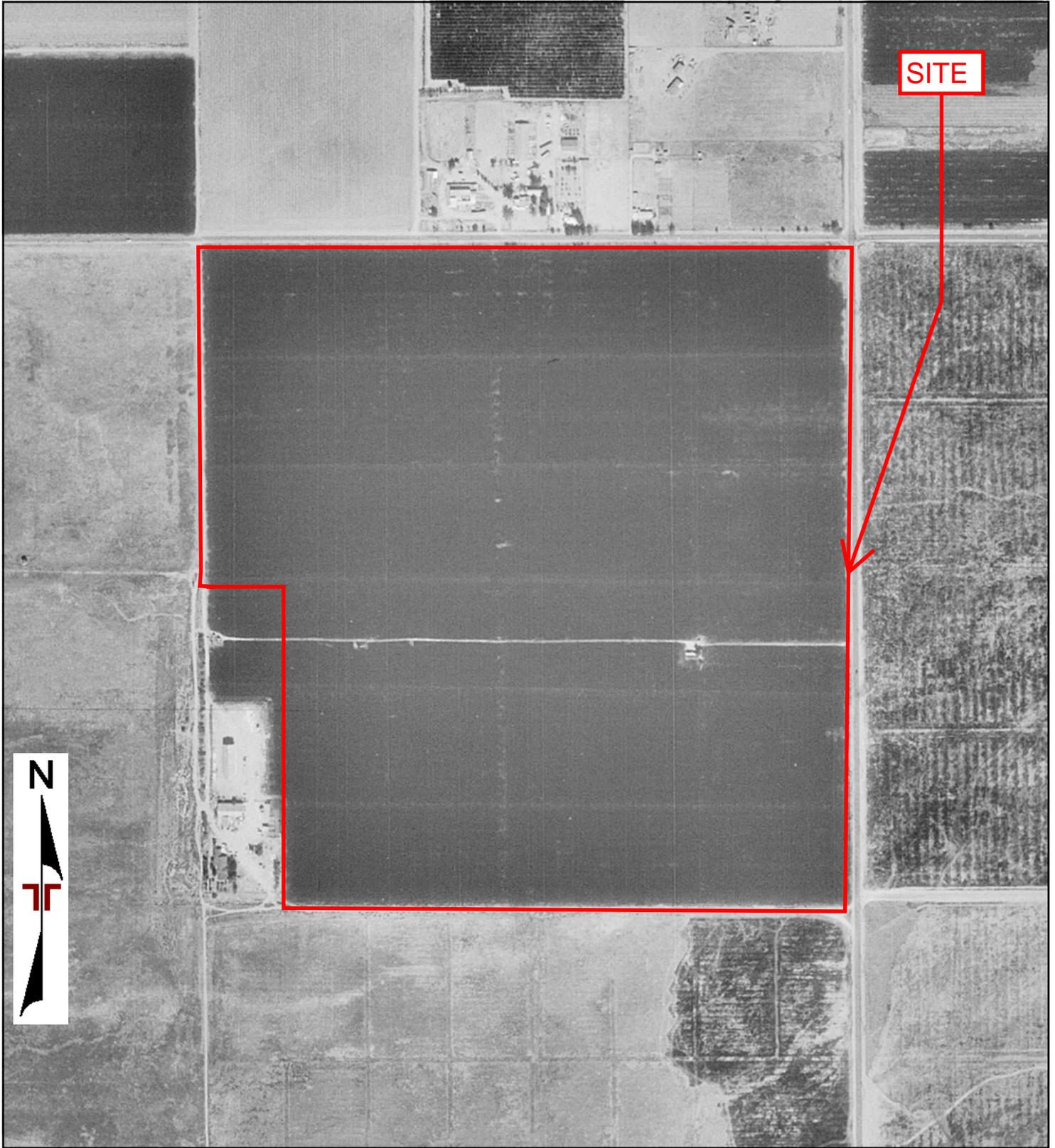
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Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 2002



2002 AERIAL PHOTOGRAPH
ESTRELLA SOLAR
SOUTHWEST OF THE INTERSECTION OF 90 TH STREET WEST & WEST AVENUE A LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536



0 Feet

500

1000

2000

Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 1995



1995 AERIAL PHOTOGRAPH
ESTRELLA SOLAR
SOUTHWEST OF THE INTERSECTION OF 90 TH STREET WEST & WEST AVENUE A LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536



SITE



0 Feet

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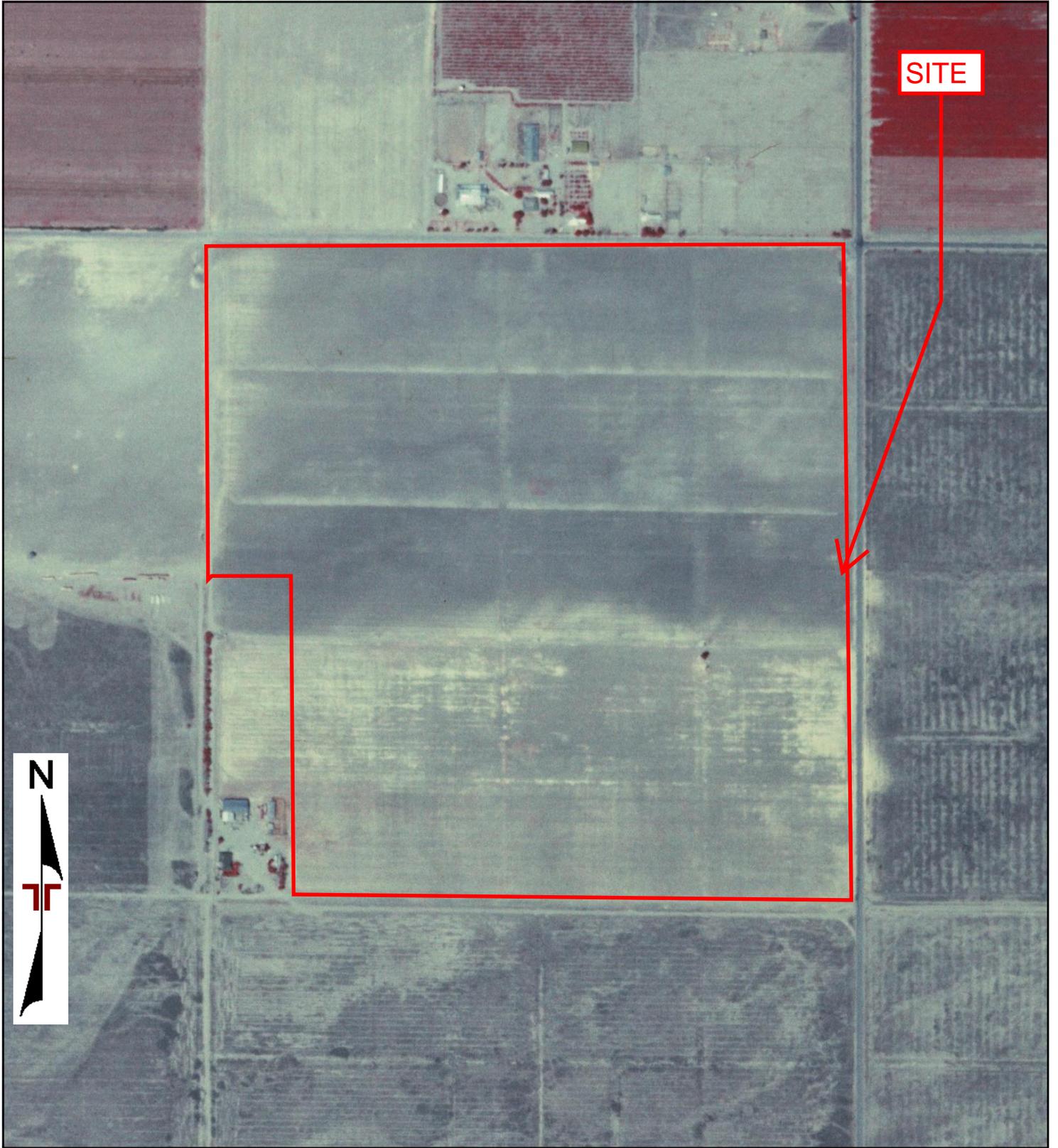
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Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 1989



1989 AERIAL PHOTOGRAPH
ESTRELLA SOLAR
SOUTHWEST OF THE INTERSECTION OF 90 TH STREET WEST & WEST AVENUE A LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536



0 Feet

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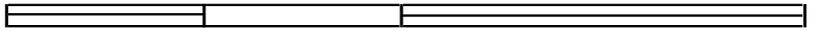
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2000

Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 1987



1987 AERIAL PHOTOGRAPH
ESTRELLA SOLAR
SOUTHWEST OF THE INTERSECTION OF 90 TH STREET WEST & WEST AVENUE A LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536



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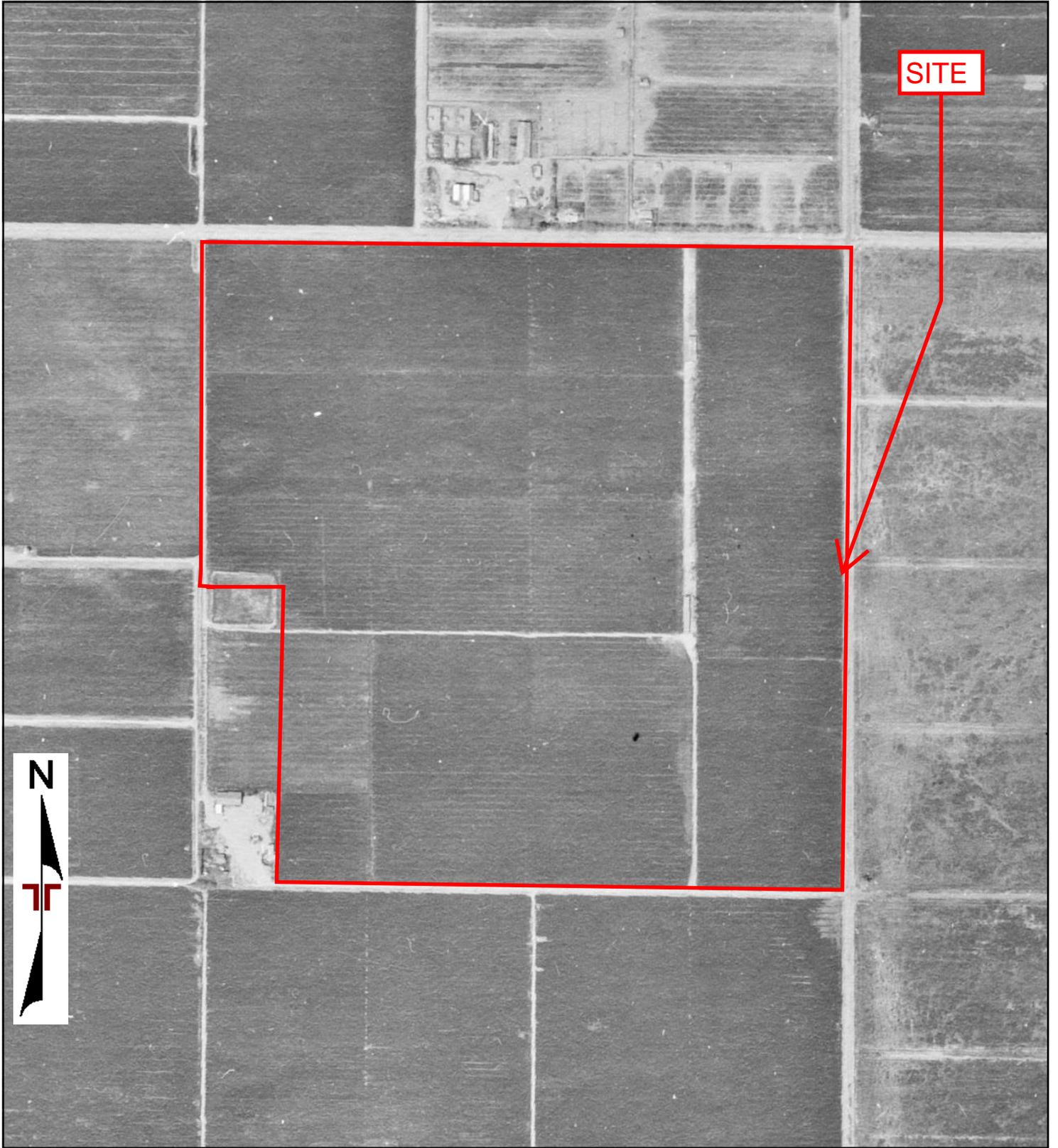
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Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 1973



1973 AERIAL PHOTOGRAPH
ESTRELLA SOLAR
SOUTHWEST OF THE INTERSECTION OF 90 TH STREET WEST & WEST AVENUE A LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536



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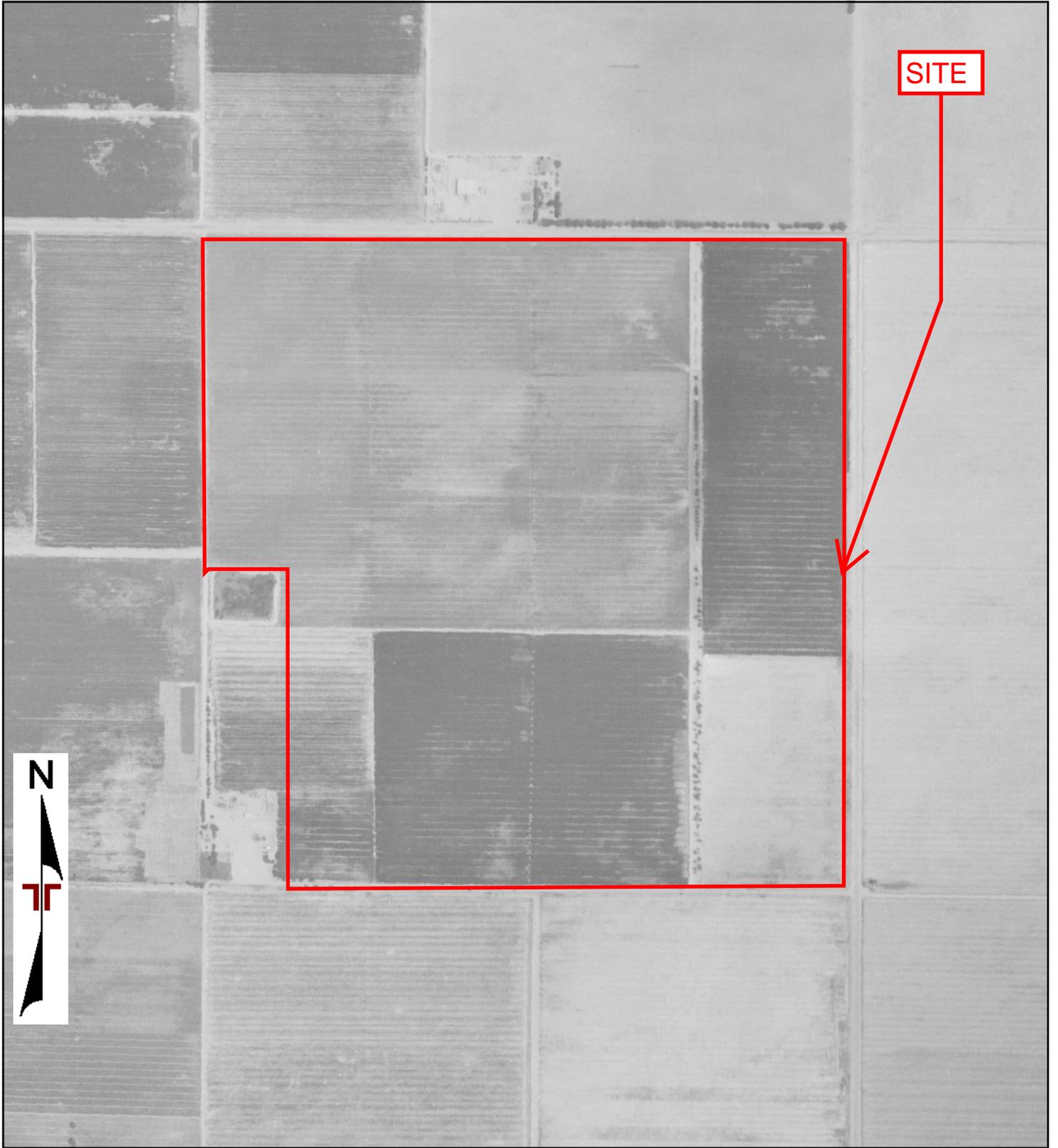
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2000

Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 1968



1968 AERIAL PHOTOGRAPH
ESTRELLA SOLAR
SOUTHWEST OF THE INTERSECTION OF 90 TH STREET WEST & WEST AVENUE A LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536



SITE



0 Feet

500

1000

2000

Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 1954



1954 AERIAL PHOTOGRAPH
ESTRELLA SOLAR SOUTHWEST OF THE INTERSECTION OF 90 TH STREET WEST & WEST AVENUE A LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536



SITE



0 Feet

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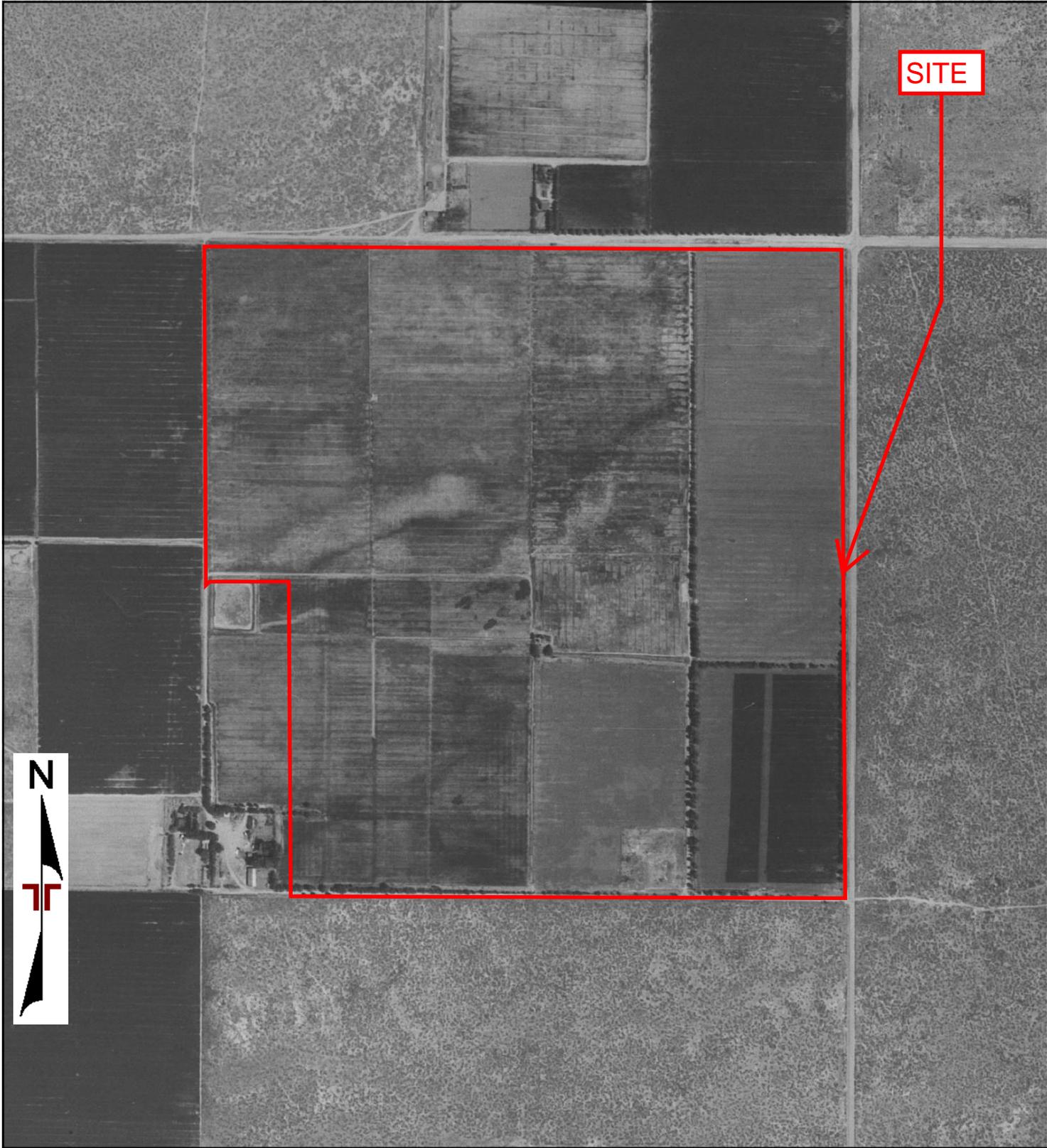
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2000

Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 1948



1948 AERIAL PHOTOGRAPH
ESTRELLA SOLAR
SOUTHWEST OF THE INTERSECTION OF 90 TH STREET WEST & WEST AVENUE A LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536



SITE



0 Feet

500

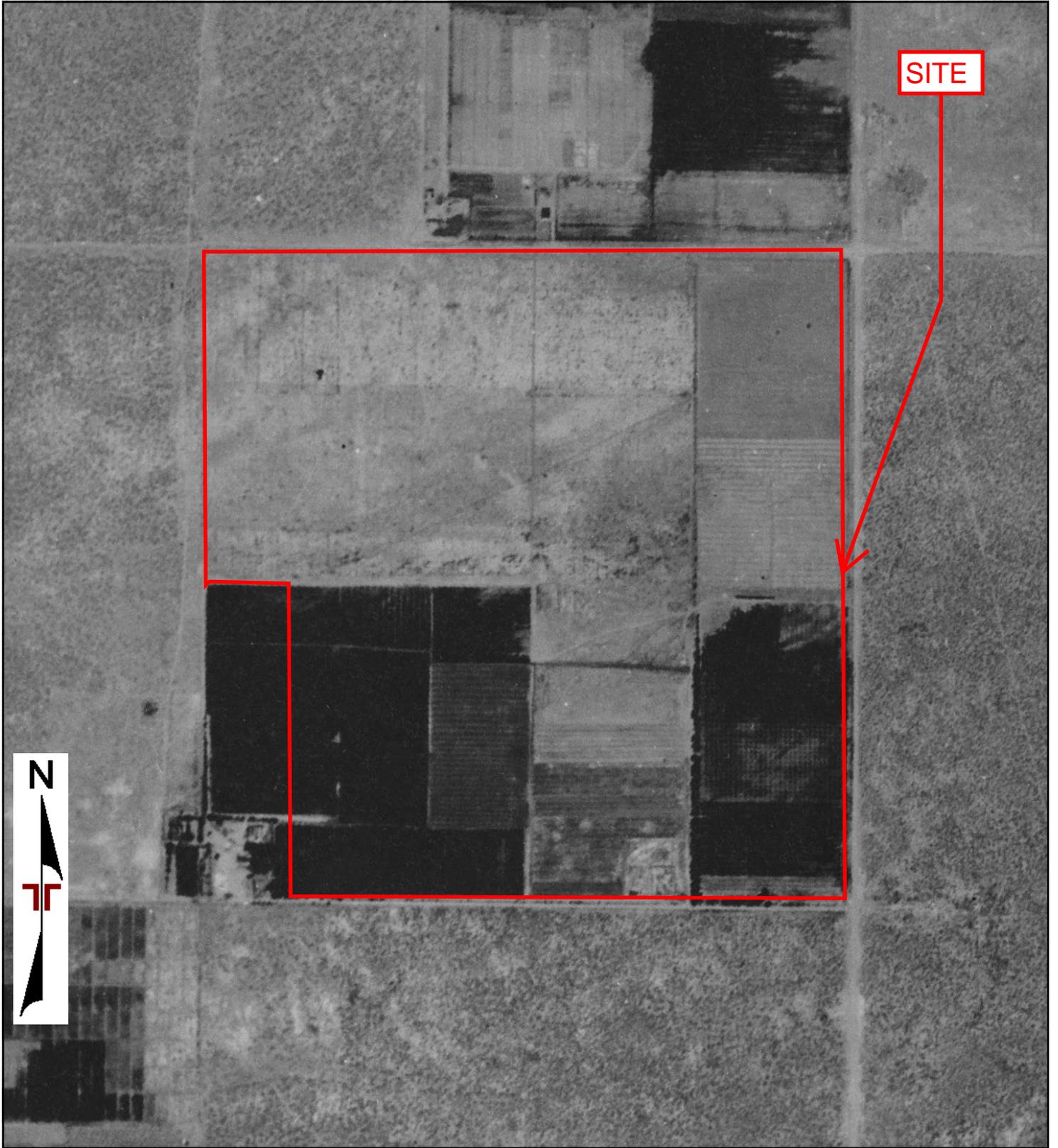
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2000

Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 1940



1940 AERIAL PHOTOGRAPH
ESTRELLA SOLAR
SOUTHWEST OF THE INTERSECTION OF 90 TH STREET WEST & WEST AVENUE A LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536



0 Feet

500

1000

2000

Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 1928



1928 AERIAL PHOTOGRAPH
ESTRELLA SOLAR
SOUTHWEST OF THE INTERSECTION OF 90 TH STREET WEST & WEST AVENUE A LANCASTER AND ANTELOPE ACRES, CALIFORNIA 93536

Estrella Solar 148.27 Acres of Land

Apns 3262-006-002 and 3262-006-003, Antelope Acre

Lancaster, CA 93536

Inquiry Number: 6023724.3

March 26, 2020

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
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03/26/20

Site Name:

Estrella Solar 148.27 Acres of
Apns 3262-006-002 and 3262-
Lancaster, CA 93536
EDR Inquiry # 6023724.3

Client Name:

Terracon
1421 Edinger Avenue
Tustin, CA 92780
Contact: Gabriela Jorquiera



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Certified Sanborn Results:

Certification # D7ED-4315-A459
PO # NA
Project 60197493

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 #: D7ED-4315-A459

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- Library of Congress
- University Publications of America
- EDR Private Collection

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Estrella Solar 148.27 Acres of Land

Apns 3262-006-002 and 3262-006-003, Antelope Acre
Lancaster, CA 93536

Inquiry Number: 6023724.5
March 31, 2020

The EDR-City Directory Image Report

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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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 city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

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<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2017	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2014	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1995	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Haines Criss-Cross Directory
1991	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Haines Criss-Cross Directory
1986	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Haines Criss-Cross Directory
1982	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Haines Criss-Cross Directory
1976	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Haines Criss-Cross Directory
1971	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	B & G City Directory

FINDINGS

TARGET PROPERTY STREET

Apns 3262-006-002 and 3262-006-003, Antelope Acre
Lancaster, CA 93536

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

W AVENUE A

2017	pg A1	EDR Digital Archive
2014	pg A4	EDR Digital Archive
2010	pg A8	EDR Digital Archive
2005	pg A12	EDR Digital Archive
2000	pg A15	EDR Digital Archive
1995	pg A17	Haines Criss-Cross Directory
1991	pg A19	Haines Criss-Cross Directory
1986	pg A21	Haines Criss-Cross Directory
1986	pg A22	Haines Criss-Cross Directory
1982	pg A24	Haines Criss-Cross Directory
1976	pg A26	Haines Criss-Cross Directory
1971	pg A28	B & G City Directory
1971	pg A29	B & G City Directory

FINDINGS

CROSS STREETS

Year CD Image Source

90TH ST W

2017	-	EDR Digital Archive	Target and Adjoining not listed in Source
2014	pg. A2	EDR Digital Archive	
2010	pg. A6	EDR Digital Archive	
2005	pg. A10	EDR Digital Archive	
2000	pg. A14	EDR Digital Archive	
1995	pg. A16	Haines Criss-Cross Directory	
1991	pg. A18	Haines Criss-Cross Directory	
1986	pg. A20	Haines Criss-Cross Directory	
1982	pg. A23	Haines Criss-Cross Directory	
1976	pg. A25	Haines Criss-Cross Directory	
1971	pg. A27	B & G City Directory	

APPENDIX D
ENVIRONMENTAL DATABASE INFORMATION

Estrella Solar 148.27 Acres of Land

Apns 3262-006-002 and 3262-006-003, Antelope Acre
Lancaster, CA 93536

Inquiry Number: 6023724.2s

March 26, 2020

The EDR Radius Map™ Report with GeoCheck®



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

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	9
Orphan Summary	11
Government Records Searched/Data Currency Tracking	GR-1
 <u>GEOCHECK ADDENDUM</u>	
Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-9
Physical Setting Source Map Findings	A-11
Physical Setting Source Records Searched	PSGR-1

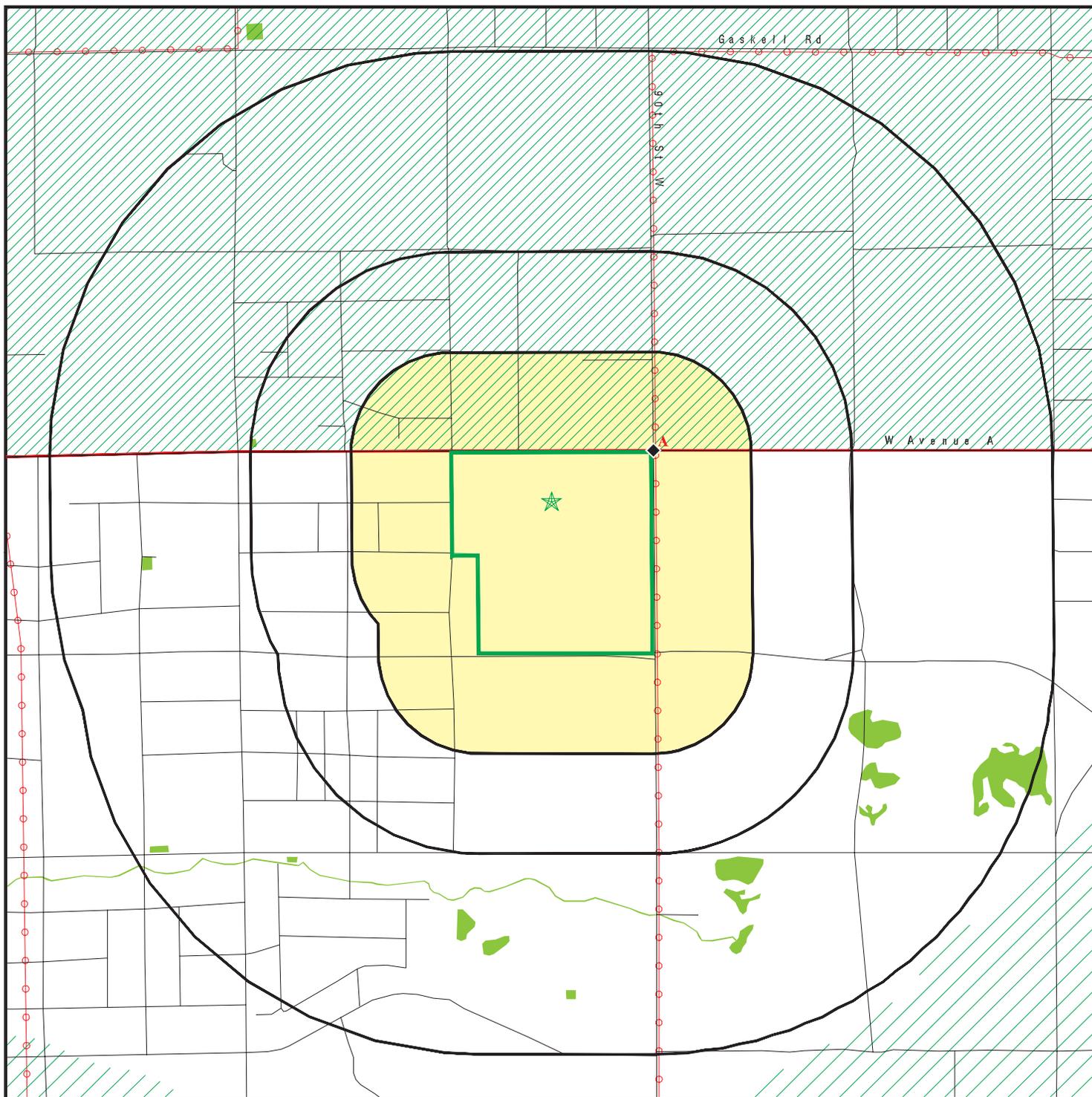
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OVERVIEW MAP - 6023724.2S



