

Appendix G

Phase I Environmental Site Assessment

Phase I Environmental Site Assessment

Arica and Victory Pass Solar Projects

North of Interstate 10

Aspen Project No. 3457

Desert Center, Riverside County, CA

April 30, 2020

(Revised May 7, 2020)

Terracon Project No. CB207045



Prepared for:

Aspen Environmental Group
San Francisco, California

Prepared by:

Terracon Consultants, Inc.
Colton, California

terracon.com

Terracon

Environmental



Facilities



Geotechnical



Materials

April 30, 2020 (Revised May 7, 2020)



Aspen Environmental Group
5020 Chesebro Road, Suite 200
Agora Hills, CA 91301

Attn: Ms. Emily Capello
P: (415) 696-5312
E: Ecapello@aspeneg.com


Re: Phase I Environmental Site Assessment
Arica and Victory Pass Solar Projects
North of Interstate 10
Aspen Project No. 3457
Desert Center, Riverside County, California
Terracon Project No. CB207045

Dear Ms. Capello:


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 Aspen Environmental Group's Purchase Order No. 3354-05, dated April 9, 2020, and Terracon's proposal, dated March 18, 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.


Thomas C. Johnson
Field Geologist


Carl A. Parten
Senior Principal / Office Manager III


Todd G. McFarland, PG #7685, CHG #979
Senior Geologist / Department Manager I

Attachments

Terracon Consultants Inc. 1355 E Cooley Dr, Ste C Colton, CA 92324-3954

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EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was performed in accordance with Aspen Environmental Group's Purchase Order No. 3354-05, dated April 9, 2020, and Terracon's proposal, dated March 18, 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 Carl A. Parten, Environmental Professional. Thomas C. Johnson performed the site reconnaissance on April 22, 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 north of Interstate 10 in Desert Center, Riverside County, California, and consists of an approximately 3,975-acre tract of land, described by Riverside County Assessor parcel numbers (APNs): 811-160-066, 811-160-014, 811-190-011, 811-190-012, 810-110-014, 811-211-002, 811-190-015, and 811-231-006. At the time of the site reconnaissance, the site consisted of partially developed land with transmission lines and unpaved service roads, and was unoccupied at the time of site reconnaissance.

Historical Information

The site consisted of vacant land with apparent dirt roads on the central and northern portion from at least 1944 to 1963, when transmission lines were developed on the central portion of the site. By 1975, a borrow pit was visible on the southwestern portion of the southern tract for the likely purpose of providing fill dirt for the development of Interstate 10 to the adjacent south. By 1984, an apparent stormwater diversion dirt mound was developed along the northwest boundary of the northern tract, for the likely purpose of diverting stormwater runoff from the agricultural land on the adjoining property. By 1996, the existing crop trimming piles became visible along the northwest boundary northern tract, adjacent to the stormwater diversion dirt mound, and the site has remained relatively unchanged through the present.

The adjoining properties consisted of vacant land with apparent dirt roads on the northern, eastern, and western adjoining properties, and U.S. Highway 60 on the southern adjoining property from at least 1944 to 1963, when transmission lines were developed on the eastern and western adjoining properties. By 1975, U.S. Highway 60 was redeveloped into Interstate 10 on the adjoining properties to the south, and by 1986, agricultural land and the existing irrigation water well were developed on the northwest adjoining property of the northern tract. By 1996, the existing agricultural land and irrigation wells were developed on the adjoining properties to the

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east and south of the northern tract, and by 2012, the Red Bluff electrical substation was developed on the adjoining property to the southwest of the southern tract. The adjoining properties have remained relatively unchanged through the present. Indication of recognized environmental conditions (RECs) were not identified in connection with the site.

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 listed in the regulatory databases. 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 stormwater control mound, irrigation piping and air-release valve protruding from the ground, approximately 30 piles of crop trimmings, two piles of discarded Polyvinyl chloride (PVC) irrigation piping, two transmission cable spools, one concrete slab/foundation, miscellaneous trash, one borrow pit and associated excavations, and transmission lines and associated service roads. Indication of RECs in connection with the site were not identified.

Adjoining Properties

The adjoining property along the northwest boundary of the northern tract consists of former agricultural land with a non-operational irrigation water well, and the northern adjoining properties consist of vacant undeveloped desert scrubland. The eastern adjoining properties consist of palm tree groves and associated irrigation pond and water wells, and vacant undeveloped desert scrubland. The irrigation water well on the eastern adjoining property was pumped by an apparent diesel motor on secondary containment with *de minimis* staining, with a secondary containment area likely used to store a former AST adjacent to the motor/pump. The irrigation water well area on the southwestern adjoining property contained a 55-gallon drum of Valvoline Premium Motor Oil on secondary containment with *de minimis* staining. Vacant undeveloped desert scrubland and Interstate 10 abut the site to the south, as well as a newly developed palm tree grove on the southern adjoining property of the southern tract. The western adjoining properties consist of vacant land with transmission lines and associated service roads. RECs were not identified on the adjoining properties in connection with the site.

Significant Data Gaps

Significant data gaps were not identified.

Conclusions

We have performed a Phase I ESA consistent with the procedures included in ASTM Practice E 1527-13 at North of Interstate 10, Desert Center, Riverside County, California, the site.

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Recognized Environmental Conditions (RECs), Historical Recognized Environmental Conditions (HRECs), and 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 did not identify RECs, HRECs, or CRECs. As such, no additional investigation is warranted at this time.

1.0 INTRODUCTION

1.1 Site Description

Site Name	Arica and Victory Pass Solar Projects
Site Location/Address	North of Interstate 10, Desert Center, Riverside County, California
Land Area	Approximately 3,975-acres
Site Improvements	Transmission lines and dirt service roads
Anticipated Future Site Use	Redevelopment for commercial use
Purpose of the ESA	Development of the site

The location of the site is depicted on Exhibit 1 of Appendix A, which was reproduced from a portion of the USGS Corn Spring, California 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 Aspen Environmental Group's Purchase Order No. 3354-05 dated April 9, 2020, and Terracon's proposal dated March 18, 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

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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, responses for records requests were not received for the following agencies:

- Santa Ana Regional Water Quality Control Board

Based on a review of the available documents and site history, the lack of responses for these agencies do not appear to be significant data gaps.

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

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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 Aspen Environmental Group. Use or reliance by any other party is prohibited without the written authorization of Aspen Environmental Group 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 for Services. The limitation of liability defined in the Agreement for Services 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, Aarty Joshi, client's representative, was asked to provide the following user questionnaire information as described in ASTM E1527-13 Section 6.

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**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 760 to 480 feet above sea level	See Exhibit 1 in Appendix A – Corn Spring, California (2012) USGS Topographic Map Google Map Data (2020), www.google.com/maps
Topographic Gradient	Very gently sloping toward the northeast	
Closest Surface Water	Unnamed irrigation pond, approximately 1,300 feet to the east of the site.	
Soil Characteristics		
Soil Type	Cherioni very gravelly sandy loam	United States Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS); (2019). https://soilseries.sc.egov.usda.gov/
Description	Very shallow and shallow to hardpan and bedrock, somewhat excessively drained soils in slope alluvium on volcanic bedrock. Soils have medium to rapid runoff, with moderate permeability.	
Geology/Hydrogeology		

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Physical Setting Information		Source
Formation	Quaternary alluvium (Qal)	Mineral Resource Potential of the Chuckwalla Mountains Wilderness Study Area, Riverside County, California (Powell R. E., Watts K.C. et al.) Dated 2004 https://ngmdb.usgs.gov/mapview/
	Granitic Rocks (KJg)	
Description	Qal - Alluvial silt, sand, gravel and conglomerate derived from adjacent higher ground.	
	KJg - Granitic rocks of Cretaceous or Jurassic period.	
Estimated Depth to First Occurrence of Groundwater	<u>Site</u> : Unknown, no data. <u>Vicinity</u> : Approximately 120 feet below ground surface (bgs) measured in a supply well mapped approximately 3.8 miles northwest of the site (last measured February 1985).	California Department of Water Resources, Water Data Library Well ID: 337797N1153344W001 http://wdl.water.ca.gov/waterdatalibrary/groundwater/
*Hydrogeologic Gradient	Not known - may be inferred to be parallel to topographic gradient (primarily to the northeast).	

* 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 5-year intervals) and historical fire insurance maps produced by the Sanborn Map Company were reviewed (if available) to evaluate land development and obtain information concerning the history of development on and near the site. Reviewed historical topographic maps, aerial photographs and Sanborn maps 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 map:

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- Chuckwalla Mountains, California, photo revised in 1944 from **1940** aerial photographs and photo revised in 1963 from **1956** aerial photographs (1:62,500)
- Chuckwalla Mountains, California, published in **1947** and **2002** (1:50,000)
- Corn Springs, California, photo revised in 1986 from **1984** aerial photographs and published in **2012** (1:24,000)
- Aerial photograph:
 - USGS, **1948** and **1975** 1" = 1,000'
 - USDA, **1953**, **1984**, and **2002** 1" = 1,000'
 - USGS/DOQQ, **1996** 1" = 1,000'
 - USDA/NAIP, **2005**, **2009**, **2012**, and **2016**, 1" = 1,000'

Historical Maps and Aerial Photographs

Direction	Description
Site	Vacant land with apparent dirt roads on central and northern portions (1944); transmission lines developed on central portion of site (1963); borrow pit developed on southwest portion of southern tract (1975); stormwater control mound developed on western portion of northern tract and land graded along eastern boundary (1984); crop trimming piles along the western boundary of the northern tract (1996); site relatively unchanged (1996-2016).
North	Vacant land with apparent dirt roads (1944); water well and crops developed adjacent to northern tract (1986); adjoining properties relatively unchanged (1986-2016).
East	Vacant land with apparent dirt roads (1944); water well and transmission lines developed (1963); land graded (1984); land developed for agricultural use and well house constructed along eastern boundary (1996); additional agricultural land developed (2009); land relatively unchanged (2009-2016).
South	Vacant land followed by U.S. Highway 60 (1944); borrow pit developed (1975); Highway 60 redeveloped into Interstate 10 (1975); electrical substation developed to the southwest (2012); transmission lines associated with substation developed (2016).
West	Vacant land with apparent dirt roads (1944); transmission lines developed (1963); adjoining properties relatively unchanged (1963-2016).

3.2 Historical City Directories

The Haines Criss-Cross city directories used in this study were made available through EDR (selected years reviewed: 1971-2017) and were reviewed at approximate five-year intervals, if readily available. City directories not available prior to 1971. The current street address for the site was identified as North of Interstate 10.

Historical City Directories

Direction	Description
Site	No address reported

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Direction	Description
North	No address reported
East	No address reported
South	No address reported
West	No address reported

3.3 Site Ownership

Based on a review of information obtained from the Riverside County assessor's records, the current site owner is USA 810 and USA 811. No previous owners were identified.

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 individuals were interviewed regarding the current and historical use of the site.

Interviews

Interviewer	Name	Title	Date/Time
Thomas C. Johnson	Miriam Liberatore / mliberat@blm.gov	Project Manager	May 6, 2020 / 2:05 pm

Terracon interviewed Ms. Miriam Liberatore, Project Manager for the Bureau of Land Management (BLM), via email. Ms. Liberatore indicated that she has been familiar with the site for approximately one year as a BLM Project Manager. Ms. Liberatore stated that the current site use is undeveloped land, and that the site owner is currently the United States.

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 the depth to the soil/bedrock interface. 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
CERCLIS	Comprehensive Environmental Response, Compensation, & Liability Information System	0.5	0
CERCLIS / NFRAP	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
NPL (Delisted)	National Priorities Delisted List	0.5	0
RCRA CORRACTS/ TSD	RCRA Corrective Action Activity	1	0

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Database	Description	Distance (miles)	Listings
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
CALSITES (AWP)	Active Annual Workplan Sites	1	0
CIWQS	California Integrated Water Quality System	Site	2
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

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.

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
US Solar Desert Center II Phase I (Desert Center)	Adjoining (approximately 1,300 ft.) / Southeast / Cross-gradient	CIWQS	No, based on distance and regulatory review
US Solar Desert Center II Phase II (Desert Center)	Adjoining (approximately 1,300 ft.) / Southeast / Cross-gradient	CIWQS	No, based on distance and regulatory review

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.

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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 two facilities in the 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
Riverside County Department of Environmental Health (DEH)/ Email: DEHRecordsMgmt@rivco.org	According to Records Management for DEH, the Hazardous Materials Management Division is unable to provide information about sites based on APN's or similar geographic site data.
South Coast Air Quality Management District (SCAQMD) / online portal: http://www.aqmd.gov/nav/online-services/public-records	According to Colleen Paine, Public Records Coordinator for AQMD, no records were found associated with the site, because they are unable to search database using APNs.
Santa Ana Regional Water Quality Control Board (RWQCB) / Email: filereview8@waterboards.ca.gov	At the issuance of this report, a response from SARWQCB had not been received.
Department of Toxic Substances Control (DTSC) / Email: pubreqact@dtsc.ca.gov DTSC's Hazardous Waste Tracking System (HWTS) website, http://hwts.dtsc.ca.gov/report_search DTSC online EnvironStor Database, www.environstor.dtsc.ca.gov	According to Ruth J. Saroian, Public Records Coordinator for DTSC, no records were found associated with the site, because they are unable to search database using APNs. Additionally, based on a review of the DTSC online HWTS and EnvironStor databases, no records were found associated with the site.

4.3 Local Area Knowledge

Based on a review of the California Geologic Energy management Division (CalGEM), <https://www.conservation.ca.gov/calgem>, there are no active or plugged oil production wells located at the site or adjoining properties.

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

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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	Thomas C. Johnson
Reconnaissance Date	April 22, 2020
Weather Conditions	Sunny / 93°
Site Contact/Title	Emily Capello / Senior Associate (Aspen Environmental)

Site Utilities	
Drinking Water	N/A
Wastewater	N/A
Electric	N/A
Natural Gas	N/A

5.2 Overview of Current Site Occupants and Operations

The site is located north of Interstate 10 in Desert Center, Riverside County, California, and consists of an approximately 3,975-acre tract of land, described by Riverside County Assessor parcel numbers (APNs): 811-160-066, 811-160-014, 811-190-011, 811-190-012, 810-110-014, 811-211-002, 811-190-015, and 811-231-006. At the time of the site reconnaissance, the site consisted of partially developed land with transmission lines and unpaved service roads, and was occupied by employees of Southern California Edison and Ironwood Consulting.