Target Property

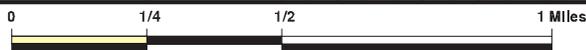
Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites



Indian Reservations BIA

Areas of Concern

County Boundary

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

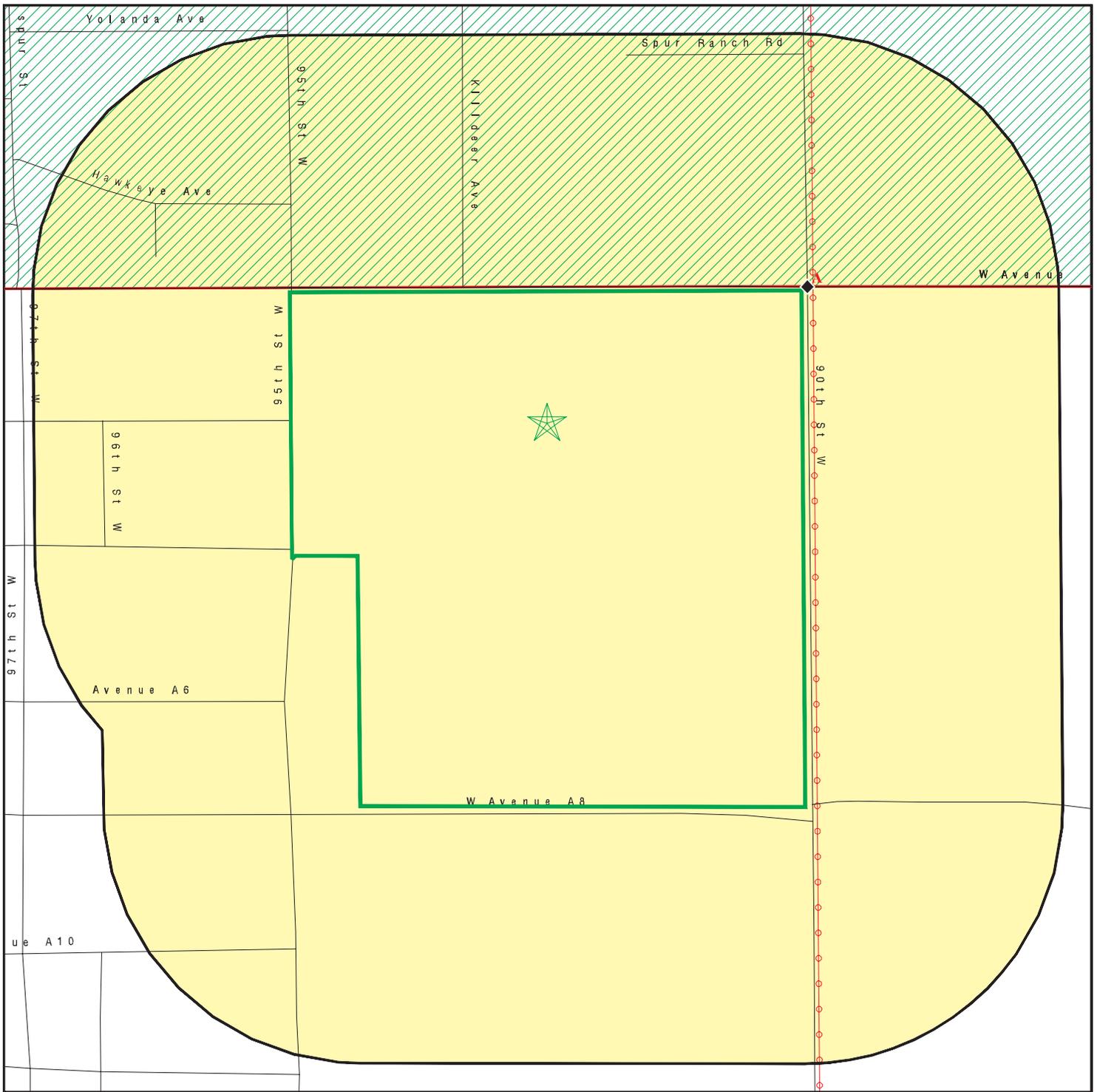
State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Estrella Solar 148.27 Acres of Land
 ADDRESS: Apts 3262-006-002 and 3262-006-003, Antelope Acre
 Lancaster CA 93536
 LAT/LONG: 34.818207 / 118.29492

CLIENT: Terracon
 CONTACT: Gabriela Jorquiera
 INQUIRY #: 6023724.2s
 DATE: March 26, 2020 12:59 pm

DETAIL MAP - 6023724.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  County Boundary
-  Power transmission lines
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  Areas of Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Estrella Solar 148.27 Acres of Land
 ADDRESS: Apts 3262-006-002 and 3262-006-003, Antelope Acre
 Lancaster CA 93536
 LAT/LONG: 34.818207 / 118.29492

CLIENT: Terracon
 CONTACT: Gabriela Jorquiera
 INQUIRY #: 6023724.2s
 DATE: March 26, 2020 1:01 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL RESPONSE</i>								
RESPONSE	1.000		0	0	0	0	NR	0
<i>State- and tribal - equivalent CERCLIS ENVIROSTOR</i>								
ENVIROSTOR	1.000		0	0	0	0	NR	0
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		2	0	NR	NR	NR	2
CA FID UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
LOS ANGELES CO. HMS	TP		NR	NR	NR	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
LA Co. Site Mitigation	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
CERS	TP		NR	NR	NR	NR	NR	0
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
LOS ANGELES CO LF METHANE	TP		0	0	0	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0
<u>EDR HIGH RISK HISTORICAL RECORDS</u>								
<i>EDR Exclusive Records</i>								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
<u>EDR RECOVERED GOVERNMENT ARCHIVES</u>								
<i>Exclusive Recovered Govt. Archives</i>								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	2	0	0	0	0	2

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
-----------------	--	----------------------------	-----------------	------------------	------------------	----------------	---------------	--------------------------

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

A1
ENE
< 1/8
0.007 mi.
36 ft.

RITTER AND GODDE RANCH
90TH STREET WEST AND AVENUE A
ROSAMOND, CA 93560
Site 1 of 2 in cluster A

HIST UST **S118414700**
N/A

Relative:
Lower
Actual:
2437 ft.

HIST UST:
 Name: RITTER AND GODDE RANCH
 Address: 90TH STREET WEST AND AVENUE A
 City,State,Zip: ROSAMOND, CA 93560
 File Number: 00024801
 URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00024801.pdf>

[Click here for Geo Tracker PDF:](#)

A2
ENE
< 1/8
0.007 mi.
36 ft.

RITTER & GODDE RANCH
90TH STREET WEST & AVENUE A
ROSAMOND, CA 93560
Site 2 of 2 in cluster A

HIST UST **U001587137**
N/A

Relative:
Lower
Actual:
2437 ft.

HIST UST:
 Name: RITTER & GODDE RANCH
 Address: 90TH STREET WEST & AVENUE A
 City,State,Zip: ROSAMOND, CA 93560
 Region: STATE
 Facility ID: 00000040554
 Facility Type: Other
 Other Type: AGRICULTURE
 Contact Name: EDGAR C. RITTER
 Telephone: 8057241069
 Owner Name: E.C. RITTER & F.G. GODDE
 Owner Address: 666 WEST AVENUE I
 Owner City,St,Zip: LANCASTER, CA 93534
 Total Tanks: 0004

Tank Num: 001
 Container Num: 1
 Tank Capacity: 00000550
 Tank Used for: PRODUCT
 Type of Fuel: REGULAR
 Leak Detection: Stock Inventor

Tank Num: 002
 Container Num: 1
 Tank Capacity: 00010000
 Tank Used for: PRODUCT
 Type of Fuel: REGULAR
 Leak Detection: Stock Inventor

Tank Num: 003
 Container Num: 2
 Tank Capacity: 00001000
 Tank Used for: PRODUCT
 Type of Fuel: UNLEADED
 Leak Detection: Stock Inventor

Tank Num: 004
 Container Num: 3

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RITTER & GODDE RANCH (Continued)

U001587137

Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Leak Detection: Stock Inventor

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ROSAMOND	1003879424	AVENUE A	1/2 MI W OF W 10TH ST ALONG AV	93560	SEMS-ARCHIVE

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CA	AST	Aboveground Petroleum Storage Tank Facilities	California Environmental Protection Agency	07/06/2016	07/12/2016	09/19/2016
CA	BROWNFIELDS	Considered Brownfields Sites Listing	State Water Resources Control Board	12/18/2019	12/19/2019	02/19/2020
CA	CA BOND EXP. PLAN	Bond Expenditure Plan	Department of Health Services	01/01/1989	07/27/1994	08/02/1994
CA	CA FID UST	Facility Inventory Database	California Environmental Protection Agency	10/31/1994	09/05/1995	09/29/1995
CA	CDL	Clandestine Drug Labs	Department of Toxic Substances Control	06/30/2018	07/16/2019	09/24/2019
CA	CERS	CalEPA Regulated Site Portal Data	California Environmental Protection Agency	10/21/2019	10/22/2019	01/03/2020
CA	CERS HAZ WASTE	CERS HAZ WASTE	CalEPA	10/21/2019	10/22/2019	01/02/2020
CA	CERS TANKS	California Environmental Reporting System (CERS) Tanks	California Environmental Protection Agency	10/21/2019	10/22/2019	01/03/2020
CA	CHMIRS	California Hazardous Material Incident Report System	Office of Emergency Services	05/15/2019	06/24/2019	08/21/2019
CA	CIWQS	California Integrated Water Quality System	State Water Resources Control Board	12/03/2019	12/04/2019	02/04/2020
CA	CORTESE	"Cortese" Hazardous Waste & Substances Sites List	CAL EPA/Office of Emergency Information	12/18/2019	12/20/2019	02/20/2020
CA	CPS-SLIC	Statewide SLIC Cases (GEOTRACKER)	State Water Resources Control Board	12/09/2019	12/10/2019	02/18/2020
CA	CUPA LIVERMORE-PLEASANTON	CUPA Facility Listing	Livermore-Pleasanton Fire Department	05/01/2019	05/14/2019	07/17/2019
CA	CUPA SAN FRANCISCO CO	CUPA Facility Listing	San Francisco County Department of Environmen	10/31/2019	11/01/2019	12/11/2019
CA	DEED	Deed Restriction Listing	DTSC and SWRCB	12/03/2019	12/04/2019	02/04/2020
CA	DRYCLEAN AVAQMD	Antelope Valley Air Quality Management District Drycleaner L	Antelope Valley Air Quality Management Distri	12/02/2019	12/03/2019	02/04/2020
CA	DRYCLEAN SOUTH COAST	South Coast Air Quality Management District Drycleaner Listi	South Coast Air Quality Management District	09/27/2019	10/01/2019	11/07/2019
CA	DRYCLEANERS	Cleaner Facilities	Department of Toxic Substance Control	09/06/2019	10/11/2019	12/12/2019
CA	EMI	Emissions Inventory Data	California Air Resources Board	12/31/2017	06/24/2019	08/22/2019
CA	ENF	Enforcement Action Listing	State Water Resoruces Control Board	07/19/2019	07/22/2019	09/26/2019
CA	ENVIROSTOR	EnviroStor Database	Department of Toxic Substances Control	10/28/2019	10/29/2019	01/07/2020
CA	Financial Assurance 1	Financial Assurance Information Listing	Department of Toxic Substances Control	10/17/2019	10/22/2019	01/02/2020
CA	Financial Assurance 2	Financial Assurance Information Listing	California Integrated Waste Management Board	11/08/2019	11/12/2019	01/08/2020
CA	HAULERS	Registered Waste Tire Haulers Listing	Integrated Waste Management Board	11/15/2019	11/15/2019	01/23/2020
CA	HAZNET	Facility and Manifest Data	California Environmental Protection Agency	12/31/2017	05/29/2019	07/22/2019
CA	HIST CAL-SITES	Calsites Database	Department of Toxic Substance Control	08/08/2005	08/03/2006	08/24/2006
CA	HIST CORTESE	Hazardous Waste & Substance Site List	Department of Toxic Substances Control	04/01/2001	01/22/2009	04/08/2009
CA	HIST UST	Hazardous Substance Storage Container Database	State Water Resources Control Board	10/15/1990	01/25/1991	02/12/1991
CA	HWP	EnviroStor Permitted Facilities Listing	Department of Toxic Substances Control	11/18/2019	11/19/2019	01/23/2020
CA	HWT	Registered Hazardous Waste Transporter Database	Department of Toxic Substances Control	01/06/2020	01/07/2020	03/05/2020
CA	HWTS	Hazardous Waste Tracking System	Department of Toxic Substances Control	10/15/2019	11/14/2019	02/07/2020
CA	ICE	ICE	Department of Toxic Substances Control	11/18/2019	11/19/2019	01/23/2020
CA	LDS	Land Disposal Sites Listing (GEOTRACKER)	State Water Quality Control Board	12/09/2019	12/10/2019	02/14/2020
CA	LIENS	Environmental Liens Listing	Department of Toxic Substances Control	12/02/2019	12/04/2019	02/04/2020
CA	LUST	Leaking Underground Fuel Tank Report (GEOTRACKER)	State Water Resources Control Board	12/09/2019	12/10/2019	02/14/2020
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 2	Fuel Leak List	California Regional Water Quality Control Boa	09/30/2004	10/20/2004	11/19/2004
CA	LUST REG 3	Leaking Underground Storage Tank Database	California Regional Water Quality Control Boa	05/19/2003	05/19/2003	06/02/2003
CA	LUST REG 4	Underground Storage Tank Leak List	California Regional Water Quality Control Boa	09/07/2004	09/07/2004	10/12/2004
CA	LUST REG 5	Leaking Underground Storage Tank Database	California Regional Water Quality Control Boa	07/01/2008	07/22/2008	07/31/2008
CA	LUST REG 6L	Leaking Underground Storage Tank Case Listing	California Regional Water Quality Control Boa	09/09/2003	09/10/2003	10/07/2003
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 7	Leaking Underground Storage Tank Case Listing	California Regional Water Quality Control Boa	02/26/2004	02/26/2004	03/24/2004
CA	LUST REG 8	Leaking Underground Storage Tanks	California Regional Water Quality Control Boa	02/14/2005	02/15/2005	03/28/2005
CA	LUST REG 9	Leaking Underground Storage Tank Report	California Regional Water Quality Control Boa	03/01/2001	04/23/2001	05/21/2001
CA	MCS	Military Cleanup Sites Listing (GEOTRACKER)	State Water Resources Control Board	12/09/2019	12/10/2019	02/18/2020
CA	MILITARY PRIV SITES	Military Privatized Sites (GEOTRACKER)	State Water Resources Control Board	12/09/2019	12/10/2019	02/18/2020