5.3 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

Arica and Victory Pass Solar Projects ■ Desert Center, CA

April 30, 2020 (Revised May 7, 2020) ■ Terracon Project No. CB207045



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	X
Aboveground Chemical or Waste Storage	Aboveground storage tanks	
	Drums, barrels and/or containers ≥ 5 gallons	
	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	X
	Interior floor drains	
Electrical Transformers/PCBs	Transformers and/or capacitors	
	Other equipment	

Phase I Environmental Site Assessment

Arica and Victory Pass Solar Projects ■ Desert Center, CA
April 30, 2020 (Revised May 7, 2020) ■ Terracon Project No. CB207045



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	X
	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	X
	Wastewater lagoons	
	Wells	

Site Operations, Processes, and Equipment

Other processes or equipment

The following processes or equipment was observed on site during the site reconnaissance:

- Poly-vinyl chloride (PVC) piping associated with agricultural activities and an irrigation piping air-release valve was observed protruding from the ground near the southeastern boundary of the southern tract and along the western boundary of the northern tract during the site reconnaissance. Staining and/or releases were/were not observed in the vicinity of protruding PVC piping or air-release valve during the site reconnaissance. Based on visual observations, the protruding PVC piping and irrigation air-release valve do not constitute a REC in connection with the site.
- Two large spools containing transmission cables were observed along the service road located on the eastern portion of the northern tract of the site during the site reconnaissance. Leakage, spills or other releases from these materials were not observed during the visual reconnaissance, and the materials did not appear to be hazardous in nature. Based on visual observations, the transmission cable spools do not represent a REC to the site.
- A stormwater diversion mound was observed along the western boundary of the northern tract during the site reconnaissance. Based upon visual surface observations, the mound consisted of native dirt, and no evidence of chemical

Phase I Environmental Site Assessment

Arica and Victory Pass Solar Projects ■ Desert Center, CA
April 30, 2020 (Revised May 7, 2020) ■ Terracon Project No. CB207045



waste, noxious odors, or other indications of releases were observed near the vicinity of the diversion mound. Based on visual observations, the diversion mound does not constitute a REC to the site.

Underground Chemical or Waste Storage, Drainage or Collection Systems

Pipeline markers

Pipeline/utility markers were observed on the central portion of the site, at the crossroads between the two transmission line service roads. Associated labeling indicated that the pipeline contained buried fiber optic cables and was owned by ATC Communications.

Releases or Potential Releases

Trash, debris and/or other waste materials

At the time of the site reconnaissance minor amounts of household trash (plastic shopping bags, food wrappers, paper drinking cups, tires, and alcohol bottles) were observed on the ground throughout the site. Chemicals/hazardous materials, noxious odors, staining or indications of releases were not observed around the household trash at the time of the reconnaissance. Based on visual site observations the household trash does not appear to represent a REC to the site at this time.

Additionally, trash associated with the former borrow pit operations (glass, screws, drum lids, and cables) was observed near the southwest portion of the southern tract of the site during the site reconnaissance. Chemicals/hazardous materials, noxious odors, staining or indications of releases were not observed around the borrow pit at the time of the reconnaissance. Based on visual site observations, the borrow pit trash does not appear to represent a REC to the site at this time.

Dumping or disposal areas

Approximately 30 piles of crop trimmings ranging in size up to 250 square-ft, two piles of PVC irrigation piping, and a 30x15 ft. pile of irrigation hoses were observed along the western boundary of the northern tract, adjacent to the former agricultural use area, during the site reconnaissance. Leakage, spills or other releases from these materials were not observed during the visual reconnaissance. The debris materials did not appear to be hazardous in nature; however, they should be removed and disposed in accordance with local and state regulations. Based on visual observations, the discarded crop trimmings, PVC irrigation piping, and irrigation hoses do not appear to represent a REC to the site.

Other Notable Site Features

Quarries or pits

A borrow pit was observed near the southwest portion of the southern tract, adjacent to Interstate 10, during the site reconnaissance. The size of this area was approximately 120-acres and included remnants of a concrete slab/foundation located on the eastern portion, and multiple

excavations on the western portion of the pit. This area was not currently being excavated, and water was not observed in this area during the site reconnaissance. Aerial photographs and information from topographic maps suggest the borrow pit was developed by 1975, for the likely purpose of providing fill dirt for the development Interstate 10. Chemicals/hazardous materials, noxious odors, staining or indications of releases were not observed around the borrow pit during the site reconnaissance. Based on visual observations, the borrow pit does not appear to represent a REC in connection with the site.

6.0 ADJOINING PROPERTY RECONNAISSANCE

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

Adjoining Properties

Direction	Description
North	Former agricultural land followed by vacant undeveloped desert scrubland.
East	Palm tree groves, two irrigation wells, and one irrigation pond, followed by vacant undeveloped desert scrubland.
South	Vacant undeveloped desert scrubland followed by Interstate 10.
West	Two transmission lines and associated service roads and vacant undeveloped desert scrubland.

During the site reconnaissance, three irrigation water wells were observed on the northwestern, eastern, and southwest adjoining properties. The irrigation water well on the eastern adjoining property was pumped by an apparent diesel motor on secondary containment with *de minimis* staining, with a secondary containment area likely used to store a former AST adjacent to the motor/pump. The irrigation water well area on the southwest adjoining property contained a 55-gallon drum of Valvoline Premium Motor Oil on secondary containment with *de minimis* staining. The irrigation water well on the northwest adjoining property appeared non-operational and with no associated equipment. No indications of RECs were identified on the adjoining properties in connection with the site.

7.0 ADDITIONAL SERVICES

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

Phase I Environmental Site Assessment

Arica and Victory Pass Solar Projects ■ Desert Center, CA

April 30, 2020 (Revised May 7, 2020) ■ Terracon Project No. CB207045



8.0 DECLARATION

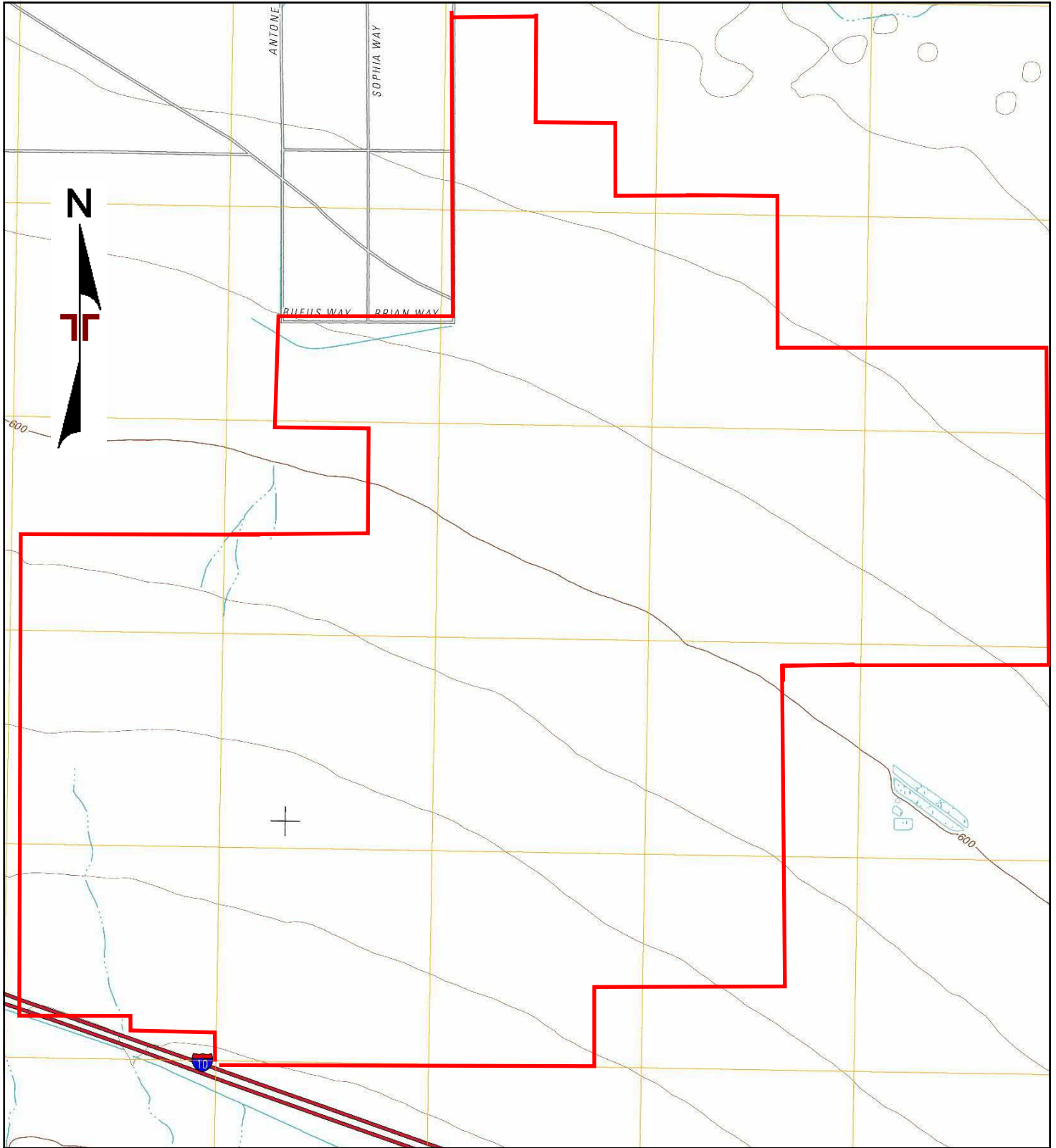
I, Carl A. Parten, declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312; and I have the specific qualifications based on education, training, and experience to assess a property of the nature, 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 "Carl A. Parten", written over a horizontal line.

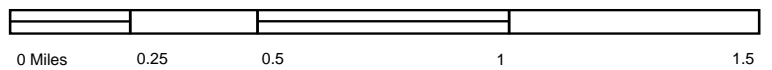
Carl A. Parten

Senior Principal / Office Manager III

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



TP, Corn Spring, 2012, 7.5-minute



Project Manager:
TGM

Drawn by:
TCJ

Checked by:
TGM

Approved by:
CAP

Project No.
CB207045

Scale:
As Shown

File Name:
N/A

Date:
2012

Terracon

1355 E Cooley Drive, Suite C
Colton, CA 92324

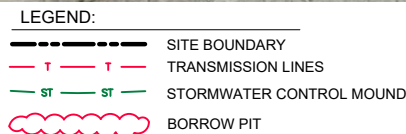
2012 TOPOGRAPHIC MAP

Arica and Victory Pass Solar Projects

North of Interstate 10
Desert Center, Riverside County, CA 92239

APPENDIX

1



NOTE: BORING LOCATIONS ARE APPROXIMATE.

Project Mngnr:	TCJ	Project No.	CB207045
Drawn By:	DG	Scale:	AS SHOWN
Checked By:	TCJ	Date:	04/29/20
Approved By:	CAP		

SITE DIAGRAM

ARICA AND VICTORY PASS SOLAR PROJECTS
INTERSTATE HIGHWAY 10
DESERT CENTER, RIVERSIDE COUNTY, CALIFORNIA

EXHIBIT

2

APPENDIX B
SITE PHOTOGRAPHS



Photo #1 Northwest facing view of the site from the borrow pit area.



Photo #2 South facing view of the site from the northern site boundary.



Photo #3 East facing view of the site and transmission line service road from the western site boundary of the southern tract.



Photo #4 Northwest facing view of the site and transmission line service road from the eastern site boundary of the southern tract.



Photo #5 Typical view of a newly installed utility pole on the central portion of the site.



Photo #6 View of a transmission cable spool (one of two) located on the eastern portion of the northern tract.



Photo #7 Typical view of miscellaneous household trash located throughout the site.



Photo #8 North facing view pvc irrigation piping protruding from the ground located along the southwestern portion of the southern tract.



Photo #9 South facing view of the concrete slab/foundation located in the borrow pit area.



Photo #10 Cable line and drum lid trash located in the borrow pit area.



Photo #11 55-gallon drum lever lock located in the borrow pit area.



Photo #12 North facing view of the large excavation pit located in the borrow pit area.



Photo #13 South facing view of an additional excavation pit (one of approximately four) located in the borrow pit area.



Photo #14 Discarded tire located along the west-central boundary of the southern tract.



Photo #15 Irrigation piping air-release valve located along the western boundary of the northern tract.



Photo #16 East facing view of the crop trimming piles located along the western site boundary of the northern tract.



Photo #17 Northwest facing view of the stormwater diversion mound located along the western boundary of the northern tract.



Photo #18 North facing view of the pvc irrigation piping pile located along the western boundary of the northern tract.



Photo #19 View of the irrigation hose pile located along the western boundary of the northern tract.



Photo #20 Southeast facing view of the fiber optic cable pipeline utility marker located at the transmission line crossroads.



Photo #21 View of the northern adjoining property from the site boundary of the northern tract.



Photo #22 View of the eastern adjoining property from the site boundary of the northern tract.



Photo #23 South facing view of the eastern site boundary of the northern tract.



Photo #24 View of the irrigation water well and suspected location of a former AST on the eastern adjoining property.



Photo #25 North facing view of the eastern site boundary of the northern tract, from adjacent to the off-site water well.



Photo #26 West facing view of the southern site boundary of the northern tract, from adjacent to the off-site water well.



Photo #27 South facing view of the off-site irrigation water well and 55-gallon drum located east of the southern tract.



Photo #28 Northeast facing view of the eastern adjoining property from the eastern boundary of the southern tract.



Photo #29 West facing view along the southern site boundary of the southern tract, from the southeastern corner of the site.



Photo #30 North facing view along the eastern site boundary of the southern tract, from the southeastern corner of the site.



Photo #31 View of the eastern adjoining property from the southern boundary of the southern tract.



Photo #32 East facing view of the southern site boundary from near the borrow pit area.



Photo #33 View of the southern adjoining property from the southern site boundary of the southern tract.



Photo #34 West facing view of the southern site boundary from the borrow pit area.



Photo #35 South facing view of the western site boundary from the southwest portion of the southern tract.



Photo #36 View of the western adjoining property from the southwest portion of the southern tract.



Photo #37 North facing view of the western site boundary from the southwest portion of the southern tract.



Photo #38 North facing view of the western site boundary from the service road on the western boundary of the southern tract.



Photo #39 Northwest facing view of the northern northwest adjoining property from the service road on the north portion of the southern tract.



Photo #40 South facing view of the western site boundary from the western portion of the northern tract, adjacent to the off-site well.




Photo #41 View of the off-site irrigation well located on the northwestern adjoining property of the northern tract.



Photo #42 View of the northwestern adjoining property (former agricultural land) from the western site boundary of the northern tract.

APPENDIX C
HISTORICAL DOCUMENTATION AND USER QUESTIONNAIRE



Arica and Victory Pass Solar Projects
North of Interstate 10
Desert Center, Riverside County, CA 92239

Inquiry Number: 6042100.4

April 16, 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

04/16/20

Site Name:

Arica and Victory Pass
North of Interstate 10
Desert Center, CA 92239
EDR Inquiry # 6042100.4

Client Name:

Terracon Consultants, Inc.
1355 E Cooley Drive, Suite C
Colton, CA 92324
Contact: Thomas Johnson



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Terracon Consultants, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. 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:	33.718724 33° 43' 7" North
Project:	CB207045	Longitude:	-115.279412 -115° 16' 46" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	659423.63
		UTM Y Meters:	3732298.41
		Elevation:	602.22' above sea level

Maps Provided:

2012
2002
1986
1963
1947
1944

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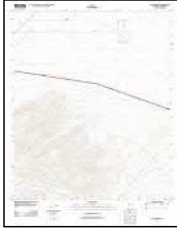
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Topo Sheet Key

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

2012 Source Sheets



Corn Spring
2012
7.5-minute, 24000

2002 Source Sheets



Chuckwalla Mountains
2002
15-minute, 50000

1986 Source Sheets



Corn Spring
1986
7.5-minute, 24000
Aerial Photo Revised 1984

1963 Source Sheets



Chuckwalla Mountains
1963
15-minute, 62500
Aerial Photo Revised 1956

Topo Sheet Key

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

1947 Source Sheets

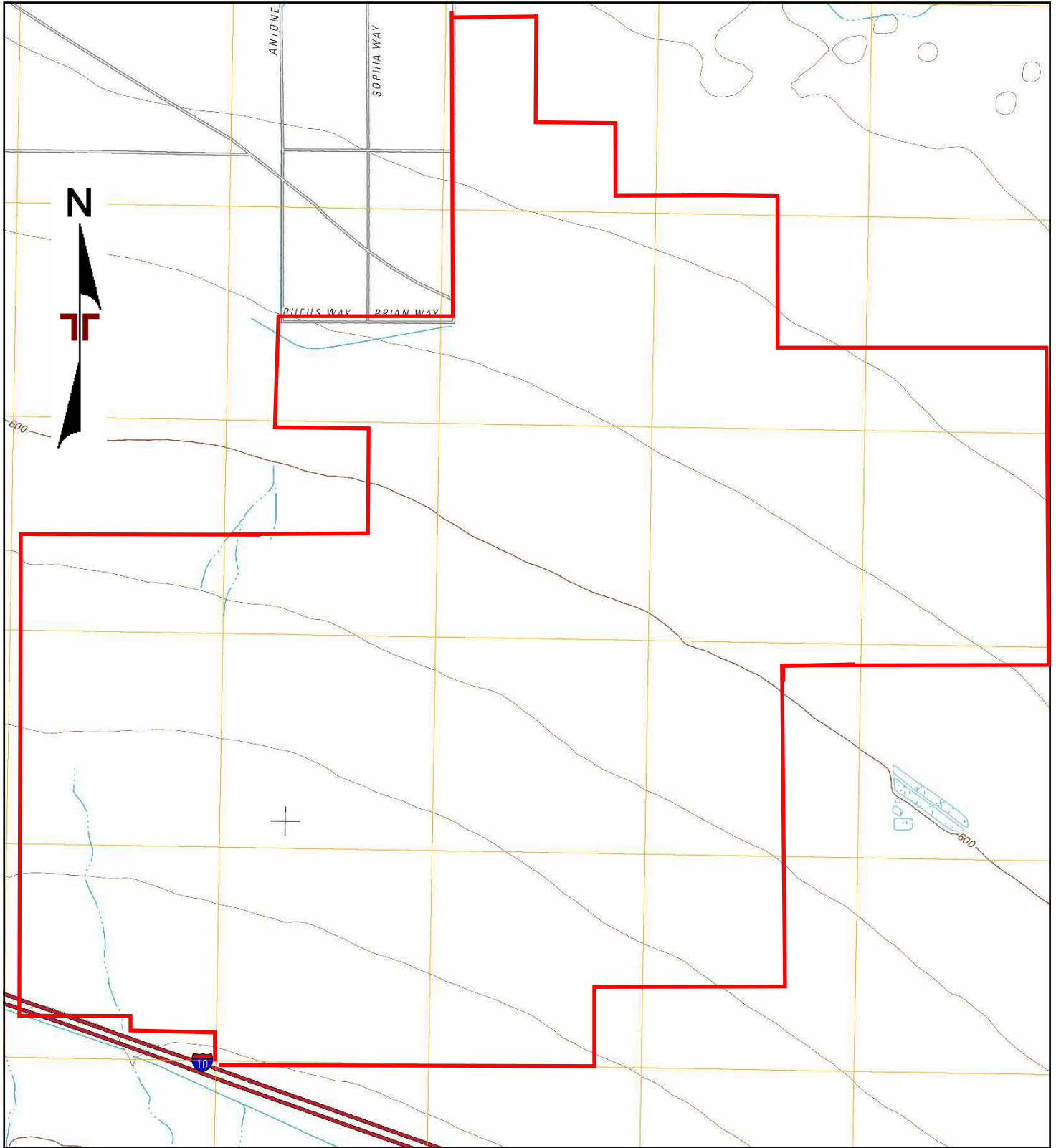


CHUCKWALLA MOUNTAINS
1947
15-minute, 50000

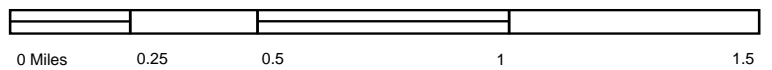
1944 Source Sheets



Chuckwalla Mountains
1944
15-minute, 62500
Aerial Photo Revised 1940



TP, Corn Spring, 2012, 7.5-minute



Project Manager:	TGM
Drawn by:	TCJ
Checked by:	TGM
Approved by:	CAP

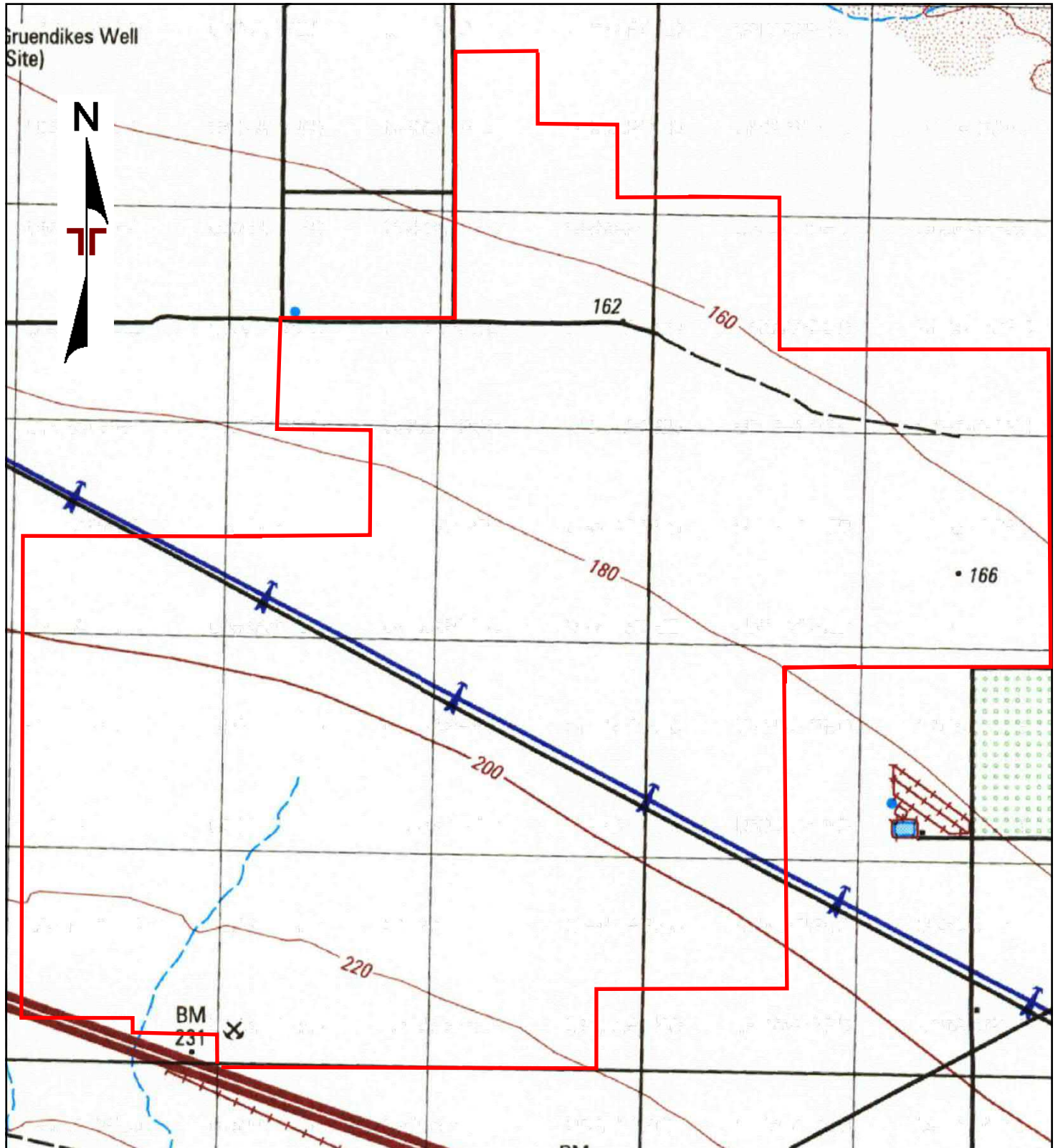
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File Name:	N/A
Date:	2012

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 Colton, CA 92324

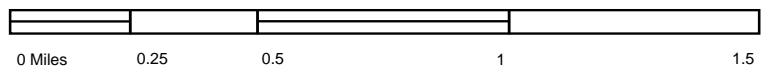
2012 TOPOGRAPHIC MAP
Arica and Victory Pass Solar Projects
 North of Interstate 10
 Desert Center, Riverside County, CA 92239

Appendix

C



TP, Chuckwalla Mountains, 2002, 15-minute



Project Manager:	TGM
Drawn by:	TCJ
Checked by:	TGM
Approved by:	CAP

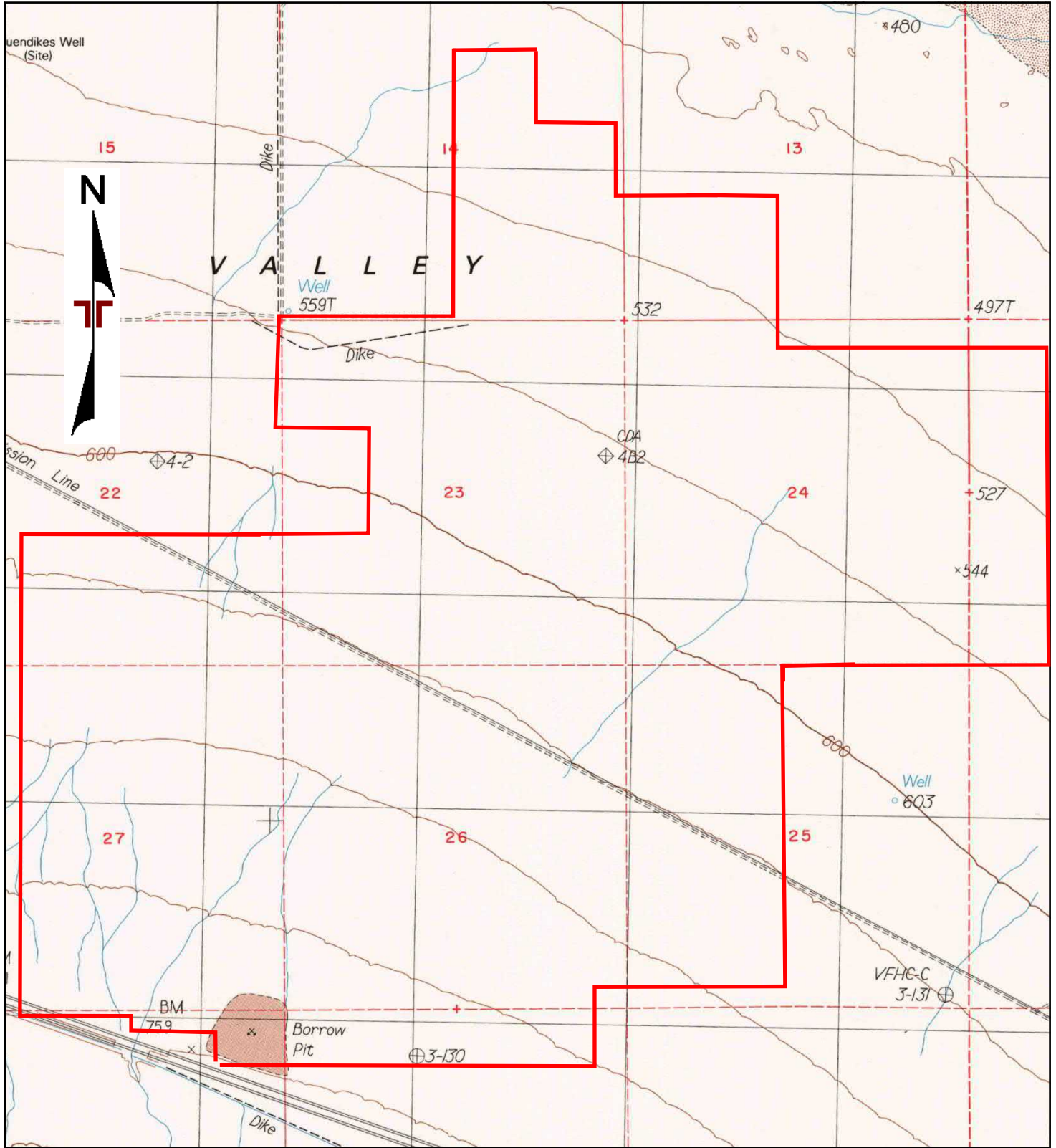
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Date:	2002