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CA	MILITARY UST SITES	Military UST Sites (GEOTRACKER)	State Water Resources Control Board	12/09/2019	12/10/2019	02/18/2020
CA	MINES	Mines Site Location Listing	Department of Conservation	12/09/2019	12/10/2019	02/24/2020
CA	MWMP	Medical Waste Management Program Listing	Department of Public Health	11/22/2019	12/04/2019	02/04/2020
CA	NON-CASE INFO	Non-Case Information Sites (GEOTRACKER)	State Water Resources Control Board	12/09/2019	12/10/2019	02/18/2020
CA	NOTIFY 65	Proposition 65 Records	State Water Resources Control Board	12/11/2019	12/12/2019	02/21/2020
CA	NPDES	NPDES Permits Listing	State Water Resources Control Board	11/11/2019	11/12/2019	01/08/2020
CA	OTHER OIL GAS	Other Oil & Gas Projects Sites (GEOTRACKER)	State Water Resources Control Board	12/09/2019	12/10/2019	02/18/2020
CA	PEST LIC	Pesticide Regulation Licenses Listing	Department of Pesticide Regulation	12/03/2019	12/04/2019	02/04/2020
CA	PFAS	PFAS Contamination Site Location Listing	State Water Resources Control Board	12/09/2019	12/10/2019	02/19/2020
CA	PROC	Certified Processors Database	Department of Conservation	12/09/2019	12/10/2019	02/19/2020
CA	PROD WATER PONDS	Produced Water Ponds Sites (GEOTRACKER)	State Water Resources Control Board	12/09/2019	12/10/2019	02/18/2020
CA	PROJECT	Project Sites (GEOTRACKER)	State Water Resources Control Board	12/09/2019	12/10/2019	02/18/2020
CA	RESPONSE	State Response Sites	Department of Toxic Substances Control	10/28/2019	10/29/2019	01/07/2020
CA	RGALF	Recovered Government Archive Solid Waste Facilities List	Department of Resources Recycling and Recover		07/01/2013	01/13/2014
CA	RGALUST	Recovered Government Archive Leaking Underground Storage Tan	State Water Resources Control Board		07/01/2013	12/30/2013
CA	SAMPLING POINT	Sampling Point ? Public Sites (GEOTRACKER)	State Water Resources Control Board	12/09/2019	12/10/2019	02/18/2020
CA	SAN FRANCISCO AST	Aboveground Storage Tank Site Listing	San Francisco County Department of Public Hea	08/01/2019	08/02/2019	10/11/2019
CA	SCH	School Property Evaluation Program	Department of Toxic Substances Control	10/28/2019	10/29/2019	01/07/2020
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 6L	SLIC Sites	California Regional Water Quality Control Boa	09/07/2004	09/07/2004	10/12/2004
CA	SLIC REG 6V	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Regional Water Quality Control Board, Victori	05/24/2005	05/25/2005	06/16/2005
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
CA	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	06/06/2012	01/03/2013	02/22/2013
CA	SWEEPS UST	SWEEPS UST Listing	State Water Resources Control Board	06/01/1994	07/07/2005	08/11/2005
CA	SWF/LF (SWIS)	Solid Waste Information System	Department of Resources Recycling and Recover	11/11/2019	11/12/2019	01/08/2020
CA	SWRCY	Recycler Database	Department of Conservation	12/09/2019	12/10/2019	02/19/2020
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	12/06/2019	12/10/2019	02/19/2020
CA	UIC GEO	Underground Injection Control Sites (GEOTRACKER)	State Water Resource Control Board	12/09/2019	12/10/2019	02/18/2020
CA	UST	Active UST Facilities	SWRCB	12/09/2019	12/10/2019	02/21/2020
CA	UST CLOSURE	Proposed Closure of Underground Storage Tank (UST) Cases	State Water Resources Control Board	12/06/2019	12/10/2019	02/25/2020
CA	UST MENDOCINO	Mendocino County UST Database	Department of Public Health	12/19/2019	12/23/2019	02/21/2020
CA	VCP	Voluntary Cleanup Program Properties	Department of Toxic Substances Control	10/28/2019	10/29/2019	01/07/2020
CA	WASTEWATER PITS	Oil Wastewater Pits Listing	RWQCB, Central Valley Region	11/19/2019	01/07/2020	03/09/2020
CA	WDR	Waste Discharge Requirements Listing	State Water Resources Control Board	12/09/2019	12/10/2019	02/19/2020
CA	WDS	Waste Discharge System	State Water Resources Control Board	06/19/2007	06/20/2007	06/29/2007
CA	WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)	State Water Resources Control Board	12/09/2019	12/10/2019	02/18/2020
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
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	09/30/2017	05/08/2018	07/20/2018
US	ABANDONED MINES	Abandoned Mines	Department of Interior	12/09/2019	12/11/2019	02/27/2020

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2015	02/22/2017	09/28/2017
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2018	12/04/2019	01/15/2020
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	01/12/2017	03/05/2019	11/11/2019
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	12/31/2019	01/17/2020	03/06/2020
US	CORRACTS	Corrective Action Report	EPA	12/16/2019	12/16/2019	12/20/2019
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	05/31/2018	07/26/2018	10/05/2018
US	DOD	Department of Defense Sites	USGS	12/31/2005	11/10/2006	01/11/2007
US	DOT OPS	Incident and Accident Data	Department of Transportation, Office of Pipeli	10/01/2019	10/29/2019	01/15/2020
US	Delisted NPL	National Priority List Deletions	EPA	01/30/2020	02/05/2020	02/14/2020
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	01/05/2020	01/07/2020	03/06/2020
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	12/16/2019	12/19/2019	03/06/2020
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	04/03/2019	04/05/2019	05/14/2019
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	04/02/2018	04/11/2018	11/06/2019
US	FEMA UST	Underground Storage Tank Listing	FEMA	08/27/2019	08/28/2019	11/11/2019
US	FINDS	Facility Index System/Facility Registry System	EPA	11/22/2019	12/04/2019	03/02/2020
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	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	11/12/2019	11/19/2019	01/28/2020
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	11/18/2019	11/19/2019	01/28/2020
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	08/08/2017	09/11/2018	09/14/2018
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	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	12/05/2019	12/06/2019	02/14/2020
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Services, Indian	04/01/2014	08/06/2014	01/29/2015
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	10/01/2019	12/04/2019	02/10/2020
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	10/11/2019	12/04/2019	02/10/2020
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	10/10/2019	12/05/2019	02/10/2020
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	10/01/2019	12/04/2019	02/10/2020
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	10/02/2019	12/04/2019	02/10/2020
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	10/15/2019	12/17/2019	02/10/2020
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	10/03/2019	12/04/2019	02/14/2020
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	10/04/2019	12/04/2019	02/27/2020
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	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	10/01/2019	12/04/2019	02/10/2020
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	10/11/2019	12/04/2019	02/10/2020
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	10/10/2019	12/05/2019	02/10/2020
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	10/01/2019	12/04/2019	02/10/2020
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	10/02/2019	12/04/2019	02/10/2020
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	10/11/2019	12/04/2019	02/10/2020
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	10/03/2019	12/04/2019	02/14/2020

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	10/04/2019	12/04/2019	02/27/2020
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
US	INDIAN VCP R7	Voluntary Cleanup Priority Listing	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	01/30/2020	02/05/2020	02/14/2020
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	01/30/2020	02/05/2020	02/14/2020
US	LUCIS	Land Use Control Information System	Department of the Navy	11/04/2019	11/13/2019	01/28/2020
US	MINES MRDS	Mineral Resources Data System	USGS	04/06/2018	10/21/2019	10/24/2019
US	MINES VIOLATIONS	MSHA Violation Assessment Data	DOL, Mine Safety & Health Admi	12/03/2019	12/03/2019	01/28/2020
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	10/25/2019	10/25/2019	01/15/2020
US	NPL	National Priority List	EPA	01/30/2020	02/05/2020	02/14/2020
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	10/09/2019	10/11/2019	12/20/2019
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	09/13/2019	11/06/2019	02/10/2020
US	PRP	Potentially Responsible Parties	EPA	01/30/2020	02/06/2020	02/14/2020
US	Proposed NPL	Proposed National Priority List Sites	EPA	01/30/2020	02/05/2020	02/14/2020
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	07/01/2019	07/01/2019	09/23/2019
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	12/16/2019	12/16/2019	12/20/2019
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	12/16/2019	12/16/2019	12/20/2019
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	12/16/2019	12/16/2019	12/20/2019
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	12/16/2019	12/16/2019	12/20/2019
US	RCRA-VSQQ	RCRA - Very Small Quantity Generators (Formerly Conditionall	Environmental Protection Agency	12/16/2019	12/16/2019	12/20/2019
US	RMP	Risk Management Plans	Environmental Protection Agency	04/25/2019	05/02/2019	05/23/2019
US	ROD	Records Of Decision	EPA	01/30/2020	02/05/2020	02/14/2020
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	01/01/2017	02/03/2017	04/07/2017
US	SEMS	Superfund Enterprise Management System	EPA	01/30/2020	02/05/2020	02/14/2020
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	01/30/2020	02/05/2020	02/14/2020
US	SSTS	Section 7 Tracking Systems	EPA	05/01/2019	10/23/2019	01/15/2020
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2017	11/16/2018	11/21/2019
US	TSCA	Toxic Substances Control Act	EPA	12/31/2016	06/21/2017	01/05/2018
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	08/30/2019	11/15/2019	01/28/2020
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	12/02/2019	12/16/2019	03/06/2020
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	06/11/2019	06/13/2019	09/03/2019
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	11/22/2019	11/22/2019	01/28/2020
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	12/16/2019	12/19/2019	02/27/2020
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	06/11/2019	06/13/2019	09/03/2019
US	US INST CONTROL	Sites with Institutional Controls	Environmental Protection Agency	11/22/2019	11/22/2019	01/28/2020
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	11/06/2019	11/25/2019	01/28/2020
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	12/05/2005	02/29/2008	04/18/2008
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	UXO	Unexploded Ordnance Sites	Department of Defense	12/31/2017	01/17/2019	04/01/2019

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CT	CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protecti	01/30/2020	01/30/2020	03/09/2020
NJ	NJ MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2018	04/10/2019	05/16/2019
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	01/01/2019	05/01/2019	06/21/2019
PA	PA MANIFEST	Manifest Information	Department of Environmental Protection	06/30/2018	07/19/2019	09/10/2019
RI	RI MANIFEST	Manifest information	Department of Environmental Management	12/31/2018	10/02/2019	12/10/2019
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	05/31/2018	06/19/2019	09/03/2019
US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			
CA	Daycare Centers	Sensitive Receptor: Licensed Facilities	Department of Social Services			
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
CA	State Wetlands	Wetland Inventory	Department of Fish and Wildlife			
US	Topographic Map	Current USGS 7.5 Minute Topographic Map	U.S. Geological Survey			
US	Oil/Gas Pipelines		Endeavor Business Media			
US	Electric Power Transmission Line Data		Endeavor Business Media			

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

ESTRELLA SOLAR 148.27 ACRES OF LAND
APNS 3262-006-002 AND 3262-006-003, ANTELOPE ACRE
LANCASTER, CA 93536

TARGET PROPERTY COORDINATES

Latitude (North):	34.818207 - 34° 49' 5.55"
Longitude (West):	118.29492 - 118° 17' 41.71"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	381569.4
UTM Y (Meters):	3853450.5
Elevation:	2444 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5630793 LITTLE BUTTES, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

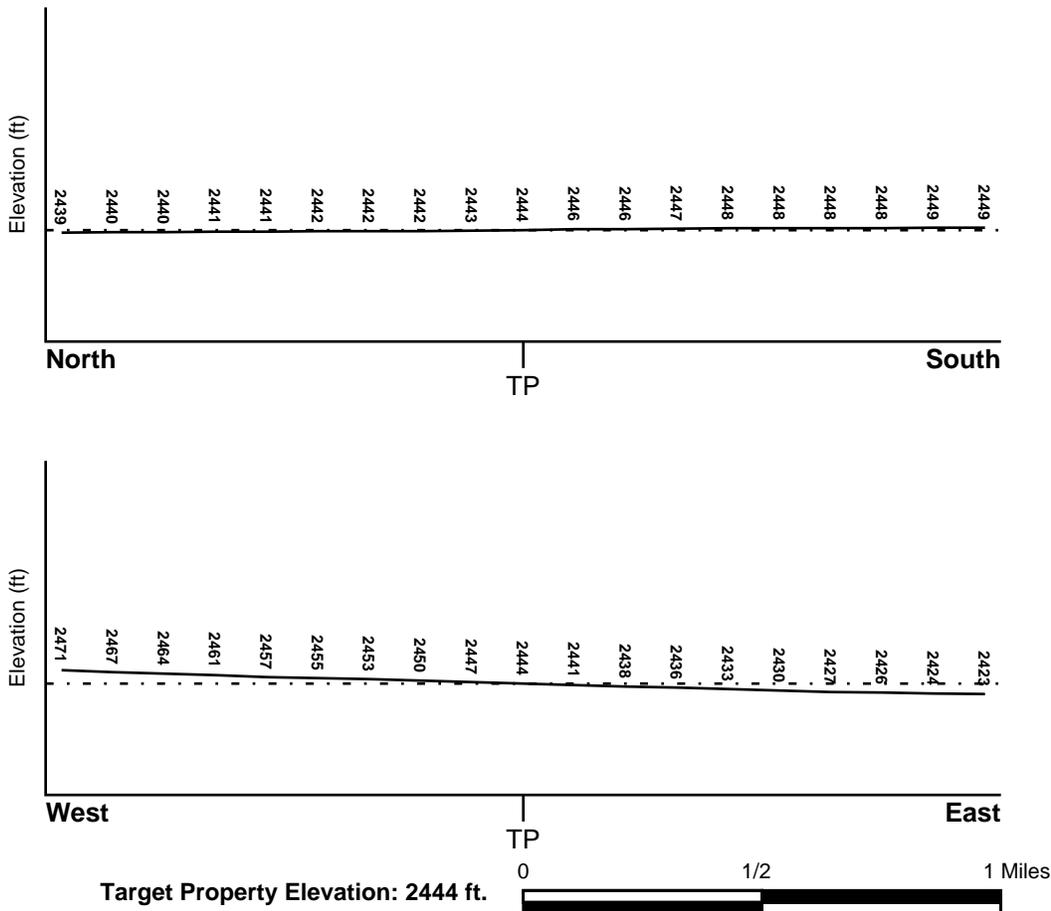
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ENE

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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
06029C4000E	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
Not Reported	

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
LITTLE BUTTES	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.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