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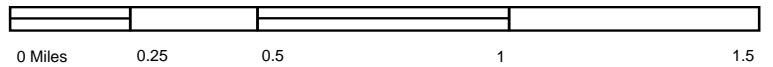
2002 TOPOGRAPHIC MAP
 Arica and Victory Pass Solar Projects
 North of Interstate 10
 Desert Center, Riverside County, CA 92239

Appendix

C



TP, Corn Spring, 1986, 7.5-minute



Project Manager:	Project No.
TGM	CB207045
Drawn by:	Scale:
TCJ	As Shown
Checked by:	File Name:
TGM	N/A
Approved by:	Date:
CAP	1986

Terracon

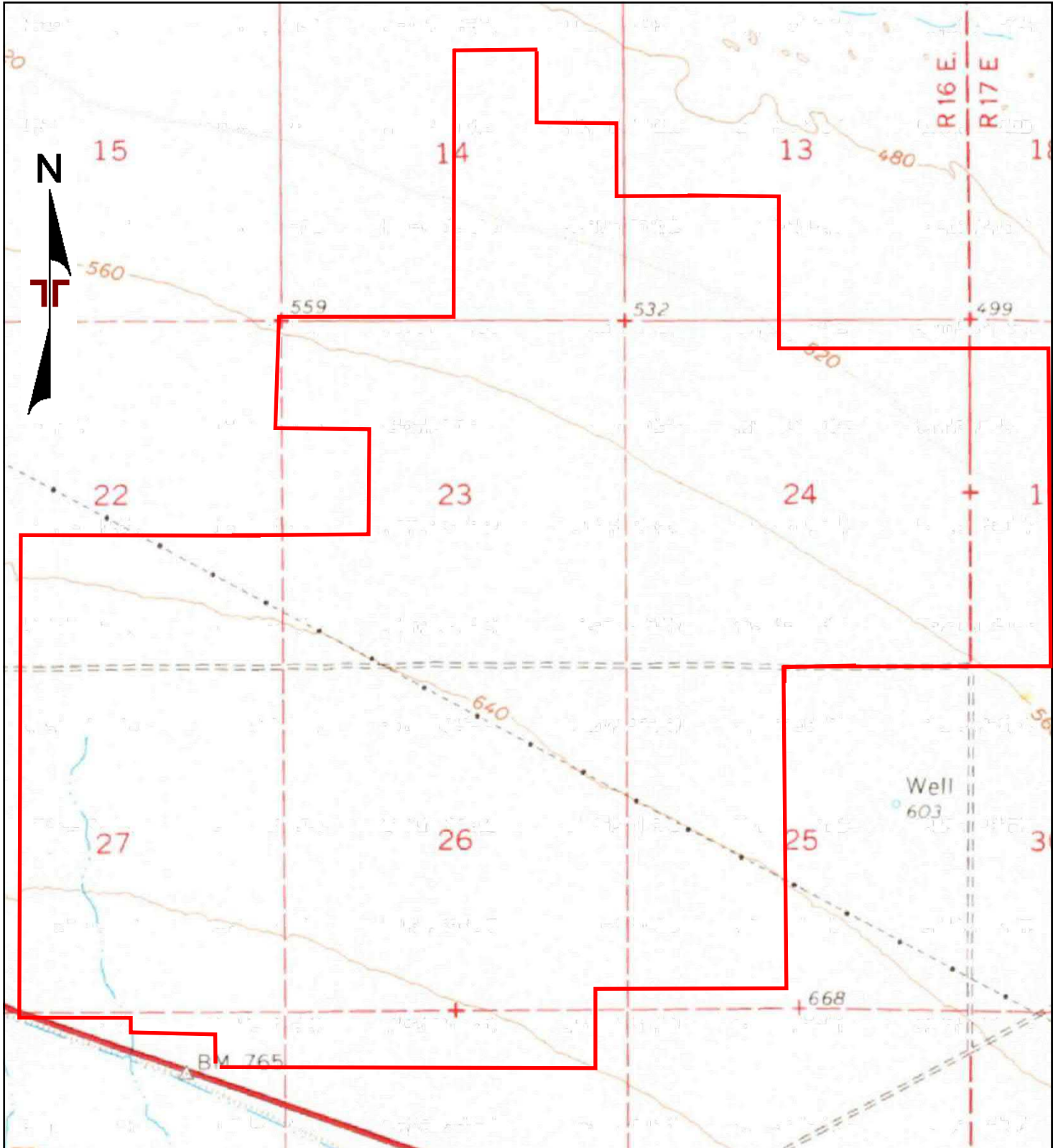
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Colton, CA 92324

1986 TOPOGRAPHIC MAP

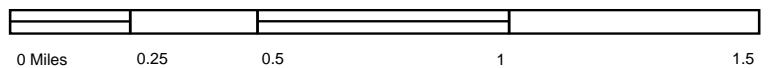
Arica and Victory Pass Solar Projects
North of Interstate 10
Desert Center, Riverside County, CA 92239

Appendix

C



TP, Chuckwalla Mountains, 1963, 15-minute



Project Manager:	TGM
Drawn by:	TCJ
Checked by:	TGM
Approved by:	CAP

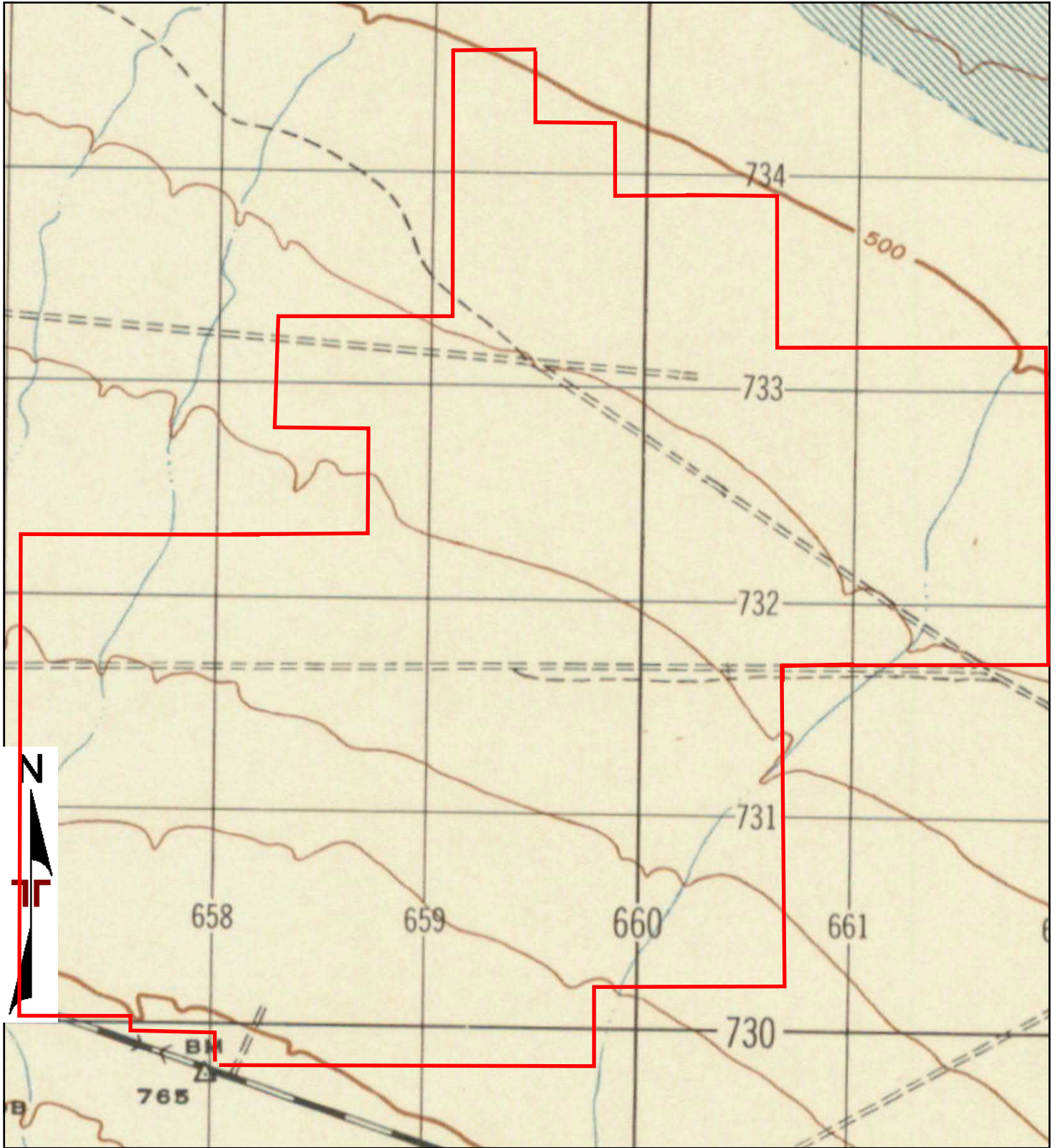
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File Name:	N/A
Date:	1963

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Colton, CA 92324

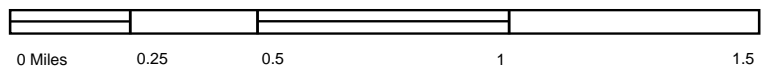
1963 TOPOGRAPHIC MAP
Arica and Victory Pass Solar Projects
North of Interstate 10
Desert Center, Riverside County, CA 92239

Appendix

C



TP, CHUCKWALLA MOUNTAINS, 1947, 15-minute



Project Manager:	TGM
Drawn by:	TCJ
Checked by:	TGM
Approved by:	CAP

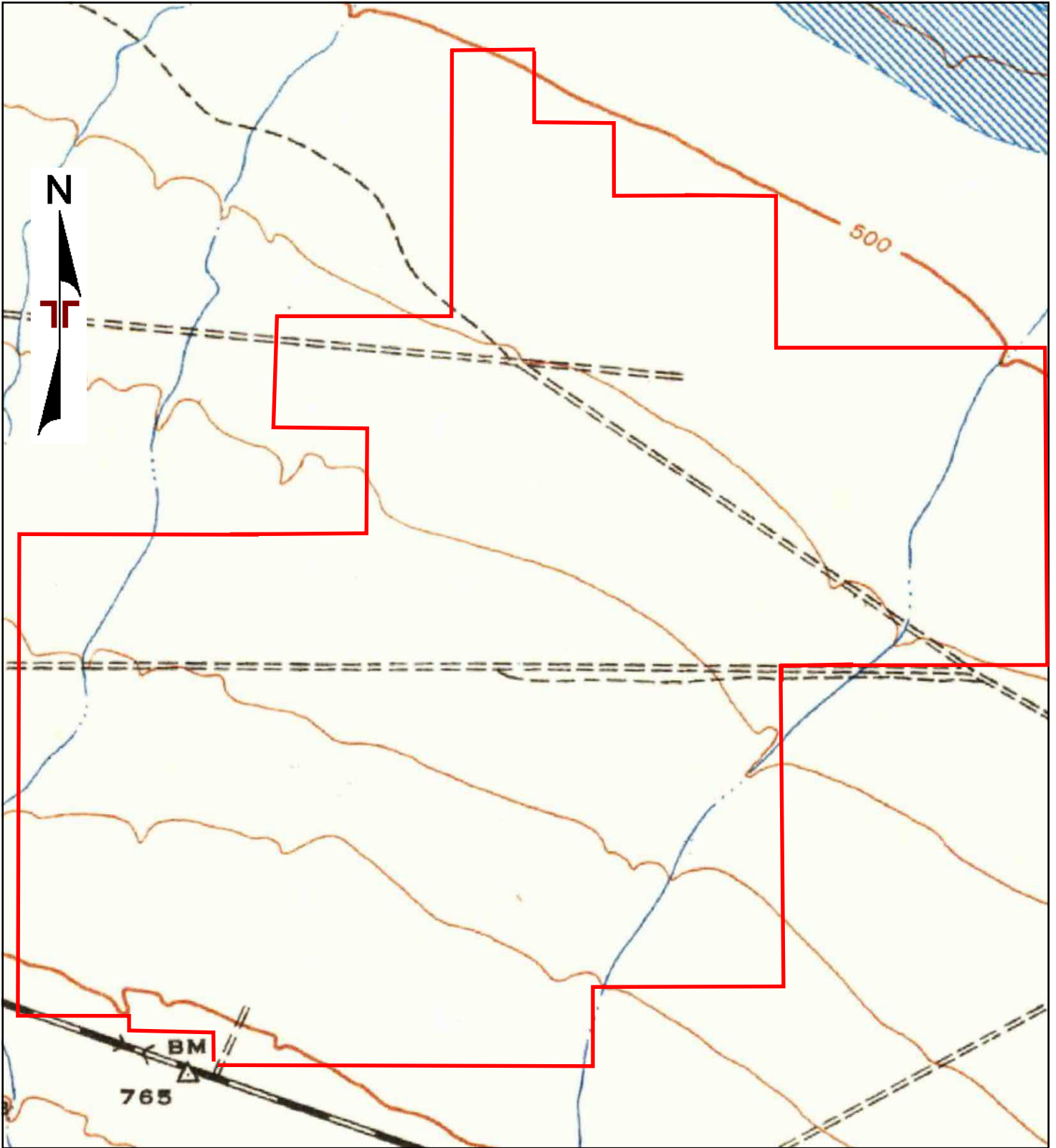
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Date:	1947

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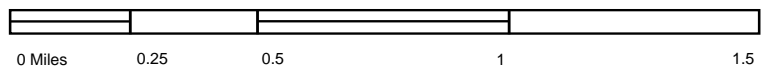
1947 TOPOGRAPHIC MAP
Arica and Victory Pass Solar Projects
North of Interstate 10
Desert Center, Riverside County, CA 92239

Appendix

C



TP, Chuckwalla Mountains, 1944, 15-minute



Project Manager:	TGM
Drawn by:	TCJ
Checked by:	TGM
Approved by:	CAP


Project No.	CB207045
Scale:	As Shown
File Name:	N/A
Date:	1944

Terracon
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Colton, CA 92324

1944 TOPOGRAPHIC MAP
Arica and Victory Pass Solar Projects
North of Interstate 10
Desert Center, Riverside County, CA 92239

Appendix

C



Arica and Victory Pass Solar Projects
North of Interstate 10
Desert Center, Riverside County, CA 92239

Inquiry Number: 6042100.8

April 17, 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

04/17/20

Site Name:

Arica and Victory Pass
North of Interstate 10
Desert Center, CA 92239
EDR Inquiry # 6042100.8

Client Name:

Terracon Consultants, Inc.
1355 E Cooley Drive, Suite C
Colton, CA 92324
Contact: Thomas Johnson



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2016	1"=1000'	Flight Year: 2016	USDA/NAIP
2012	1"=1000'	Flight Year: 2012	USDA/NAIP
2009	1"=1000'	Flight Year: 2009	USDA/NAIP
2005	1"=1000'	Flight Year: 2005	USDA/NAIP
2002	1"=1000'	Flight Date: January 01, 2002	USDA
1996	1"=1000'	Acquisition Date: January 01, 1996	USGS/DOQQ
1984	1"=1000'	Flight Date: January 01, 1984	USDA
1975	1"=1000'	Flight Date: January 01, 1975	USGS
1953	1"=1000'	Flight Date: January 01, 1953	USDA
1948	1"=1000'	Flight Date: January 01, 1948	USGS

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4000

6042100 8 page 2



0 Feet 1000 2000 4000

Project Manager:	Project No:
TGM	CB207045
Drawn By:	Scale:
TCJ	As Shown
Checked By:	File Name:
TGM	N/A
Approved By:	Date:
CAP	2016



1355 E Cooley Drive, Suite C
Colton, CA 92324

2016 AERIAL PHOTOGRAPH

Arica and Victory Pass Solar Projects
North of Interstate 10
Desert Center, Riverside County, CA 92239

Appendix
C



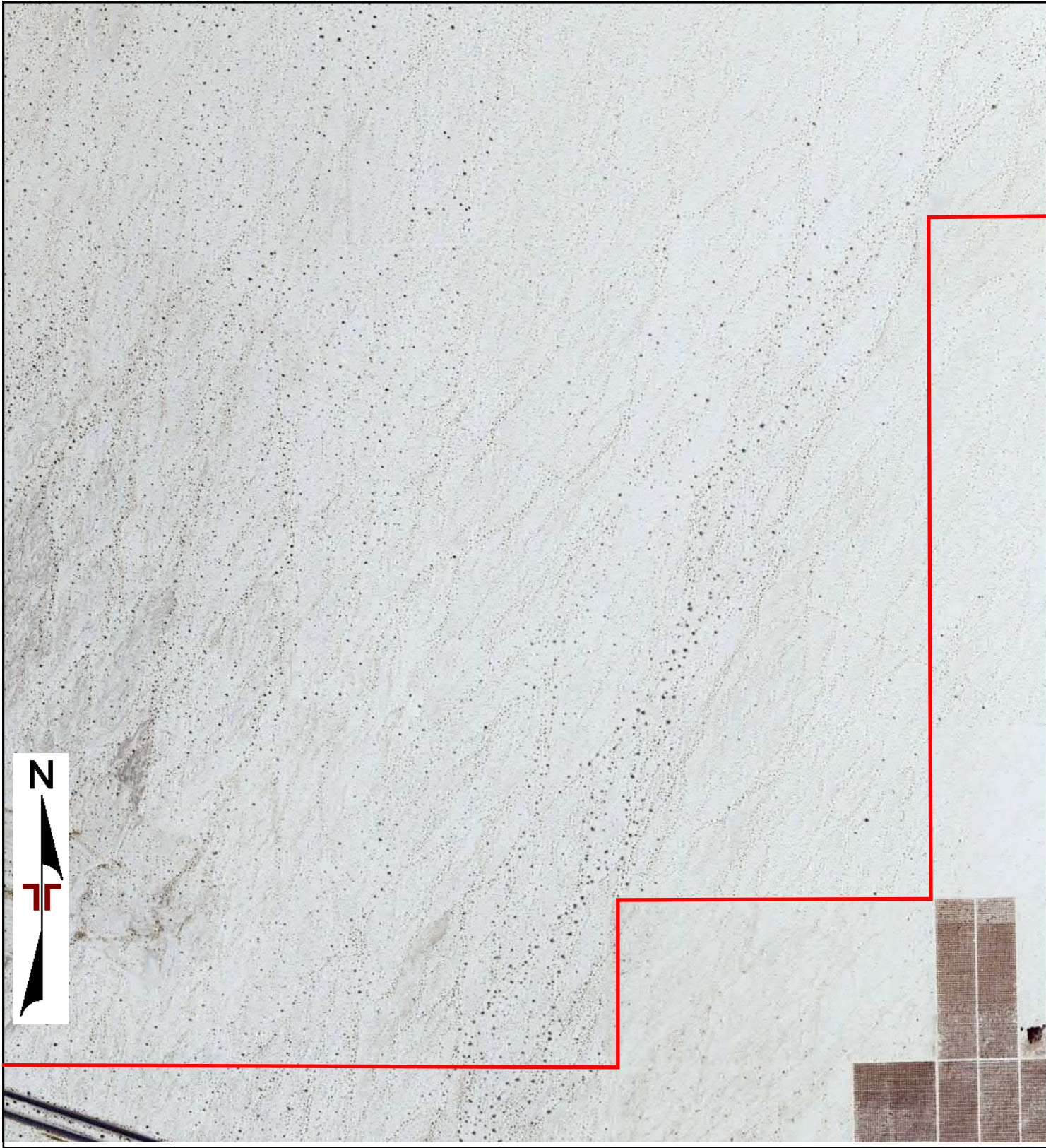
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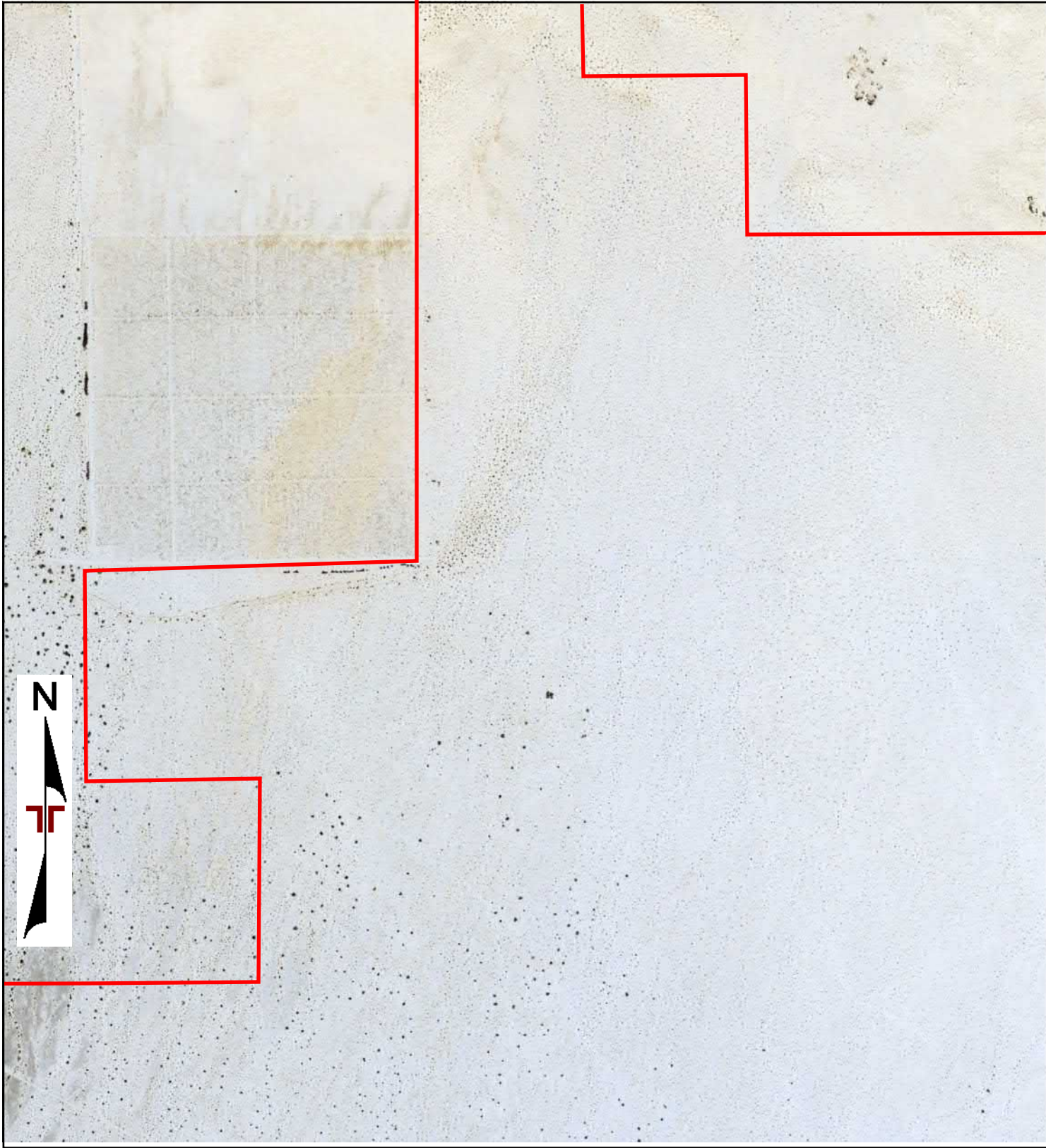
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Drawn By: TCJ	Scale: As Shown		Arica and Victory Pass Solar Projects North of Interstate 10 Desert Center, Riverside County, CA 92239	C
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Approved By: CAP	Date: 2016			



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Project Manager: TGM	Project No: CB207045	 1355 E Cooley Drive, Suite C Colton, CA 92324	2016 AERIAL PHOTOGRAPH	Appendix
Drawn By: TCJ	Scale: As Shown		Arica and Victory Pass Solar Projects North of Interstate 10 Desert Center, Riverside County, CA 92239	C
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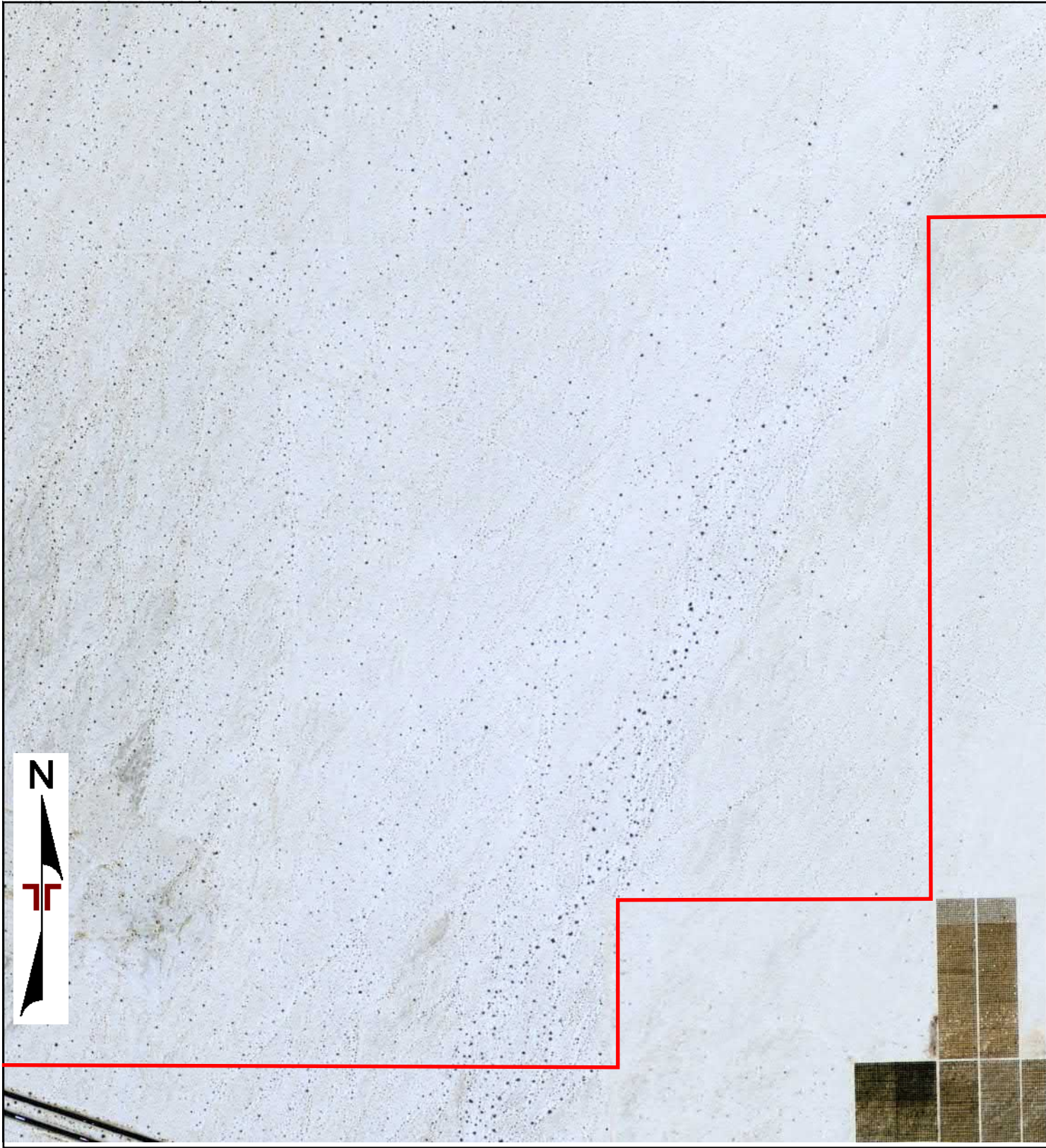
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Drawn By: TCJ	Scale: As Shown		Arica and Victory Pass Solar Projects	C
Checked By: TGM	File Name: N/A		North of Interstate 10	
Approved By: CAP	Date: 2012		Desert Center, Riverside County, CA 92239	