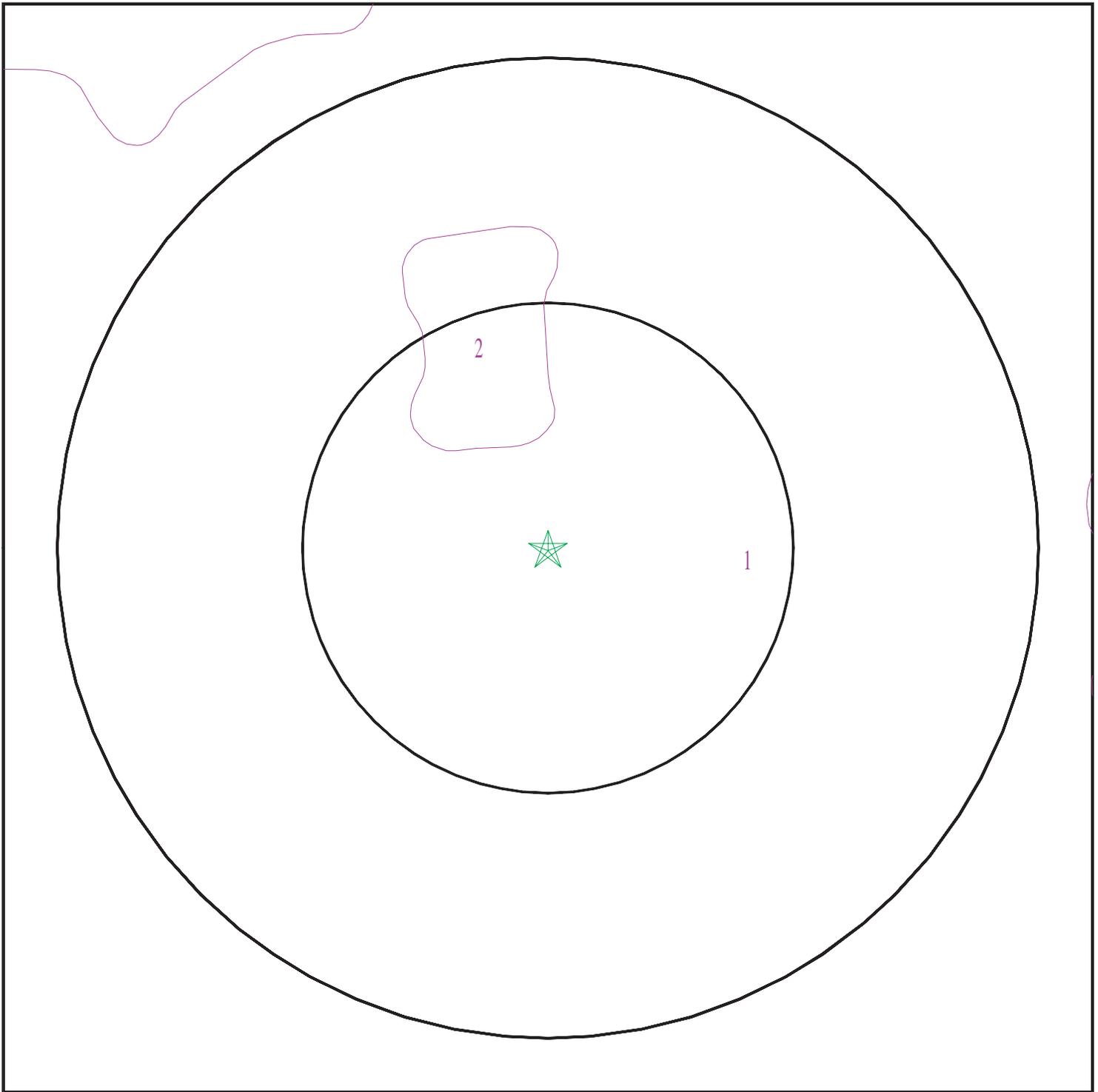
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 6023724.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Estrella Solar 148.27 Acres of Land
ADDRESS: Apts 3262-006-002 and 3262-006-003, Antelope Acre
Lancaster CA 93536
LAT/LONG: 34.818207 / 118.29492

CLIENT: Terracon
CONTACT: Gabriela Jorquiera
INQUIRY #: 6023724.2s
DATE: March 26, 2020 1:02 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Rosamond

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine 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: 14 Min: 4	Max: 8.4 Min: 7.9
2	7 inches	59 inches	stratified loam to silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9

Soil Map ID: 2

Soil Component Name: Rosamond

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	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: 14 Min: 4	Max: 8.4 Min: 7.9
2	7 inches	59 inches	stratified loam to silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	USGS40000154931	1/8 - 1/4 Mile North
A2	USGS40000154932	1/8 - 1/4 Mile NNW
B5	USGS40000154796	1/8 - 1/4 Mile South
C7	USGS40000154800	1/8 - 1/4 Mile SE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
D8	USGS40000154802	1/4 - 1/2 Mile SW
D9	USGS40000154801	1/4 - 1/2 Mile SW
E10	USGS40000154952	1/4 - 1/2 Mile NW
11	USGS40000154939	1/4 - 1/2 Mile ENE
F15	USGS40000154771	1/4 - 1/2 Mile SSW
F16	USGS40000154776	1/4 - 1/2 Mile SSW
G18	USGS40000154775	1/4 - 1/2 Mile SE
22	USGS40000154770	1/4 - 1/2 Mile SE
I23	USGS40000154945	1/2 - 1 Mile WNW
J25	USGS40000155032	1/2 - 1 Mile NNE
K27	USGS40000154750	1/2 - 1 Mile SW
M29	USGS40000154655	1/2 - 1 Mile South
L32	USGS40000154769	1/2 - 1 Mile ESE
N33	USGS40000154652	1/2 - 1 Mile SSW
34	USGS40000154946	1/2 - 1 Mile WNW
O35	USGS40000154694	1/2 - 1 Mile SW
P36	USGS40000154832	1/2 - 1 Mile West
Q39	USGS40000155012	1/2 - 1 Mile WNW
40	USGS40000155089	1/2 - 1 Mile NNW
R41	USGS40000149825	1/2 - 1 Mile WSW
S47	USGS40000154592	1/2 - 1 Mile South
T48	USGS40000154593	1/2 - 1 Mile SSW
U51	USGS40000154591	1/2 - 1 Mile SSE
U52	USGS40000154590	1/2 - 1 Mile SSE
53	USGS40000154930	1/2 - 1 Mile East
54	USGS40000154772	1/2 - 1 Mile WSW
55	USGS40000155125	1/2 - 1 Mile NNE
58	USGS40000155074	1/2 - 1 Mile NW
U59	USGS40000154559	1/2 - 1 Mile SSE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

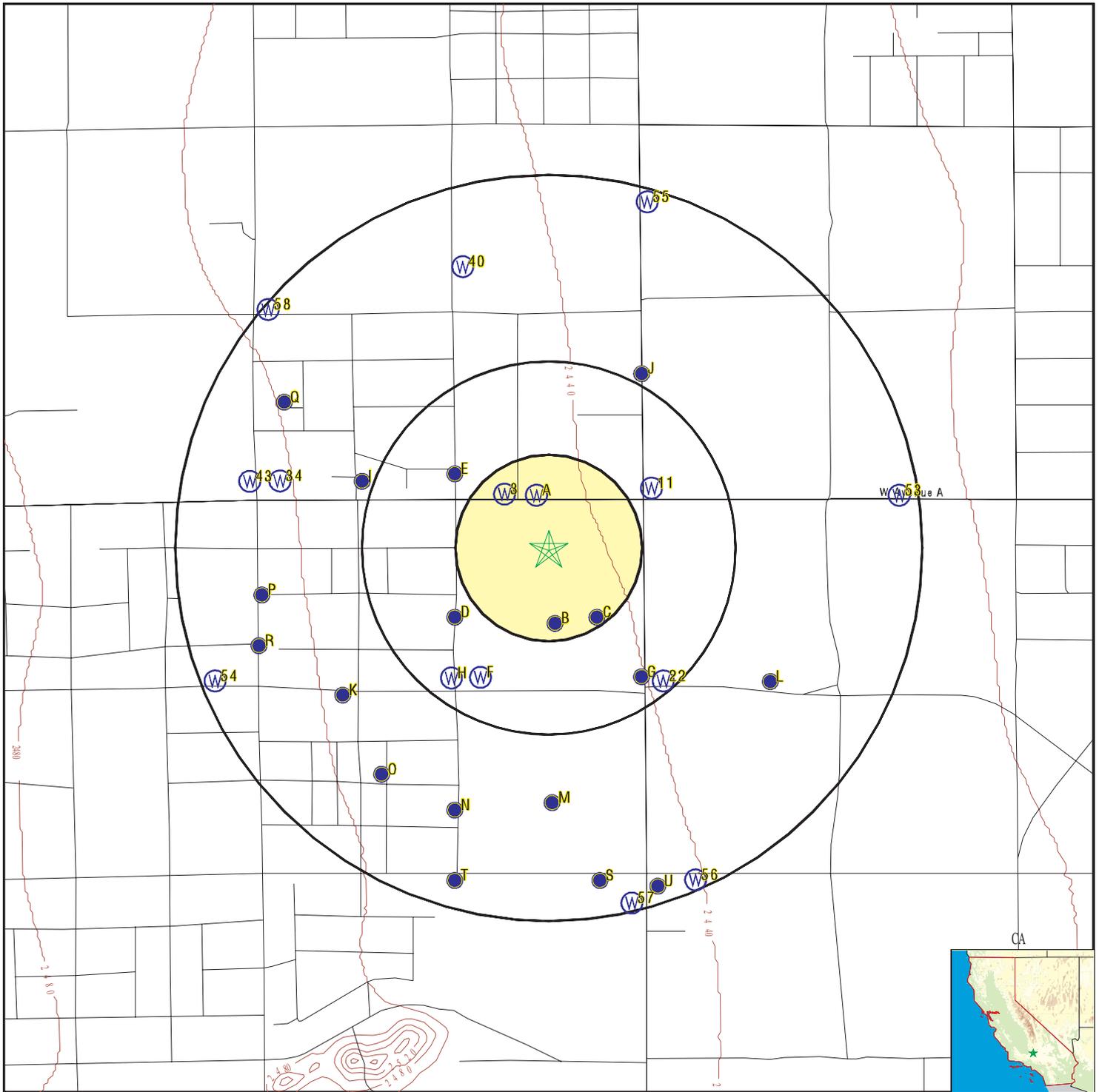
MAP ID	WELL ID	LOCATION FROM TP
3	CADWR8000013209	1/8 - 1/4 Mile NW
B4	CADWR8000013125	1/8 - 1/4 Mile South
C6	CADWR8000013127	1/8 - 1/4 Mile SSE
D12	CADWR8000013129	1/4 - 1/2 Mile WSW
D13	CADWR8000013128	1/4 - 1/2 Mile WSW
E14	CADWR8000013219	1/4 - 1/2 Mile NW
G17	CADWR8000013109	1/4 - 1/2 Mile SSE
H19	CADWR8000013107	1/4 - 1/2 Mile SSW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
H20	CADWR8000013110	1/4 - 1/2 Mile SW
G21	CADWR8000013106	1/4 - 1/2 Mile SE
J24	CADWR8000013265	1/2 - 1 Mile NNE
I26	CADWR8000013214	1/2 - 1 Mile WNW
L28	CADWR8000013105	1/2 - 1 Mile ESE
M30	CADWR8000013045	1/2 - 1 Mile South
K31	CADWR8000013095	1/2 - 1 Mile SW
N37	CADWR8000013044	1/2 - 1 Mile SSW
O38	CADWR8000013068	1/2 - 1 Mile SW
P42	CADWR8000013149	1/2 - 1 Mile West
43	CADWR8000013215	1/2 - 1 Mile WNW
Q44	CADWR8000013254	1/2 - 1 Mile WNW
R45	CADWR8000013119	1/2 - 1 Mile WSW
S46	CADWR8000013015	1/2 - 1 Mile South
U49	CADWR8000013014	1/2 - 1 Mile SSE
T50	CADWR8000013016	1/2 - 1 Mile SSW
56	CADWR8000013013	1/2 - 1 Mile SSE
57	CADWR8000012990	1/2 - 1 Mile SSE

PHYSICAL SETTING SOURCE MAP - 6023724.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: Estrella Solar 148.27 Acres of Land ADDRESS: Apts 3262-006-002 and 3262-006-003, Antelope Acre Lancaster CA 93536 LAT/LONG: 34.818207 / 118.29492	CLIENT: Terracon CONTACT: Gabriela Jorquiera INQUIRY #: 6023724.2s DATE: March 26, 2020 1:02 pm
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A1
North
1/8 - 1/4 Mile
Lower

FED USGS USGS40000154931

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N013W31Q002S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	500
Well Hole Depth Units:	ft		

A2
NNW
1/8 - 1/4 Mile
Higher

FED USGS USGS40000154932

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N013W31Q001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19170401	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	443
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1917-04-01
Feet below surface:	63.00	Feet to sea level:	Not Reported
Note:	Not Reported		

3
NW
1/8 - 1/4 Mile
Higher

CA WELLS CADWR8000013209

State Well #:	09N13W31Q001S	Station ID:	30178
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

B4
South
1/8 - 1/4 Mile
Higher

CA WELLS CADWR8000013125

State Well #:	08N13W06H001S	Station ID:	9518
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

B5
South
1/8 - 1/4 Mile
Higher

FED USGS USGS40000154796

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N013W06H001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	100
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1920-01-01
Feet below surface:	56.00	Feet to sea level:	Not Reported
Note:	Not Reported		

C6
SSE
1/8 - 1/4 Mile
Higher

CA WELLS CADWR8000013127

State Well #:	08N13W06H002S	Station ID:	31125
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

C7
SE
1/8 - 1/4 Mile
Lower

FED USGS USGS40000154800

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N013W06H002S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Construction Date:	19630427	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	702
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1963-04-27
Feet below surface:	306.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**D8
SW
1/4 - 1/2 Mile
Higher**

FED USGS USGS40000154802

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N013W06G002S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19590214	Well Depth:	690
Well Depth Units:	ft	Well Hole Depth:	700
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	2	Level reading date:	1959-02-28
Feet below surface:	203	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1959-02-19	Feet below surface:	205
Feet to sea level:	Not Reported	Note:	Not Reported

**D9
SW
1/4 - 1/2 Mile
Higher**

FED USGS USGS40000154801

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N013W06G001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19460101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	526
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	3	Level reading date:	1963-03-27
Feet below surface:	255.10	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1958-03-26	Feet below surface:	197.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1954-09-01	Feet below surface:	252.8
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Feet to sea level: Not Reported Note: Not Reported

**E10
NW
1/4 - 1/2 Mile
Higher**

FED USGS USGS40000154952

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N013W31Q003S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19460101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	500
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1963-03-07
Feet below surface:	250.10	Feet to sea level:	Not Reported
Note:	Not Reported		

**11
ENE
1/4 - 1/2 Mile
Lower**

FED USGS USGS40000154939

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N013W32N001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	150
Well Hole Depth Units:	ft		

**D12
WSW
1/4 - 1/2 Mile
Higher**

CA WELLS CADWR8000013129

State Well #:	08N13W06G002S	Station ID:	9516
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

D13
WSW
 1/4 - 1/2 Mile
 Higher

CA WELLS CADWR8000013128

State Well #:	08N13W06G001S	Station ID:	31123
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

E14
NW
 1/4 - 1/2 Mile
 Higher

CA WELLS CADWR8000013219

State Well #:	09N13W31Q003S	Station ID:	12271
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

F15
SSW
 1/4 - 1/2 Mile
 Higher

FED USGS USGS40000154771

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N013W06G004S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19080101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	80
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1908-01-01
Feet below surface:	60.50	Feet to sea level:	Not Reported
Note:	Not Reported		

F16
SSW
 1/4 - 1/2 Mile
 Higher

FED USGS USGS40000154776

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N013W06G003S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Construction Date:	19080101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	76
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1908-01-01
Feet below surface:	60.50	Feet to sea level:	Not Reported
Note:	Not Reported		

G17
SSE
1/4 - 1/2 Mile
Lower

CA WELLS CADWR8000013109

State Well #:	08N13W05E001S	Station ID:	31121
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

G18
SE
1/4 - 1/2 Mile
Lower

FED USGS USGS40000154775

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18090206
Monitor Location:	008N013W05E001S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Units:	Not Reported
Drainage Area:	Not Reported		
Contrib Drainage Area:	Not Reported		
Aquifer:	Basin and Range basin-fill aquifers	Aquifer Type:	Not Reported
Formation Type:	Not Reported	Well Depth:	552
Construction Date:	Not Reported	Well Hole Depth:	552
Well Depth Units:	ft		
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	53	Level reading date:	2004-03-29
Feet below surface:	238.27	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	2003-03-24	Feet below surface:	234.67
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2002-03-27	Feet below surface:	232.73
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-03-15	Feet below surface:	220.25
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2000-03-21	Feet below surface:	222.40
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1999-03-16	Feet below surface:	225.01
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1998-03-17	Feet below surface:	221.93
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1997-03-11	Feet below surface:	229.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-04-17	Feet below surface:	236.01
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-04-19	Feet below surface:	227.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-04-12	Feet below surface:	236.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-04-20	Feet below surface:	234.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-04-14	Feet below surface:	234.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-03-18	Feet below surface:	237.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-03-12	Feet below surface:	242.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-03-20	Feet below surface:	249.66
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-03-29	Feet below surface:	251.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-02-24	Feet below surface:	251.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-02-26	Feet below surface:	251.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-03-27	Feet below surface:	261.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-03-06	Feet below surface:	264.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-04-13	Feet below surface:	268.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-02-09	Feet below surface:	272.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-14	Feet below surface:	274.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-09	Feet below surface:	269.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-22	Feet below surface:	289.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-28	Feet below surface:	296.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-09	Feet below surface:	302.53
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1976-02-10	Feet below surface:	302.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-19	Feet below surface:	306.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-11	Feet below surface:	291.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-02-12	Feet below surface:	271.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-03-15	Feet below surface:	272.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-10-28	Feet below surface:	269.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-03-16	Feet below surface:	271.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-10-23	Feet below surface:	271.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-03-16	Feet below surface:	269.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-04-15	Feet below surface:	270.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-03-14	Feet below surface:	270.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-12-26	Feet below surface:	269.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-03-22	Feet below surface:	266.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-04-10	Feet below surface:	264.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-11-14	Feet below surface:	269.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-05-22	Feet below surface:	340.2
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-04-05	Feet below surface:	298.2
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1961-10-19	Feet below surface:	297.8
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1961-04-04	Feet below surface:	267.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-11-27	Feet below surface:	244.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-09	Feet below surface:	219.8
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1959-11-17	Feet below surface:	244.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-14	Feet below surface:	195.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-21	Feet below surface:	204.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-12-03	Feet below surface:	104.00
Feet to sea level:	Not Reported	Note:	Not Reported

**H19
SSW
1/4 - 1/2 Mile
Higher**

CA WELLS CADWR8000013107

State Well #:	08N13W06G004S	Station ID:	9517
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

**H20
SW
1/4 - 1/2 Mile
Higher**

CA WELLS CADWR8000013110

State Well #:	08N13W06G003S	Station ID:	31124
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

**G21
SE
1/4 - 1/2 Mile
Lower**

CA WELLS CADWR8000013106

State Well #:	08N13W05F001S	Station ID:	9513
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

**22
SE
1/4 - 1/2 Mile
Lower**

FED USGS USGS40000154770

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18090206
Monitor Location:	008N013W05F001S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Aquifer Type:	Not Reported
Contrib Drainage Area:	Not Reported		
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1962-05-22
Feet below surface:	313.90	Feet to sea level:	Not Reported
Note:	The site was being pumped.		

Level reading date:	1955-05-15	Feet below surface:	195.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.

J23
WNW
1/2 - 1 Mile
Higher

FED USGS USGS40000154945

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18090206
Monitor Location:	009N013W31P001S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Contrib Drainage Area:	Not Reported	Formation Type:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers	Construction Date:	19520101
Formation Type:	Not Reported	Well Depth Units:	Not Reported
Construction Date:	19520101	Well Hole Depth:	500
Well Depth Units:	Not Reported		
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1963-03-07
Feet below surface:	340.00	Feet to sea level:	Not Reported
Note:	Not Reported		

J24
NNE
1/2 - 1 Mile
Lower

CA WELLS CADWR8000013265

State Well #:	09N13W32M001S	Station ID:	12272
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

J25
NNE
1/2 - 1 Mile
Lower

FED USGS USGS40000155032

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18090206
Monitor Location:	009N013W32M001S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Contrib Drainage Area:	Not Reported	Formation Type:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers	Construction Date:	19611201
Formation Type:	Not Reported	Well Depth:	Not Reported
Construction Date:	19611201		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Depth Units:	Not Reported	Well Hole Depth:	678
Well Hole Depth Units:	ft		
Ground water levels,Number of Measurements:		2	Level reading date:
Feet below surface:	292		1963-03-21
Note:	Not Reported	Feet to sea level:	Not Reported
Level reading date:	1963-03-14	Feet below surface:	309
Feet to sea level:	Not Reported	Note:	The site was being pumped.

I26
WNW
1/2 - 1 Mile
Higher

CA WELLS CADWR8000013214

State Well #:	09N13W31P001S	Station ID:	12270
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

K27
SW
1/2 - 1 Mile
Higher

FED USGS USGS40000154750

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18090206
Monitor Location:	008N013W06M001S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Aquifer Type:	Not Reported
Contrib Drainage Area:	Not Reported	Well Depth:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers	Well Hole Depth:	607
Formation Type:	Not Reported		
Construction Date:	19630101		
Well Depth Units:	Not Reported		
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1963-05-02
Feet below surface:	305.30	Feet to sea level:	Not Reported
Note:	Not Reported		

L28
ESE
1/2 - 1 Mile
Lower

CA WELLS CADWR8000013105

State Well #:	08N13W05F002S	Station ID:	9514
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

M29
South
1/2 - 1 Mile
Higher

FED USGS USGS40000154655

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18090206
Monitor Location:	008N013W06R001S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Units:	Not Reported
Drainage Area:	Not Reported	Aquifer Type:	Not Reported
Contrib Drainage Area:	Not Reported	Well Depth:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers	Well Hole Depth:	301
Formation Type:	Not Reported		
Construction Date:	19141110		
Well Depth Units:	Not Reported		
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1914-11-10
Feet below surface:	72.00	Feet to sea level:	Not Reported
Note:	Not Reported		

M30
South
1/2 - 1 Mile
Higher

CA WELLS CADWR8000013045

State Well #:	08N13W06R001S	Station ID:	31127
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

K31
SW
1/2 - 1 Mile
Higher

CA WELLS CADWR8000013095

State Well #:	08N13W06M001S	Station ID:	31126
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

L32
ESE
1/2 - 1 Mile
Lower

FED USGS USGS40000154769

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18090206
Monitor Location:	008N013W05F002S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Units:	Not Reported
Drainage Area:	Not Reported	Aquifer Type:	Not Reported
Contrib Drainage Area:	Not Reported		
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Construction Date:	19470101	Well Depth:	705
Well Depth Units:	ft	Well Hole Depth:	742
Well Hole Depth Units:	ft		
Ground water levels,Number of Measurements:	4	Level reading date:	1962-05-22
Feet below surface:	310.40	Feet to sea level:	Not Reported
Note:	The site was being pumped.		
Level reading date:	1959-09-27	Feet below surface:	269.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-05-15	Feet below surface:	195.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1945-11-07	Feet below surface:	96.9
Feet to sea level:	Not Reported	Note:	Not Reported

**N33
SSW
1/2 - 1 Mile
Higher**

FED USGS USGS40000154652

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N013W06Q001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19540728	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	597
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1957-09-22
Feet below surface:	314.50	Feet to sea level:	Not Reported
Note:	Not Reported		

**34
WNW
1/2 - 1 Mile
Higher**

FED USGS USGS40000154946

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N013W31N001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19490101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	520
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1963-03-07
Feet below surface:	350.00	Feet to sea level:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Note: The site was being pumped.

**O35
SW
1/2 - 1 Mile
Higher**

FED USGS USGS40000154694

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N013W06L001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19250101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	303
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	7	Level reading date:	1942-11-24
Feet below surface:	110	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1941-11-24	Feet below surface:	122
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1940-11-29	Feet below surface:	118
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1938-08-11	Feet below surface:	112
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1938-05-18	Feet below surface:	128
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1936-10-20	Feet below surface:	114
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1936-05-10	Feet below surface:	100
Feet to sea level:	Not Reported	Note:	Not Reported

**P36
West
1/2 - 1 Mile
Higher**

FED USGS USGS40000154832

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N013W06D001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19461201	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	552
Well Hole Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground water levels, Number of Measurements:	5	Level reading date:	1963-03-07
Feet below surface:	256.00	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1962	Feet below surface:	344.5
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-09-08	Feet below surface:	312.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-11-07	Feet below surface:	236.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-06-16	Feet below surface:	229.40
Feet to sea level:	Not Reported	Note:	Not Reported

**N37
SSW
1/2 - 1 Mile
Higher**

CA WELLS CADWR8000013044

State Well #:	08N13W06Q001S	Station ID:	9521
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

**O38
SW
1/2 - 1 Mile
Higher**

CA WELLS CADWR8000013068

State Well #:	08N13W06L001S	Station ID:	9519
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

**Q39
WNW
1/2 - 1 Mile
Higher**

FED USGS USGS40000155012

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N013W31M001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19620301	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	820
Well Hole Depth Units:	ft		

Ground water levels, Number of Measurements:	3	Level reading date:	1962-08-01
Feet below surface:	358.00	Feet to sea level:	Not Reported
Note:	The site was being pumped.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1962-08	Feet below surface:	358
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-03	Feet below surface:	279
Feet to sea level:	Not Reported	Note:	The site was being pumped.

**40
NNW
1/2 - 1 Mile
Higher**

FED USGS USGS40000155089

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N013W31G001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	500
Well Hole Depth Units:	ft		

**R41
WSW
1/2 - 1 Mile
Higher**

FED USGS USGS40000149825

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N013W06E001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19520101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	457
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	13	Level reading date:	1986-02-26
Feet below surface:	283.15	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1985-03-27	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	An obstruction was encountered in the well above the water surface (no water level recorded).		

Level reading date:	1984-03-06	Feet below surface:	295.49
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1983-04-13	Feet below surface:	305.40
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1982-02-09	Feet below surface:	310.36
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-04-23	Feet below surface:	319.62
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-22	Feet below surface:	327.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-10	Feet below surface:	334.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-10	Feet below surface:	336.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-19	Feet below surface:	342.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-12	Feet below surface:	344.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-27	Feet below surface:	258.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-08-10	Feet below surface:	293.00
Feet to sea level:	Not Reported	Note:	Not Reported

**P42
West
1/2 - 1 Mile
Higher**

CA WELLS CADWR8000013149

State Well #:	08N13W06D001S	Station ID:	31122
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

**43
WNW
1/2 - 1 Mile
Higher**

CA WELLS CADWR8000013215

State Well #:	09N13W31N001S	Station ID:	30177
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

**Q44
WNW
1/2 - 1 Mile
Higher**

CA WELLS CADWR8000013254

State Well #:	09N13W31M001S	Station ID:	12269
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

R45
WSW
1/2 - 1 Mile
Higher

CA WELLS CADWR8000013119

State Well #:	08N13W06E001S	Station ID:	9515
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

S46
South
1/2 - 1 Mile
Higher

CA WELLS CADWR8000013015

State Well #:	08N13W07A002S	Station ID:	9522
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

S47
South
1/2 - 1 Mile
Higher

FED USGS USGS40000154592

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N013W07A002S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	195206	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	420
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1956-06-26
Feet below surface:	274.60	Feet to sea level:	Not Reported
Note:	Not Reported		

T48
SSW
1/2 - 1 Mile
Higher

FED USGS USGS40000154593

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N013W07B001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	496
Well Hole Depth Units:	ft		
Ground water levels,Number of Measurements:	23	Level reading date:	2004-03-29
Feet below surface:	254.06	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2003-03-24	Feet below surface:	248.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-03-26	Feet below surface:	246.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-15	Feet below surface:	236.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-03-21	Feet below surface:	237.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-03-16	Feet below surface:	240.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-03-17	Feet below surface:	238.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-03-11	Feet below surface:	244.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-04-17	Feet below surface:	249.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-04-19	Feet below surface:	244.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-04-12	Feet below surface:	251.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-04-20	Feet below surface:	250.01
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-04-14	Feet below surface:	250.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-03-19	Feet below surface:	254.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-03-12	Feet below surface:	259.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-03-20	Feet below surface:	263.97
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-03-29	Feet below surface:	267.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-02-24	Feet below surface:	269.49
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-02-26	Feet below surface:	271.13
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1985-03-26	Feet below surface:	279.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-03-06	Feet below surface:	282.64
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-18	Feet below surface:	290.83
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-01-01	Feet below surface:	270.00
Feet to sea level:	Not Reported	Note:	Not Reported

U49
SSE
1/2 - 1 Mile
Lower

CA WELLS CADWR8000013014

State Well #:	08N13W08D001S	Station ID:	31242
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

T50
SSW
1/2 - 1 Mile
Higher

CA WELLS CADWR8000013016

State Well #:	08N13W07B001S	Station ID:	31239
Well Name:	344819118175201	Well Use:	Unknown
Well Type:	Single Well	Well Depth:	496
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

U51
SSE
1/2 - 1 Mile
Lower

FED USGS USGS40000154591

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18090206
Monitor Location:	008N013W08D002S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Aquifer Type:	Not Reported
Contrib Drainage Area:	Not Reported	Well Depth:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers	Well Hole Depth:	Not Reported
Formation Type:	Not Reported		
Construction Date:	Not Reported		
Well Depth Units:	Not Reported		
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

U52
SSE
1/2 - 1 Mile
Lower

FED USGS USGS40000154590

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N013W08D001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	200
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	12	Level reading date:	1963-04-17
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The site was dry (no water level recorded).		

Level reading date:	1944-12-06	Feet below surface:	99.95
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1944-05-04	Feet below surface:	96.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1943-12-06	Feet below surface:	98.40
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1943-04-20	Feet below surface:	97.5
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1942-11-24	Feet below surface:	95.9
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1942-04-21	Feet below surface:	91.1
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1941-12-03	Feet below surface:	92.3
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1941-04-25	Feet below surface:	88.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1939-11-17	Feet below surface:	89.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1939-03-08	Feet below surface:	85.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1937-11-10	Feet below surface:	85.8
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

53
East
1/2 - 1 Mile
Lower

FED USGS USGS40000154930

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N013W32Q001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19540101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	600
Well Hole Depth Units:	ft		

54
WSW
1/2 - 1 Mile
Higher

FED USGS USGS40000154772

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N014W01H001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19571212	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	482
Well Hole Depth Units:	ft		

55
NNE
1/2 - 1 Mile
Lower

FED USGS USGS40000155125

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N013W32D001	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

56
SSE
 1/2 - 1 Mile
 Lower

CA WELLS CADWR8000013013

State Well #:	08N13W08D003S	Station ID:	9527
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

57
SSE
 1/2 - 1 Mile
 Higher

CA WELLS CADWR8000012990

State Well #:	08N13W08D004S	Station ID:	9528
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Antelope Valley	Well Completion Rpt #:	Not Reported

58
NW
 1/2 - 1 Mile
 Higher

FED USGS USGS40000155074

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N013W31E001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	500
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1963-03-21
Feet below surface:	256.93	Feet to sea level:	Not Reported
Note:	Not Reported		

U59
SSE
 1/2 - 1 Mile
 Higher

FED USGS USGS40000154559

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N013W08D004S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Construction Date:	19540101	Well Depth:	500
Well Depth Units:	ft	Well Hole Depth:	550
Well Hole Depth Units:	ft		
Ground water levels,Number of Measurements:	15	Level reading date:	1985-03-27
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The measurement was discontinued.		
Level reading date:	1985-03-26	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	An obstruction was encountered in the well above the water surface (no water level recorded).		
Level reading date:	1984-03-06	Feet below surface:	268.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-09	Feet below surface:	274.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-04-13	Feet below surface:	271.77
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-02-09	Feet below surface:	277.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-14	Feet below surface:	290.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-13	Feet below surface:	287.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-13	Feet below surface:	294.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-27	Feet below surface:	298.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-09	Feet below surface:	303.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-10	Feet below surface:	306.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-19	Feet below surface:	308.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-13	Feet below surface:	307.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-04-17	Feet below surface:	244.59
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
93536	32	1

Federal EPA Radon Zone for LOS ANGELES County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level \geq 2 pCi/L and \leq 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 93536

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.600 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

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

State Wetlands Data: Wetland Inventory

Source: Department of Fish and Wildlife

Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

California Drinking Water Quality Database

Source: Department of Public Health

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: 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

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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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 E
CREDENTIALS**

Resumes

Jennifer S. Van

Project Manager

PROFESSIONAL EXPERIENCE

Ms. Van is an Environmental Group Manager in Terracon's Orange County, California Office. She has over seven years of experience in Environmental Services; Phase I Environmental Site Assessments (ESAs), Limited Subsurface Investigations (LSIs), Spill Prevention, Control and Countermeasure Plans, Radon Measurement Provider. In addition, Ms. Van has some experience with regulatory compliance. Ms. Van assists with client and team management.