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Project Manager: TGM	Project No: CB207045	 1355 E Cooley Drive, Suite C Colton, CA 92324	2012 AERIAL PHOTOGRAPH	Appendix
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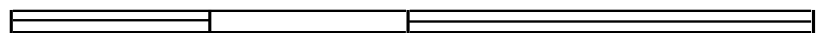
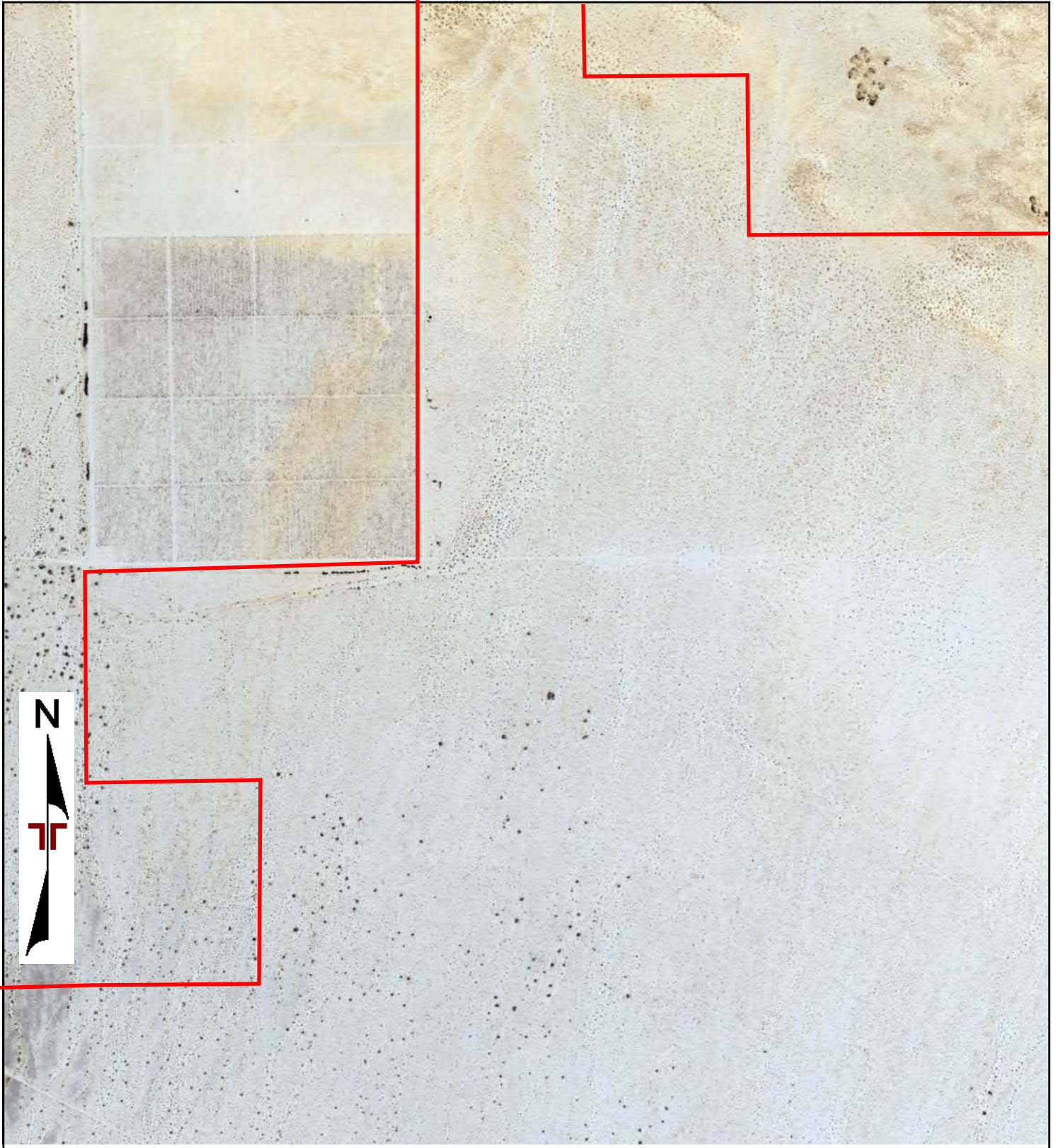
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Project Manager: TGM	Project No: CB207045	 1355 E Cooley Drive, Suite C Colton, CA 92324	2012 AERIAL PHOTOGRAPH	Appendix
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Checked By: TGM	File Name: N/A			
Approved By: CAP	Date: 2012			



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Project Manager: TGM	Project No: CB207045	 <p>1355 E Cooley Drive, Suite C Colton, CA 92324</p>	2009 AERIAL PHOTOGRAPH	Appendix
Drawn By: TCJ	Scale: As Shown		<p>Arica and Victory Pass Solar Projects North of Interstate 10 Desert Center, Riverside County, CA 92239</p>	C
Checked By: TGM	File Name: N/A			
Approved By: CAP	Date: 2009			



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Project Manager:	Project No:
TGM	CB207045
Drawn By:	Scale:
TCJ	As Shown
Checked By:	File Name:
TGM	N/A
Approved By:	Date:
CAP	2009

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1355 E Cooley Drive, Suite C
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2009 AERIAL PHOTOGRAPH

Arica and Victory Pass Solar Projects
North of Interstate 10
Desert Center, Riverside County, CA 92239

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Project Manager:	TGM
Drawn By:	TCJ
Checked By:	TGM
Approved By:	CAP

Project No:	CB207045
Scale:	As Shown
File Name:	N/A
Date:	2009

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2009 AERIAL PHOTOGRAPH

Arica and Victory Pass Solar Projects
North of Interstate 10
Desert Center, Riverside County, CA 92239

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Project Manager: TGM	Project No: CB207045	 1355 E Cooley Drive, Suite C Colton, CA 92324	2009 AERIAL PHOTOGRAPH	Appendix
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Approved By: CAP	Date: 2009		Desert Center, Riverside County, CA 92239	



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Project Manager:	Project No:
TGM	CB207045
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Approved By:	Date:
CAP	2005

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2005 AERIAL PHOTOGRAPH

Arica and Victory Pass Solar Projects
North of Interstate 10
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Project Manager: TGM	Project No: CB207045	 1355 E Cooley Drive, Suite C Colton, CA 92324	2005 AERIAL PHOTOGRAPH	Appendix
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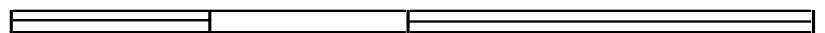
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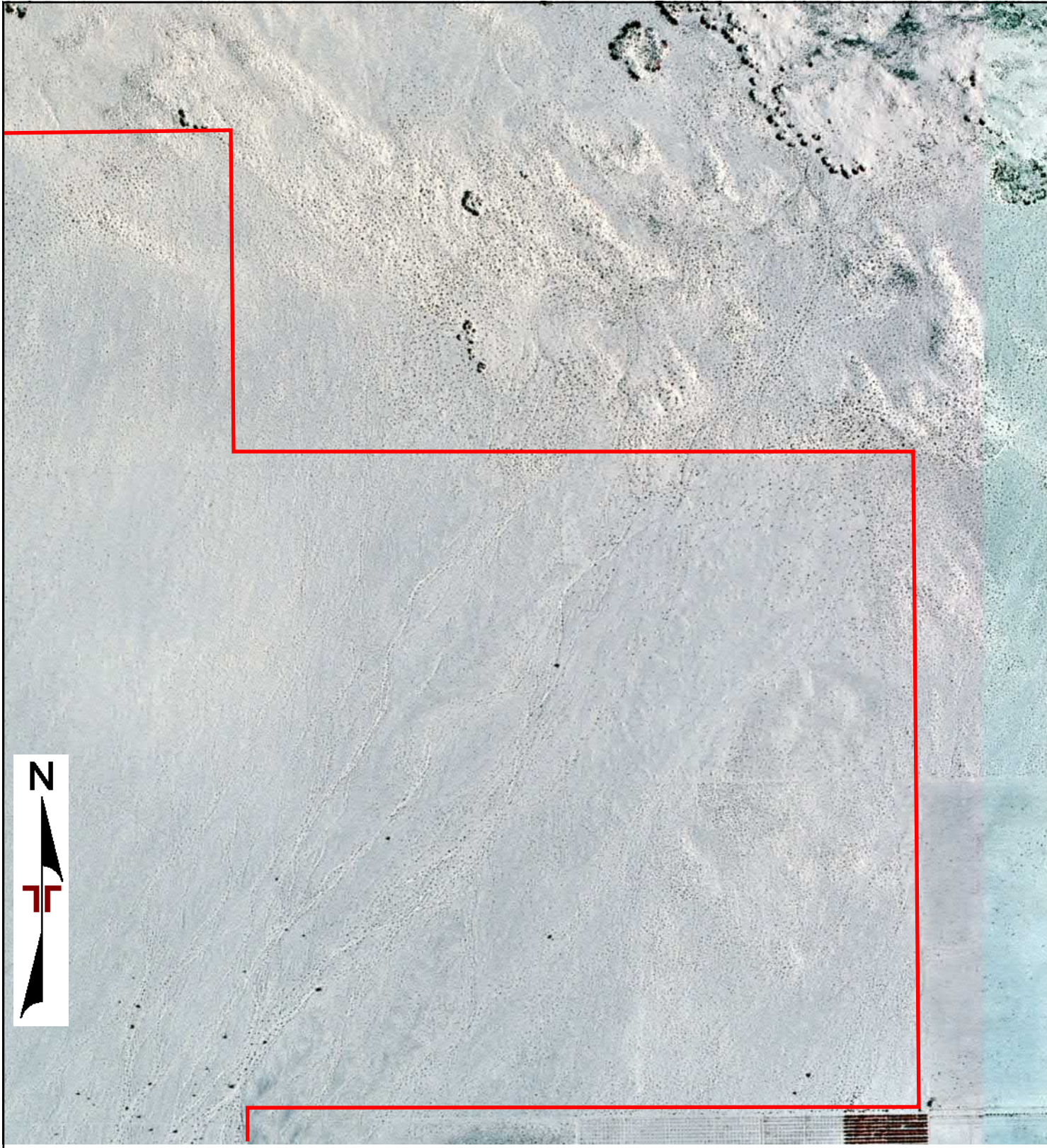
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Approved By: CAP	Date: 2005		Desert Center, Riverside County, CA 92239	



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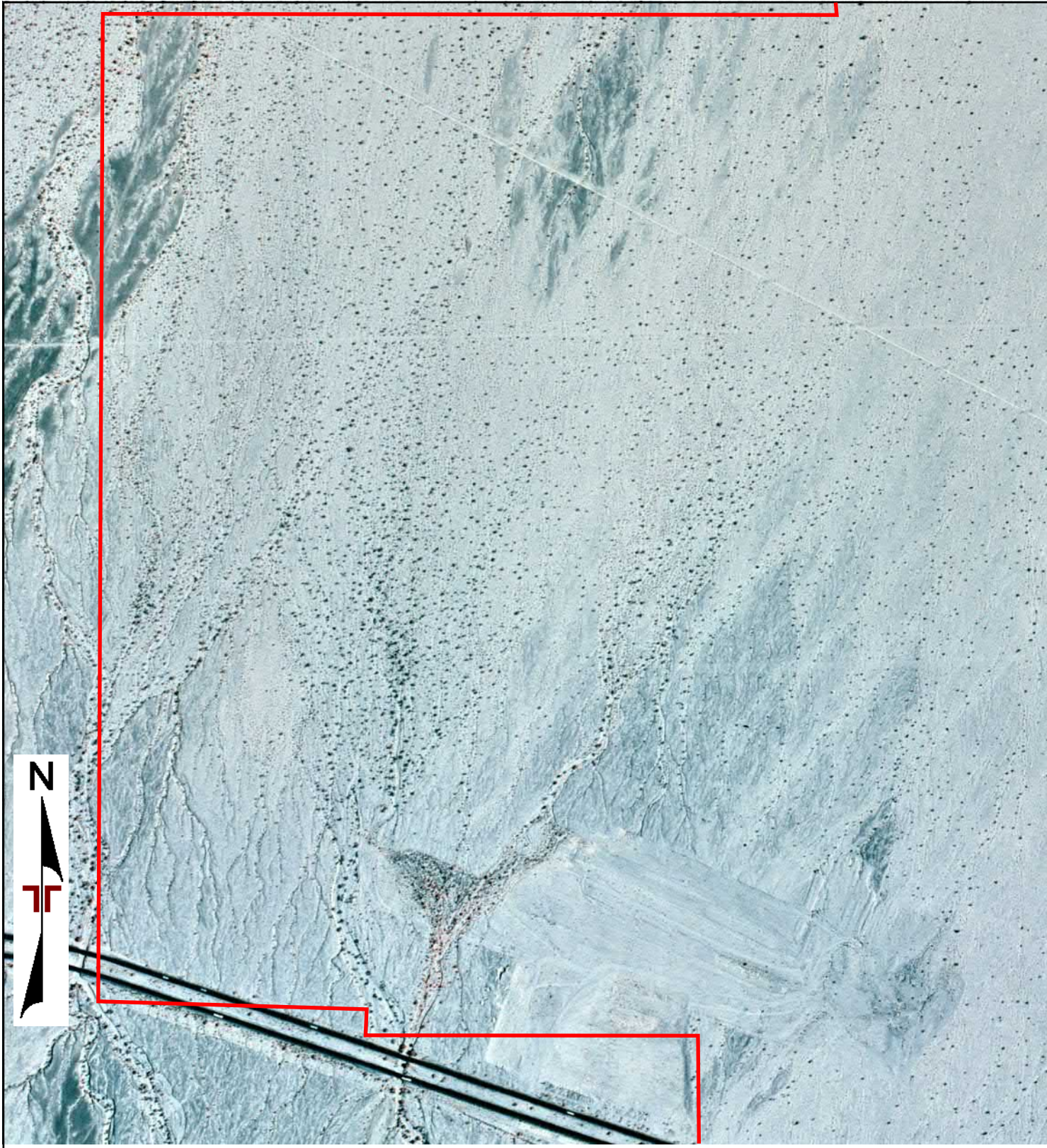
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Approved By: CAP	Date: 2002		Desert Center, Riverside County, CA 92239	