PROJECT EXPERIENCE

Environmental Site Assessment (ESAs):

Performed and managed hundreds of ESAs in California and several in Hawaii and Alaska for industrial, commercial, residential, and agricultural properties. Managed long-term national accounts for financial institutions (equity and loan portfolios), real estate investment trusts, developers and other real property owners. Understands facility operating systems; state and federal regulations; and fate and transport of chemicals through air, soil, vapor, surface water and groundwater. Is experienced in the performance of ESAs under the All Appropriate Inquiry rules (ASTM 1527-13), and meets the requirements of an Environmental Professional as defined in Section 312.10 of 40 CFR 312.

Radon Assessments

Performed and managed over 10 radon assessments including commercial and residential in California.

Limited Subsurface Investigations (LSIs):

Performed and managed over 10 LSI's in California. Investigated environmental conditions in soils and groundwater as a result of releases from a variety of sources, including service stations, dry cleaners, and a wide range of industrial and manufacturing operations. Specialized in collection and interpretation of data.

Spill Prevention, Control And Countermeasure Plans (SPCCs)

Ms. Van has experience with federal and state requirements for Spill Prevention, Control and Countermeasure Plans for Tier I and II qualified facilities.



EDUCATION

Bachelor of Science,
Environmental Sciences: Natural
Sciences.
Minor: Business Administration
University of California Riverside,
California, 2011.

Masters: Environmental Engineering
California State University, Fullerton,
2018

CERTIFICATIONS

24-Hour AHERA Asbestos
Abatement Building Inspector
40-Hour OSHA HAZWOPER
National Radon Proficiency Program
Residential Measurement Provider

WORK HISTORY

Terracon Consultants, Inc. (Tustin,
CA). Environmental Group Manager
February 2018 to Present

Terracon Consultants, Inc. (Irvine,
CA). Senior Staff Scientist
2014 to February 2018

Terracon Consultants, Inc. (Irvine,
CA). Staff Scientist
August 2011 to 2014

Resumes

Regulatory Compliance, Buena Park and Tipton, California

Project Manager for two regulatory compliance projects in Buena Park and Tipton, California, which included refrigeration and multiple dairy facilities.

Military Base Phase I ESAs and Soil Management Plans – San Diego County, California

Project Manager of ESAs and SMPs of over 100 sites for proposed telecommunication small cell locations within naval bases located within the San Diego County. Findings of the ESAs were utilized in creation of the SMPs, which was implemented at the installation of telecommunications utilities on the various bases.

Automotive Body Shop Portfolio, California

Portfolio assistant manager of environmental consulting services including Phase I ESA. The purpose of the services were to assist a client with a large acquisition of properties.

Resumes

Islam (Sami) R. Noaman, EIT

Senior Associate / Senior Project Manager

PROFESSIONAL EXPERIENCE

Mr. Noaman is an Environmental Department Manager with track record in client management, management of phases of environmental site assessments (ESAs), industrial hygiene services, business environmental risk reviews, site characterizations, regulatory compliance services, and remedial investigation. He possesses excellent analytical, problem solving, advisory, and team management skills.

PROJECT EXPERIENCE

Stormwater Prevention and Pollution Control Plan (SWPPP):

Managed SWPPP for numerous industrial sites in Southern California. Scope of the work typically included client and agency coordination, implementation of guidelines required by the state of California Water Resources Board (SWRB), and preparation of documentations for submittals to the SWRB. In addition, I have managed several limited regulatory compliance projects (annual submittals and Level 1 ERA reporting) for industrial stormwater, to achieve compliance in accordance with the NPDES general permit requirements.

Limited Subsurface Investigations (LSIs):

Performed and managed hundreds of LSIs in California, New Jersey, and New York. Investigated environmental conditions in soils and groundwater as a result of releases from a variety of sources, including service stations, dry cleaners, and a wide range of industrial and manufacturing operations. Specialized in collection and interpretation of data to pursue closure through state and federal programs including Los Angeles County Site Mitigation Unit, the California Regional Water Quality Control Board, and the Department Of Toxic Substances Control Voluntary Cleanup Programs (VCP).

Hazardous Materials Surveys:

Mr. Noaman is the Industrial Hygiene Manager in the Orange County, California office. He managed numerous hazardous materials surveys in the state of California including, but not limited to, asbestos, lead in paint, mold, pcbs, and mercury-containing equipment.



EDUCATION

Bachelor of Science,
Chemistry/Environmental Chemistry,
2002, City University of New York,
City College of New York

Pursuing Masters in Environmental
Engineering (California State
University Fullerton-expected
graduation date Spring 2019)

CERTIFICATIONS

Certified Engineer In Training (CA)
Certification No. EIT 171371
40-Hour OSHA Hazardous Waste
Operations & Emergency Response
Training Course

WORK HISTORY

Terracon Consultants, Inc. (Irvine,
CA), Environmental
Group/Department Manager, June
2012 to Present

Smith Emery GeoServices (SEG),
(Los Angeles, CA), Project
Engineer, August 2008 to June 2012

KLK Environmental Group LLC.
(Kearny, NJ). Environmental
Scientist -August 2003 to June 2008

UniChem Inc. (Kearny, NJ). Staff
Environmental Chemist - August
2002 to June 2003

Resumes

Islam (Sami) R. Noaman, EIT (continued)

Major Department Store Commercial Retail Portfolio:

Environmental team lead for evaluating environmental site conditions and due diligence review, including overseeing Phase I Environmental Site Assessments and Phase II Environmental Site Investigations for over thirty retail facilities with automotive maintenance across California. Findings from subsurface investigations were used to support regulatory closure of select facilities to facilitate a real estate transaction across the United States.

Industrial Facility – Land-use Change/Private School, Los Angeles, CA:

Environmental consulting services including Phase I Environmental Site Assessments (ESA) due diligence support, subsurface investigation activities to evaluate environmental media including soil, soil gas and indoor / outdoor air. Services included a land-use change from an industrial facility to a private school. Prepared environmental investigation reports, regulatory interaction, corrective action design for indoor air mitigation, and work plan for management of environmental media.

Retail Shopping Center – Former Dry Cleaners Facility – DTSC, Fremont, CA:

Conducted extensive site investigation activities to evaluate the magnitude and extent of chlorinated solvents identified in the vicinity of a former dry cleaners facility, including an evaluation of groundwater, soil, soil-gas and indoor vapors as a result of a chlorinated solvent plume. Project responsibilities consisted of direct support and interaction with client, client legal team and DTSC representatives to manage the closure process, including the preparation of work plans and environmental investigation reports, risk-based human health evaluation, and response actions.

Underground Storage Tank Assessment and Monitoring – West Los Angeles, CA:

Assisted property owner with the regulatory closure of former underground storage tank (UST) site located in West Los Angeles, California. The project scope included historical research of past site use and site characterization, including soil, groundwater and soil gas assessments, followed by groundwater monitoring until closure was achieved.

Automated Fuel Dispensing Facilities – Camp Pendleton, California:

Project scope included environmental and geotechnical investigations at six fueling existing/proposed facilities within Camp Pendleton, California. The project consisted of construction of new buildings, canopies, pavements, retaining walls, slopes, and installation of underground storage tanks (USTs), and other site facilities. Served as the environmental group leader.

Emerson College, Hollywood, California:

Conducted comprehensive investigation and assisted the client through enrolling and interacting with the LAFD regarding USTs found during construction activities. Provided construction management oversight to manage impacted soils and assisted the client in waste disposition, permitting and regulatory compliance interaction. A total of 45,000 cubic yards of soil was removed from the site and disposed at an off-site facility, prior to the construction of a mid-rise school complex. Support services allowed for significant savings in construction, on an expedited timeline in concert with the construction schedule.

Los Angeles Unified School District (LAUSD Sites):

Managed soil characterization for export/import soils for over nine Los Angeles Unified School District (LAUSD) sites. Prepared Sample Strategy Plans (SSP) for stockpiled and in-place soils, oversaw the sampling, and prepared soil certification reports under the supervision of a professional geologist for submittal to the LAUSD Office of Environmental Health.

Resumes

Islam (Sami) R. Noaman, EIT (continued)

Newton Plastics, Newton, NJ:

Managed the removal of two 12,000-gallon (solvents & gasoline containing) USTs from a plastic products manufacturing facility as a part of transaction deal. Project tasks included, work plan preparation, regulatory officials interface, client contact/coordination, oversight of removal activities, and report preparation. No further action letter from NJDEP was obtained for the client. The property value was retained for the client with our consulting services.

Eagle Electric, Queens, NY:

Responsibilities were to manage the cleanup of former Coal storage rooms in basement of a landmark building in Queens, NY. The cleanup activities included, hauling of approximately 425 tons of Class N-1 Hazardous materials, managed and ensured safety of eight to twelve crew, handling of waste manifests, and coordination for transportation / disposal and client interface.

AROL Chemicals, Newark, NJ:

Managed Phase I and Phase II ESA of chemical manufacturing facility. Scope of Phase II ESA included, the removal of three 12,000-gallon USTs, excavation and disposal of impacted soils.

KeySpan Energy, NY:

Responsibilities include inspection and maintenance of client boilers and tanks systems. Objectives were to prevent scaling/rusting in the boiler systems resulting from the plant operations to maintain operations efficiency. Goals were achieved for the client by developing environmentally friendly chemical reagents (pH controlled) to mitigate the concerns at the plant, boilers maintenance issues were resolved and steady business was created for the company.

The HACH Company, OH:

Implementing unique techniques producing Ferrozine - Iron- reagent for determining trace levels of iron in chemical reagents and glycols. Ferrozine can also be used to analyze samples containing magnetite (black iron oxide) or ferrites.

KIWA of The Netherlands:

Research and development of new synthetic methods of alkali Ferrates including, Potassium, Sodium, and Barium ferrates, an environmentally friendly oxidative reagents used in wastewater treatment for municipal and industrial facilities.

Resumes

Fabio M. Minervini, PG

Environmental Department Manager

PROFESSIONAL EXPERIENCE

Mr. Minervini is a Geologist (P.G.) licensed to practice in the states of California and Oregon with over 20 years of experience in environmental services. He is familiar with all aspects of the environmental industry. During his career, he has managed hundreds of investigation and remediation projects involving soil, groundwater, and soil gas issues; vapor intrusion issues from migrating impacted soil gas; and dissolved plumes, at times commingled with plumes originating at other sources. Mr. Minervini has evaluated and interpreted assessment data, as well as designed groundwater monitoring programs. His experience includes proposing and evaluating the feasibility of various remedial technologies and subsequently managed the engineering design, installation, and operation and maintenance of a variety of remedial systems. In addition, he has provided litigation support related to hydrocarbon contamination at retail fuel stations.

Mr. Minervini has interacted with a variety of regulatory agencies in California in the form of maintaining projects in compliance with agency requirements, as well as proposed work in the voluntary assistance programs on behalf of his clients.

Mr. Minervini has also been responsible for the management of non-technical duties such as conducting job interviews and hiring decisions, as well as annual performance reviews and compensation adjustments, for a team of more than 10 employees.

PROJECT EXPERIENCE

Tesoro Refining and Marketing Company, LLC

Managed the technical and financial aspects of the assessment and remediation of fuel retail sites in Orange, Riverside, and San Bernardino Counties, California (yearly revenue approximately \$1.0 million).

Atlantic Richfield Company (ARCO)

Managed the technical and financial aspects of the assessment and remediation of fuel retail sites in Orange, Riverside, and San Bernardino Counties, California (yearly revenue approximately \$1.0 million).

Atlantic Richfield Company (ARCO)

Lead Scoper (and Lead Executer after September 2008) for the Orange County Portfolio (yearly revenue approximately \$2.5 million). Managed technical and financial aspects associated with the assessment and remediation of leaking underground storage tank cases in Orange County, California.



EDUCATION

Bachelor of Science, Geology,
University of California Los Angeles,
1991

REGISTRATIONS

Professional Geologist: California,
No. 7861

Registered Geologist: Oregon,
No. G2477

CERTIFICATIONS

40-Hour HAZWOPER

Petroleum Education Council,
Certification No. 1001022451

Radiation Safety and Use of Nuclear
Gauges, Certification No. 21966

AFFILIATIONS

Western States Petroleum
Association (WSPA)

National Ground Water Association

Other Affiliations

Resumes

Fabio M. Minervini, PG (continued)

ConocoPhillips

Managed site assessment and characterization, groundwater investigation and monitoring, and site remediation for service stations impacted by petroleum hydrocarbon releases in San Mateo County, California.

Atlantic Richfield Company (ARCO)

Managed the assessment of releases from underground storage tanks, the investigation and monitoring of dissolved hydrocarbon plumes, and the remediation of ARCO Stations in the California Desert/East Los Angeles Portfolio.

California Department of General Services

Managed assessment and monitoring of dissolved petroleum hydrocarbons from leaking underground storage tanks at various sites in Merced, Santa Barbara, Riverside, and San Diego Counties, California. Obtained case closure from the Riverside County Department of Environmental Health Services for the forest fire station in Temecula, California.

Kern County General Services Division

Managed ground water monitoring and remediation of the dissolved petroleum hydrocarbons plume originated from the leak of an underground tank storing gasoline at the fire station in Bear Valley Springs, California.

Orange County District Attorney

Managed the third party technical oversight project pertaining to the legal settlements between the Orange County District Attorney Office and Atlantic Richfield Company, and Shell Oil. The role of the third party consultant was to independently review the corrective action at ARCO and Shell gas stations in Orange County, California and provide recommendations, as warranted.

UST Fund Commingled Plume Site No. 00024

Managed under the California Underground Storage Tank Reimbursement Fund Account the site assessment, remediation, and monitoring of the petroleum hydrocarbon impacted soil and ground water at the commingled plume site consisting of ARCO Station 0087 and former Unocal Station 5865 in Hawthorne, California.

Dunn-Edwards Corporation

At a property in Escondido, California, formerly a Unocal service station, managed multiple phases of investigation and characterization of petroleum hydrocarbon impacted soil and ground water.

Dunn-Edwards Corporation

At a property leased in Long Beach, California, obtained a "no further action" letter from the City of Long Beach Department of Environmental Health Services for the self-initiated site assessment related to the operation and maintenance of a 10,000-gallon underground storage tank storing paint thinner.

Resumes

Fabio M. Minervini, PG (continued)

Boeing Realty Corporation

Conducted and reported site characterization activities related to the contamination by diesel fuel at the STEVS Unit on the Boeing plant in Huntington Beach, California.

Bradmore Realty Investment Company

Conducted Phase I Investigations for real estate transactions at sites in Los Angeles County, California.