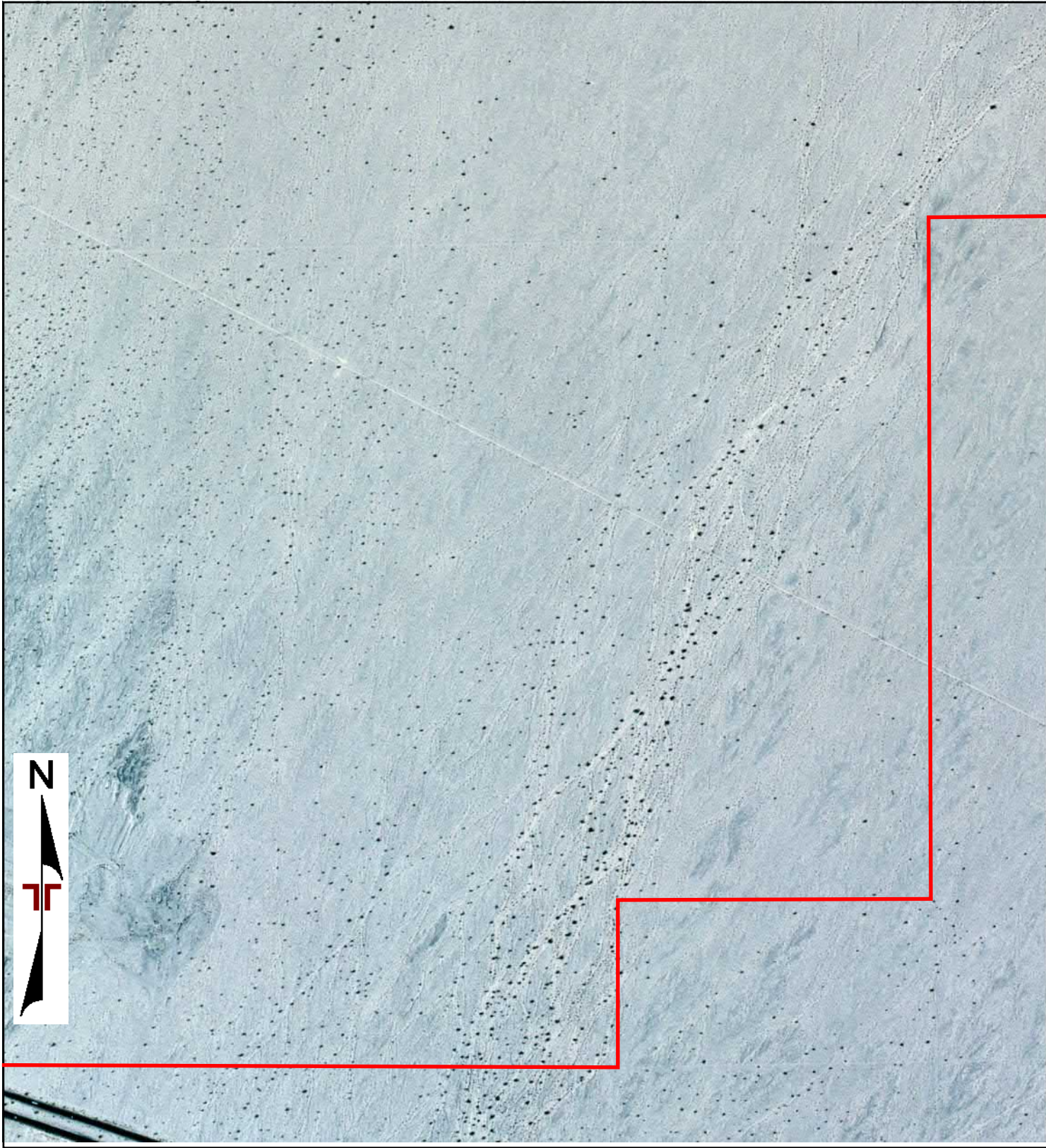
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Project Manager: TGM	Project No: CB207045	 1355 E Cooley Drive, Suite C Colton, CA 92324	2002 AERIAL PHOTOGRAPH	Appendix
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Approved By: CAP	Date: 2002		Desert Center, Riverside County, CA 92239	



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Project Manager: TGM	Project No: CB207045	 1355 E Cooley Drive, Suite C Colton, CA 92324	2002 AERIAL PHOTOGRAPH	Appendix
Drawn By: TCJ	Scale: As Shown		Arica and Victory Pass Solar Projects North of Interstate 10 Desert Center, Riverside County, CA 92239	C
Checked By: TGM	File Name: N/A			
Approved By: CAP	Date: 2002			



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Project Manager: TGM	Project No: CB207045	 1355 E Cooley Drive, Suite C Colton, CA 92324	1996 AERIAL PHOTOGRAPH	Appendix
Drawn By: TCJ	Scale: As Shown		Arica and Victory Pass Solar Projects	C
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Project Manager: TGM	Project No: CB207045	 1355 E Cooley Drive, Suite C Colton, CA 92324	1996 AERIAL PHOTOGRAPH	Appendix
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Approved By: CAP	Date: 1996		Desert Center, Riverside County, CA 92239	

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Colton, CA 92324

1984 AERIAL PHOTOGRAPH

Arica and Victory Pass Solar Projects
North of Interstate 10
Desert Center, Riverside County, CA 92239

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Project Manager:	TGM
Drawn By:	TCJ
Checked By:	TGM
Approved By:	CAP

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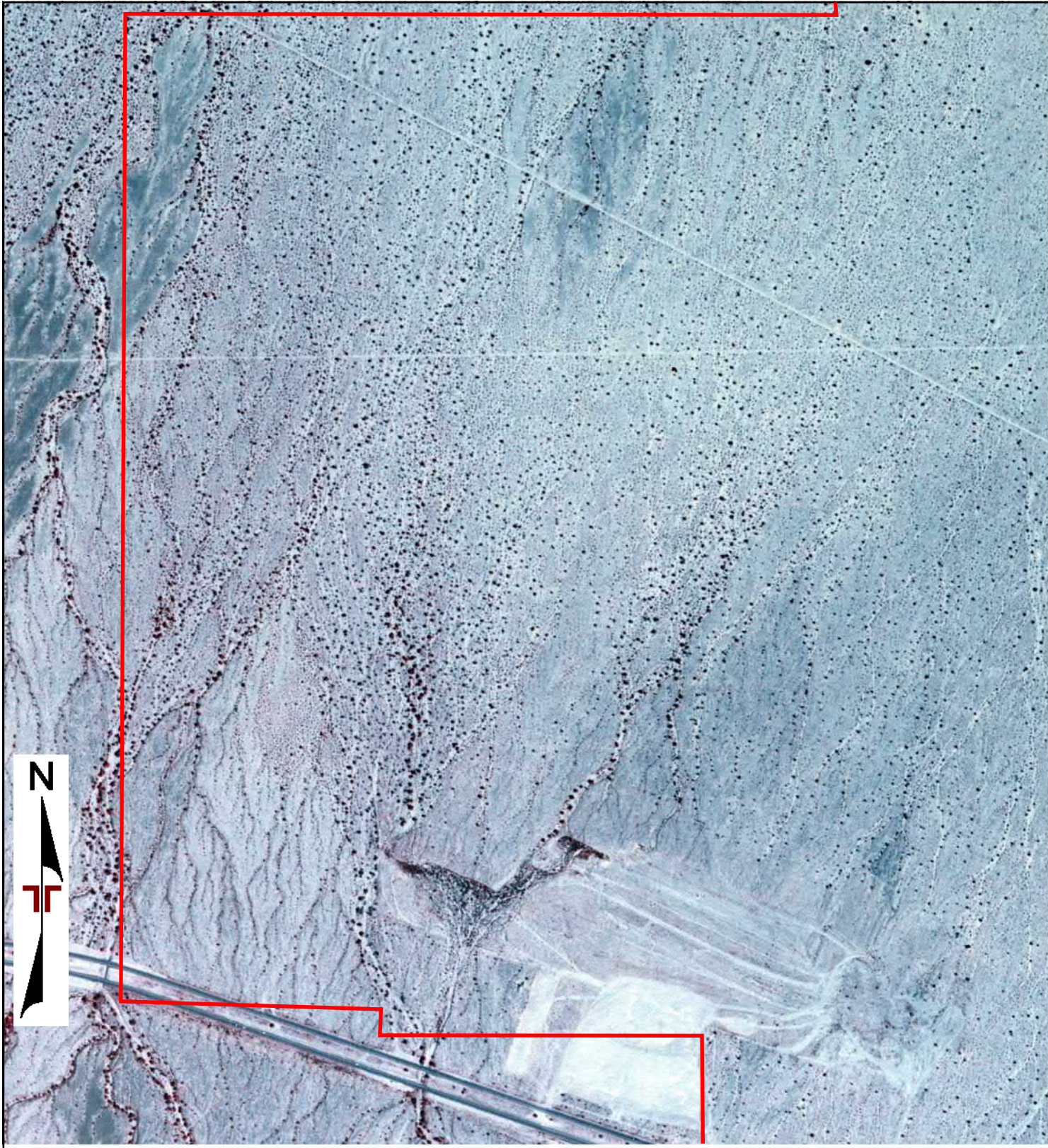


1355 E Cooley Drive, Suite C
Colton, CA 92324

1984 AERIAL PHOTOGRAPH

Arica and Victory Pass Solar Projects
North of Interstate 10
Desert Center, Riverside County, CA 92239

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Project Manager:	TGM
Drawn By:	TCJ
Checked By:	TGM
Approved By:	CAP

Project No:	CB207045
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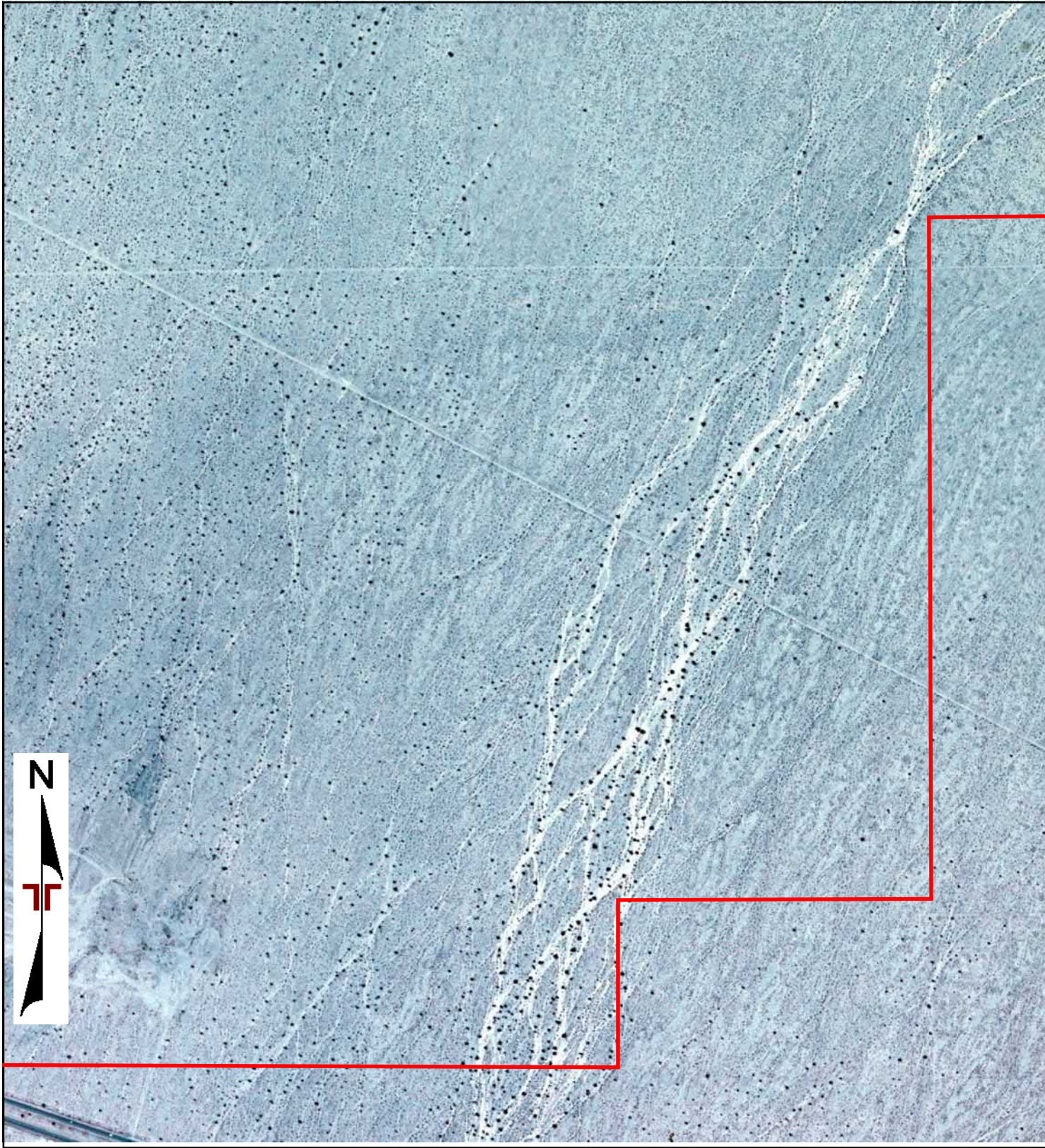


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Colton, CA 92324

1984 AERIAL PHOTOGRAPH

Arica and Victory Pass Solar Projects
North of Interstate 10
Desert Center, Riverside County, CA 92239