ARCO Products Company

At various service stations in Los Angeles, Orange, and San Diego Counties, California, managed the site characterization, remediation, and groundwater monitoring programs. Managed the removal and replacement of underground storage tanks, and the complete demolition of service stations. Provided technical support in litigation related to petroleum hydrocarbon contamination at service stations in Orange County, California.

Various Responsible Parties

Reviewed files related to environmental issues at various agencies in Southern California.

San Diego Naval Station

Performed investigation and risk assessment study for petroleum hydrocarbon- and metals-impacted sites in the San Diego Harbor, California.

Marine Corps Air Base

Conducted pilot-scale ground water extraction test for remediation of the dissolved-phase trichloroethylene (TCE) and tetrachloroethylene (PCE) plumes at the base in Tustin, California.

Coto de Caza, Private Residential Community

Assisted in the fixation of lead project at the gun range in Coto de Caza, California.

Allied-Signal Chemical Plant

Conducted soil-gas investigation of halogenated volatile organics plume in vadose zone at the plant in El Segundo, California.

Shell/Parsons Reservoirs

Performed two phases (floor and berms) of mitigation by soil blending, remediation by thermal desorption, and closure with low permeability cap of crude oil reservoirs at the Tosco Refinery in Carson, California (former property of Shell Oil Company). Subcontracted by The Ralph M. Parsons Company for both environmental and geotechnical activities.

Reichhold Chemical Plant

Conducted soil-gas investigation of polychlorinated biphenyls (PCBs) in the vadose zone installing multiple completion wells with dual tube air percussion Stratex rig at the plant in Azusa, California.

Resumes

Fabio M. Minervini, PG (continued)

Caltrans

Assisted in the storm water facilities retrofit evaluation for the Santa Monica Bay watershed in Los Angeles County, California.

Grayson Power Plant

Conducted HydroPunch investigation of trichloroethylene (TCE) Plume in vadose zone and ground water at the plant in Glendale, California.

Shell Offshore, Inc

Performed downhole pressure and temperature data collection, and reservoir interpretation analysis on production platform at Eugene Island Field, Block 331, Gulf of Mexico.

Conoco Oil, Inc.

Assisted in the drill stem test of multiple zones at the West Delta Field, Block 96, Gulf of Mexico.

Exxon, U.S.A.

Assisted in the perforation of multiple productive zones at the South Pass Field, Block 89, Gulf of Mexico.

Oryx Energy Company

Assisted in the flow test of the Upper Zone on the semi-submersible rig Ocean Voyager at the Mississippi Canyon Field, Block 445, Gulf of Mexico.

Leighton & Associates

Performed soil observation, sampling, and testing during mass grading and utilities installation as part of the San Joaquin Hills Transportation Corridor (Wood Canyon) Project conducted by the Mission Viejo Company in the Laguna Hills.

Meg Haile

Assistant Scientist

PROFESSIONAL EXPERIENCE

Meg is an assistant scientist in Terracon's Tustin, California office, she transferred from the Houston, Texas office in October of 2019. In the Tustin office she helps prepare Phase I Environmental Site Assessment (ESA) reports. These efforts involve field survey, interviews with property owners, Environmental Data Resource reports and file reviews at local county and city regulatory offices. As required, each ESA is prepared and finalized in accordance with new ASTM Standards. In the Houston office Meg worked within the Regulatory Compliance department. There she assisted project managers in preparation of Stormwater Pollution Prevention Plans (SWPPPs), Spill Prevention Control and Countermeasures (SPCCs), Municipal Separate Storm Sewer System permits (MS4) and Texas Department of Transportation (TXDOT) outfall mapping. She added in the field monitoring and sampling to confirm her clients were in compliance with necessary permits.

PROJECT EXPERIENCE

Solar Farm – Adelanto, California

Meg aided in the site reconnaissance of vacant land to determine if there were any recognized environmental conditions (REC) existing that needed to be identified. She helped with drafting of the Phase I ESA and research into the property to determine if there were any historical RECs.

Food Processing LECA – Vernon, California

Meg aided in the drafting of a Limited Environmental Compliance Assessment determining if the facility was in compliance and up to date with all necessary environmental permits. This included reaching to government agencies to obtain current permits and inspecting documents provided by the client to determine what corrections needed to be made.

Food Processing ESA – Vernon, California

Meg aided in the site reconnaissance of an industrial food production facility to determine if there were any recognized environmental conditions (REC) existing that needed to be identified. She helped with drafting of the Phase I ESA and research into the property to determine if there were any historical RECs.

EDUCATION

Bachelor of Science,
Wildlife and Fishery Science,
Texas A&M University, College
Station, TX

WORK HISTORY

Terracon Consultants, Inc.,
Assistant Scientist,
July 2019 – Present

Texas A&M University,
Student Researcher,
2017-2018

DBS Allergy,
Allergy Technician,
2016-2019

APPENDIX F
DESCRIPTION OF TERMS AND ACRONYMS

Description of Selected General Terms and Acronyms

Term/Acronym	Description
ACM	<p>Asbestos Containing Material. Asbestos is a naturally occurring mineral, three varieties of which (chrysotile, amosite, crocidolite) have been commonly used as fireproofing or binding agents in construction materials. Exposure to asbestos, as well as ACM, has been documented to cause lung diseases including asbestosis (scarring of the lung), lung cancer and mesothelioma (a cancer of the lung lining).</p> <p>Regulatory agencies have generally defined ACM as a material containing greater than one (1) percent asbestos, however some states (e.g. California) define ACM as materials having 0.1% asbestos. In order to define a homogenous material as non-ACM, a minimum number of samples must be collected from the material dependent upon its type and quantity. Homogenous materials defined as non-ACM must either have 1) no asbestos identified in all of its samples or 2) an identified asbestos concentration below the appropriate regulatory threshold. Asbestos concentrations are generally determined using polarized light microscopy or transmission electron microscopy. Point counting is an analytical method to statistically quantify the percentage of asbestos in a sample. The asbestos component of ACM may either be friable or non-friable. Friable materials, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure and have a higher potential for a fiber release than non-friable ACM. Non-friable ACM are materials that are firmly bound in a matrix by plastic, cement, etc. and, if handled carefully, will not become friable.</p> <p>Federal and state regulations require that either all suspect building materials be presumed ACM or that an asbestos survey be performed prior to renovation, dismantling, demolition, or other activities that may disturb potential ACM. Notifications are required prior to demolition and/or renovation activities that may impact the condition of ACM in a building. ACM removal may be required if the ACM is likely to be disturbed or damaged during the demolition or renovation. Abatement of friable or potentially friable ACM must be performed by a licensed abatement contractor in accordance with state rules and NESHAP. Additionally, OSHA regulations for work classification, worker training and worker protection will apply.</p>
AHERA	Asbestos Hazard Emergency Response Act
AST	Aboveground Storage Tanks. ASTs are generally described as storage tanks less than 10% of which are below ground (i.e., buried). Tanks located in a basement, but not buried, are also considered ASTs. Whether, and the extent to which, an AST is regulated, is determined on a case-by-case basis and depends upon tank size, its contents and the jurisdiction of its location.
BGS	Below Ground Surface
Brownfields	State and/or tribal listing of Brownfield properties addressed by Cooperative Agreement Recipients or Targeted Brownfields Assessments.
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes. BTEX are VOC components found in gasoline and commonly used as analytical indicators of a petroleum hydrocarbon release.
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (a.k.a. Superfund). CERCLA is the federal act that regulates abandoned or uncontrolled hazardous waste sites. Under this Act, joint and several liability may be imposed on potentially responsible parties for cleanup-related costs.
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System. An EPA compilation of sites having suspected or actual releases of hazardous substances to the environment. CERCLIS also contains information on site inspections, preliminary assessments and remediation of hazardous waste sites. These sites are typically reported to EPA by states and municipalities or by third parties pursuant to CERCLA Section 103.
CESQG	Conditionally Exempt Small Quantity Generators
CFR	Code of Federal Regulations

Description of Selected General Terms and Acronyms

Term/Acronym	Description
CREC	Controlled Recognized Environmental Condition is defined in ASTM E1527-13 as “a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority) , with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). A condition considered by the environmental professional to be a controlled recognized environmental condition shall be listed in the findings section of the Phase I Environmental Site Assessment report, and as a recognized environmental condition in the conclusions section of the Phase I Environmental Site Assessment report.”
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
ERNS	Emergency Response Notification System. An EPA-maintained federal database which stores information on notifications of oil discharges and hazardous substance releases in quantities greater than the applicable reportable quantity under CERCLA. ERNS is a cooperative data-sharing effort between EPA, DOT, and the National Response Center.
ESA	Environmental Site Assessment
FRP	Fiberglass Reinforced Plastic
Hazardous Substance	As defined under CERCLA, this is (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title; (C) any hazardous waste having characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (with some exclusions); (D) any toxic pollutant listed under section 1317(a) of Title 33; (E) any hazardous air pollutant listed under section 112 of the Clean Air Act; and (F) any imminently hazardous chemical substance or mixture with respect to which the EPA Administrator has taken action under section 2606 of Title 15. This term does not include petroleum, including crude oil or any fraction thereof which is not otherwise listed as a hazardous substance under subparagraphs (A) through (F) above, and the term include natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).
Hazardous Waste	This is defined as having characteristics identified or listed under section 3001 of the Solid Waste Disposal Act (with some exceptions). RCRA, as amended by the Solid Waste Disposal Act of 1980, defines this term as a “solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed.”
HREC	Historical Recognized Environmental Condition is defined in ASTM E1527-13 as “a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time of the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition.”

Description of Selected General Terms and Acronyms

Term/Acronym	Description
IC/EC	A listing of sites with institutional and/or engineering controls in place. IC 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. EC 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.
ILP	Innocent Landowner/Operator Program
LQG	Large Quantity Generators
LUST	Leaking Underground Storage Tank. This is a federal term set forth under RCRA for leaking USTs. Some states also utilize this term.
MCL	Maximum Contaminant Level. This Safe Drinking Water concept (and also used by many states as a ground water cleanup criteria) refers to the limit on drinking water contamination that determines whether a supplier can deliver water from a specific source without treatment.
MSDS	Material Safety Data Sheets. Written/printed forms prepared by chemical manufacturers, importers and employers which identify the physical and chemical traits of hazardous chemicals under OSHA's Hazard Communication Standard.
NESHAP	National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants.
NFRAP	Facilities where there is "No Further Remedial Action Planned," as more particularly described under the Records Review section of this report.
NOV	Notice of Violation. A notice of violation or similar citation issued to an entity, company or individual by a state or federal regulatory body indicating a violation of applicable rule or regulations has been identified.
NPDES	National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water.
NPL	The NPL is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program.
OSHA	Occupational Safety and Health Administration or Occupational Safety and Health Act
PACM	Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos.
PCB	Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today.
pCi/L	picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials.
PLM	Polarized Light Microscopy (see ACM section of the report, if included in the scope of services)
PST	Petroleum Storage Tank. An AST or UST that contains a petroleum product.

Description of Selected General Terms and Acronyms

Term/Acronym	Description
Radon	A radioactive gas resulting from radioactive decay of naturally-occurring radioactive materials in rocks and soils containing uranium, granite, shale, phosphate, and pitchblende. Radon concentrations are measured in picoCuries per Liter of Air. Exposure to elevated levels of radon creates a risk of lung cancer; this risk generally increases as the level of radon and the duration of exposure increases. Outdoors, radon is diluted to such low concentrations that it usually does not present a health concern. However, radon can accumulate in building basements or similar enclosed spaces to levels that can pose a risk to human health. Indoor radon concentrations depend primarily upon the building's construction, design and the concentration of radon in the underlying soil and ground water. The EPA recommended annual average indoor "action level" concentration for residential structures is 4.0 pCi/l.
RCRA	Resource Conservation and Recovery Act. Federal act regulating solid and hazardous wastes from point of generation to time of disposal ('cradle to grave'). 42 U.S.C. 6901 et seq.
RCRA Generators	The RCRA Generators database, maintained by the EPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as either large (LQG), small (SQG), or conditionally exempt (CESQG). LQG produce at least 1000 kg/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste. SQG produce 100-1000 kg/month of non-acutely hazardous waste. CESQG are those that generate less than 100 kg/month of non-acutely hazardous waste.
RCRA CORRACTS/TS Ds	The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials which are undergoing "corrective action". A "corrective action" order is issued when there is a release of hazardous waste or constituents into the environment from a RCRA facility.
RCRA Non-CORRACTS/TS Ds	The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.
RCRA Violators List	RAATS. RCRA Administrative Actions Taken. RAATS information is now contained in the RCRIS database and includes records of administrative enforcement actions against facilities for noncompliance.
RCRIS	Resource Conservation and Recovery Information System, as defined in the Records Review section of this report.
REC	Recognized Environmental Conditions are defined by ASTM E1527-13 as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to any release to the environment; 2) under conditions indicative of a release to the environment. De minimis conditions are not recognized environmental conditions."
SCL	State "CERCLIS" List (see SPL /State Priority List, below).
SPCC	Spill Prevention, Control and Countermeasures. SPCC plans are required under federal law (Clean Water Act and Oil Pollution Act) for any facility storing petroleum in tanks and/or containers of 55-gallons or more that when taken in aggregate exceed 1,320 gallons. SPCC plans are also required for facilities with underground petroleum storage tanks with capacities of over 42,000 gallons. Many states have similar spill prevention programs, which may have additional requirements.
SPL	State Priority List. State list of confirmed sites having contamination in which the state is actively involved in clean up activities or is actively pursuing potentially responsible parties for clean up. Sometimes referred to as a State "CERCLIS" List.
SQG	Small Quantity Generator
SWF/LF	State and/or Tribal database of Solid Waste/Landfill facilities. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.
TPH	Total Petroleum Hydrocarbons
TRI	Toxic Release Inventory. Routine EPA report on releases of toxic chemicals to the environment based upon information submitted by entities subject to reporting under the Emergency Planning and Community Right to Know Act.

Description of Selected General Terms and Acronyms

Term/Acronym	Description
TSCA	Toxic Substances Control Act. A federal law regulating manufacture, import, processing and distribution of chemical substances not specifically regulated by other federal laws (such as asbestos, PCBs, lead-based paint and radon). 15 U.S.C 2601 et seq.
USACE	United States Army Corps of Engineers
USC	United States Code
USGS	United States Geological Survey
USNRCS	United States Department of Agriculture-Natural Resource Conservation Service
UST	Underground Storage Tank. Most federal and state regulations, as well as ASTM E1527-13, define this as any tank, incl., underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or more beneath the surface of the ground (i.e., buried).
VCP	State and/or Tribal facilities included as Voluntary Cleanup Program sites.
VOC	Volatile Organic Compound
Wetlands	<p>Areas that are typically saturated with surface or ground water that creates an environment supportive of wetland vegetation (i.e., swamps, marshes, bogs). The <u>Corps of Engineers Wetlands Delineation Manual</u> (Technical Report Y-87-1) defines wetlands as areas inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. For an area to be considered a jurisdictional wetland, it must meet the following criteria: more than 50 percent of the dominant plant species must be categorized as Obligate, Facultative Wetland, or Facultative on lists of plant species that occur in wetlands; the soil must be hydric; and, wetland hydrology must be present.</p> <p>The federal Clean Water Act which regulates “waters of the US,” also regulates wetlands, a program jointly administered by the USACE and the EPA. Waters of the U.S. are defined as: (1) waters used in interstate or foreign commerce, including all waters subject to the ebb and flow of tides; (2) all interstate waters including interstate wetlands; (3) all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, etc., which the use, degradation, or destruction could affect interstate/ foreign commerce; (4) all impoundments of waters otherwise defined as waters of the U. S., (5) tributaries of waters identified in 1 through 4 above; (6) the territorial seas; and (7) wetlands adjacent to waters identified in 1 through 6 above. Only the USACE has the authority to make a final wetlands jurisdictional determination.</p>