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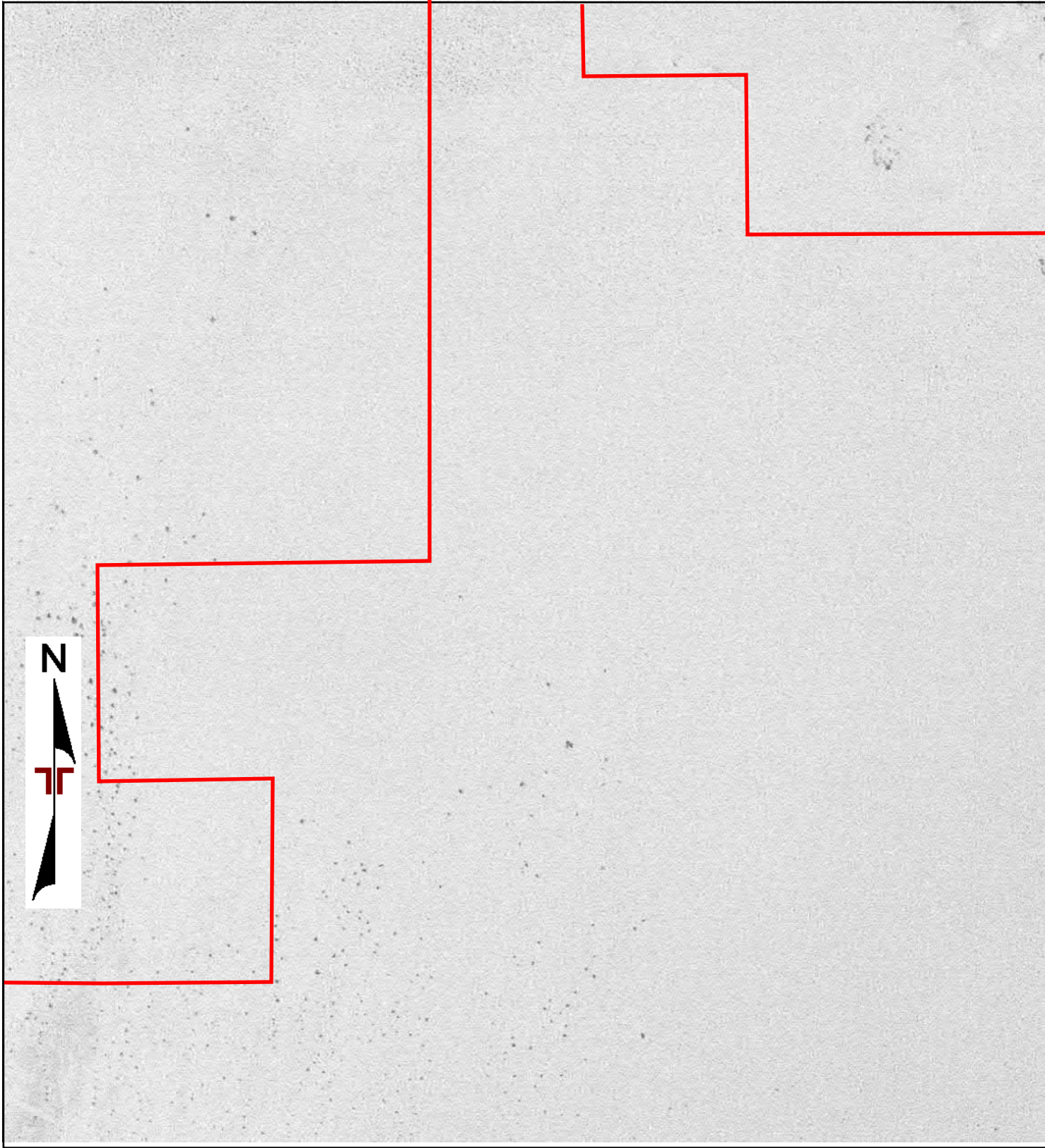
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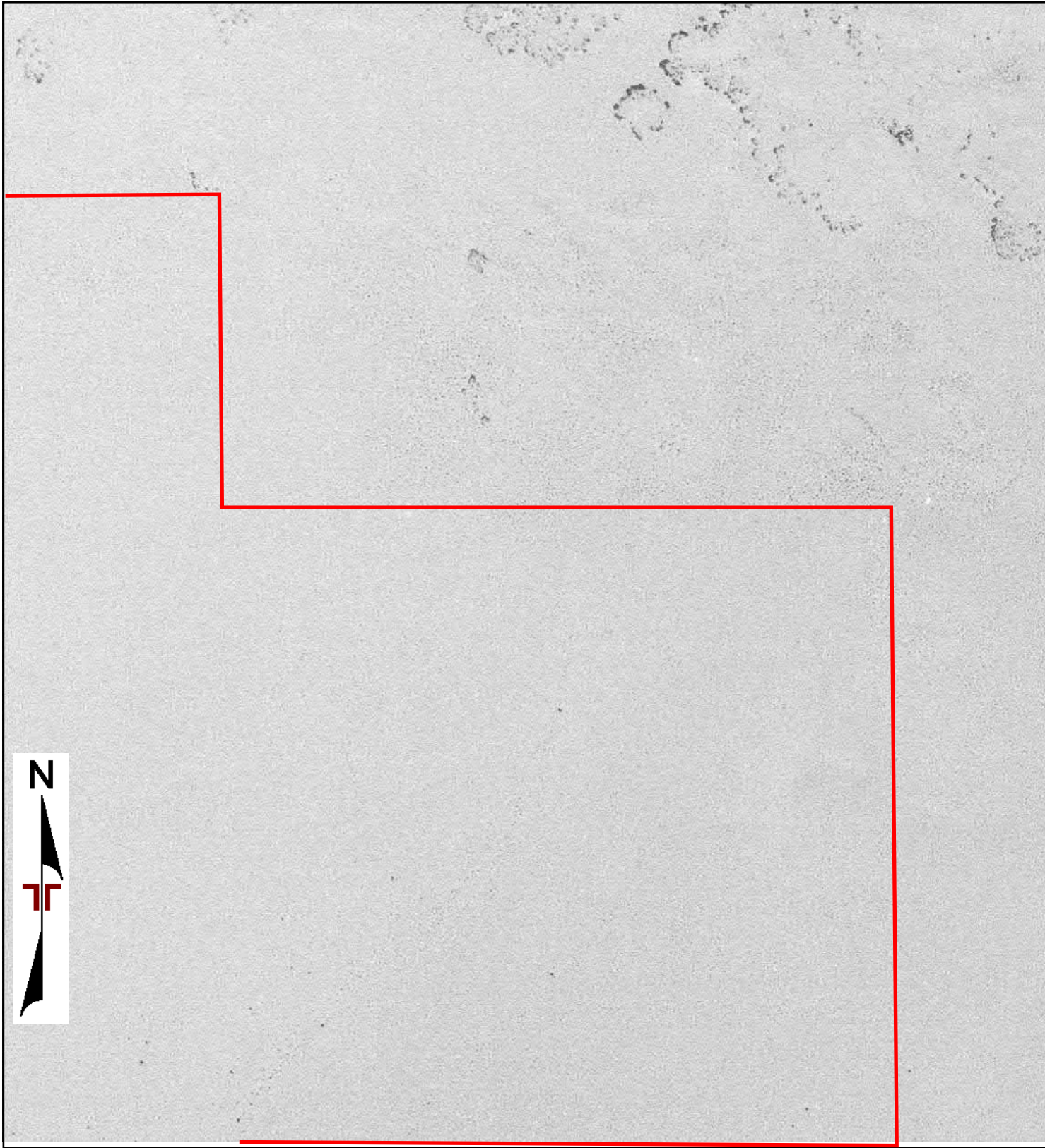
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Approved By: CAP	Date: 1975		Desert Center, Riverside County, CA 92239	



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Project Manager:	Project No:
TGM	CB207045
Drawn By:	Scale:
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Checked By:	File Name:
TGM	N/A
Approved By:	Date:
CAP	1975



1355 E Cooley Drive, Suite C
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1975 AERIAL PHOTOGRAPH

Arica and Victory Pass Solar Projects
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Project Manager: TGM	Project No: CB207045	 1355 E Cooley Drive, Suite C Colton, CA 92324	1975 AERIAL PHOTOGRAPH	Appendix
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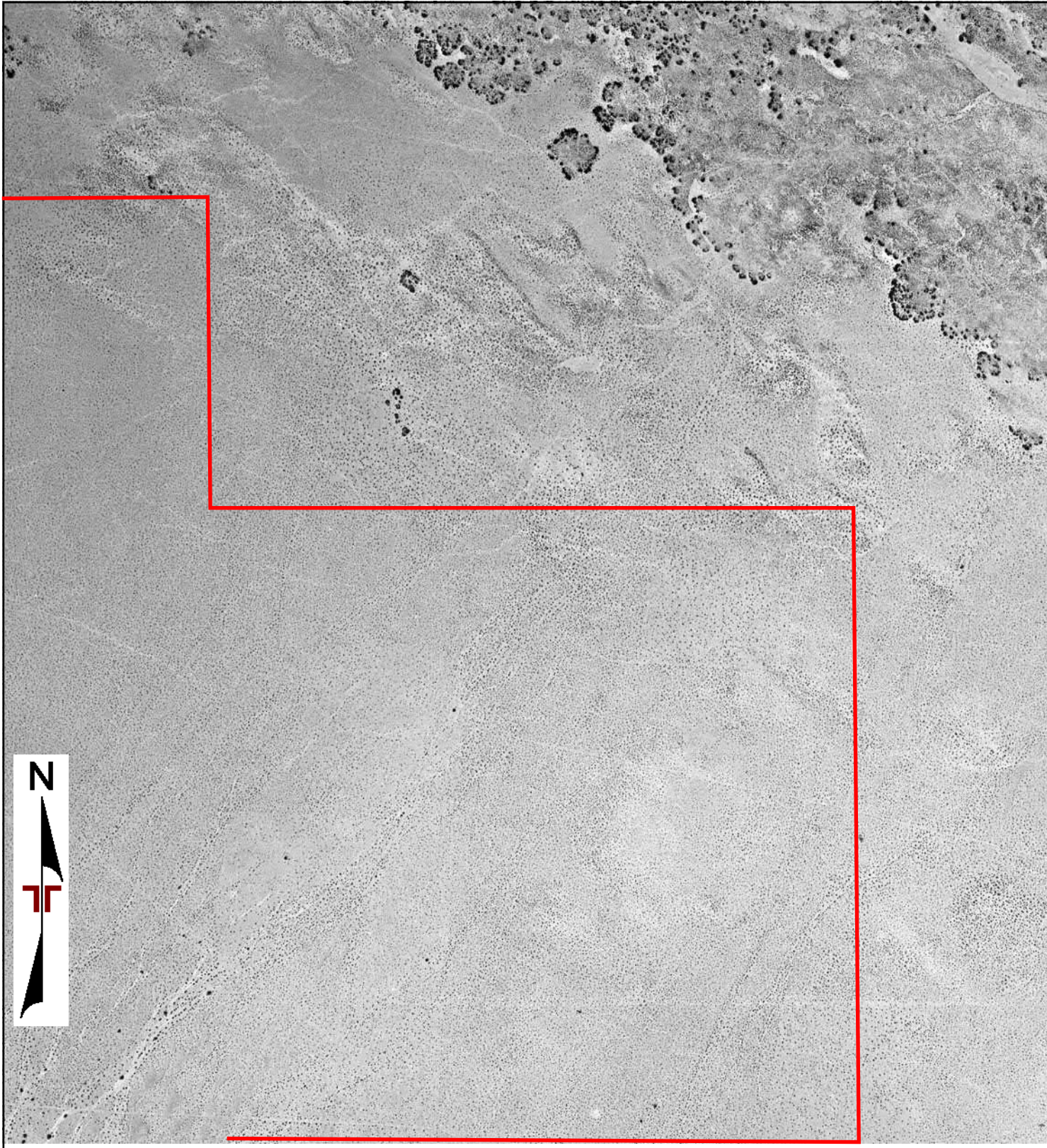
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Approved By: CAP	Date: 1975		Desert Center, Riverside County, CA 92239	



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Project Manager:	Project No:
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Drawn By:	Scale:
TCJ	As Shown
Checked By:	File Name:
TGM	N/A
Approved By:	Date:
CAP	1953



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Colton, CA 92324

1953 AERIAL PHOTOGRAPH

Arica and Victory Pass Solar Projects
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CAP	1954

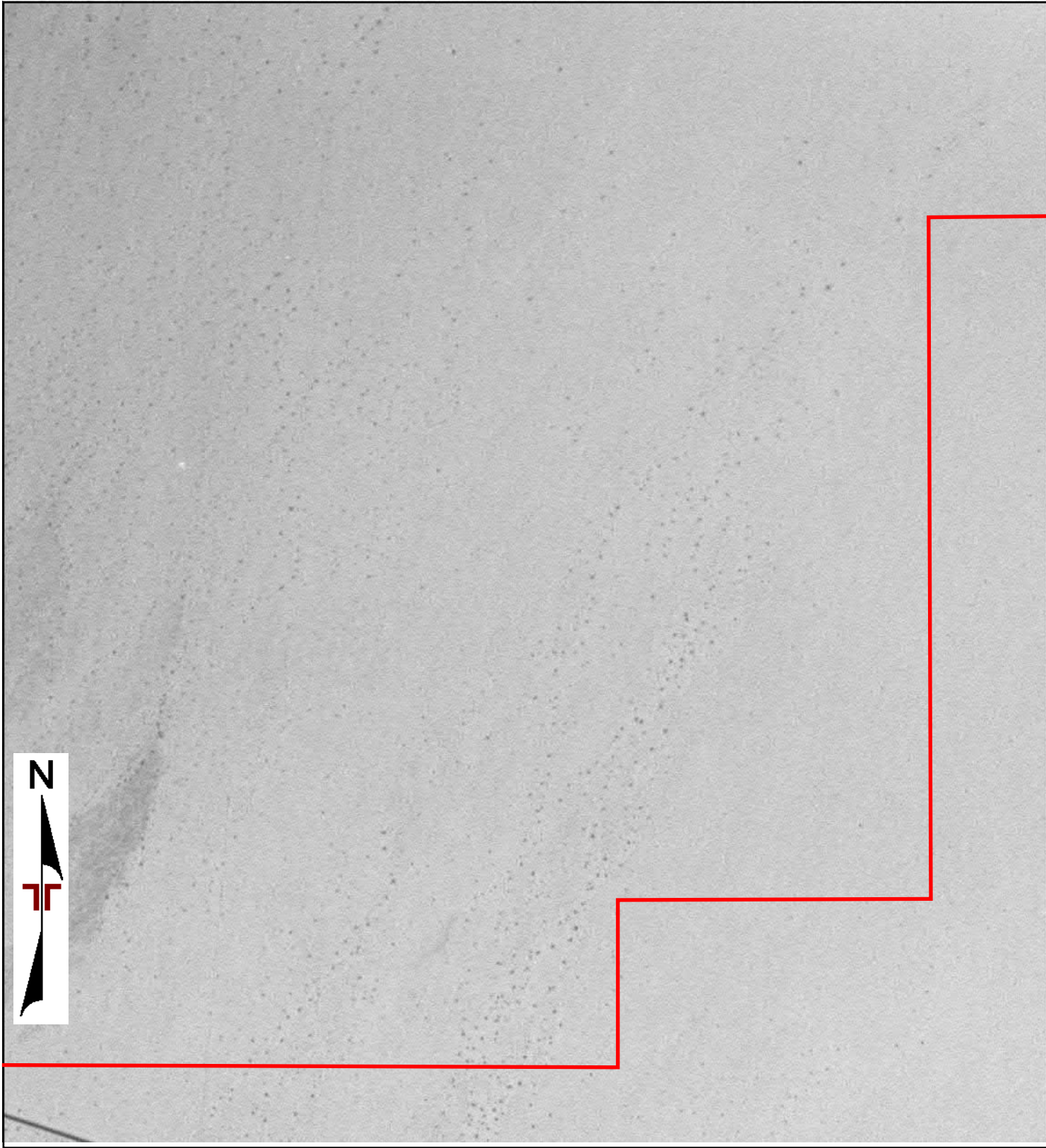


1355 E Cooley Drive, Suite C
Colton, CA 92324

1954 AERIAL PHOTOGRAPH

Arica and Victory Pass Solar Projects
North of Interstate 10
Desert Center, Riverside County, CA 92239

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Project Manager:	Project No:
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CAP	1954



1355 E Cooley Drive, Suite C
Colton, CA 92324

1954 AERIAL PHOTOGRAPH

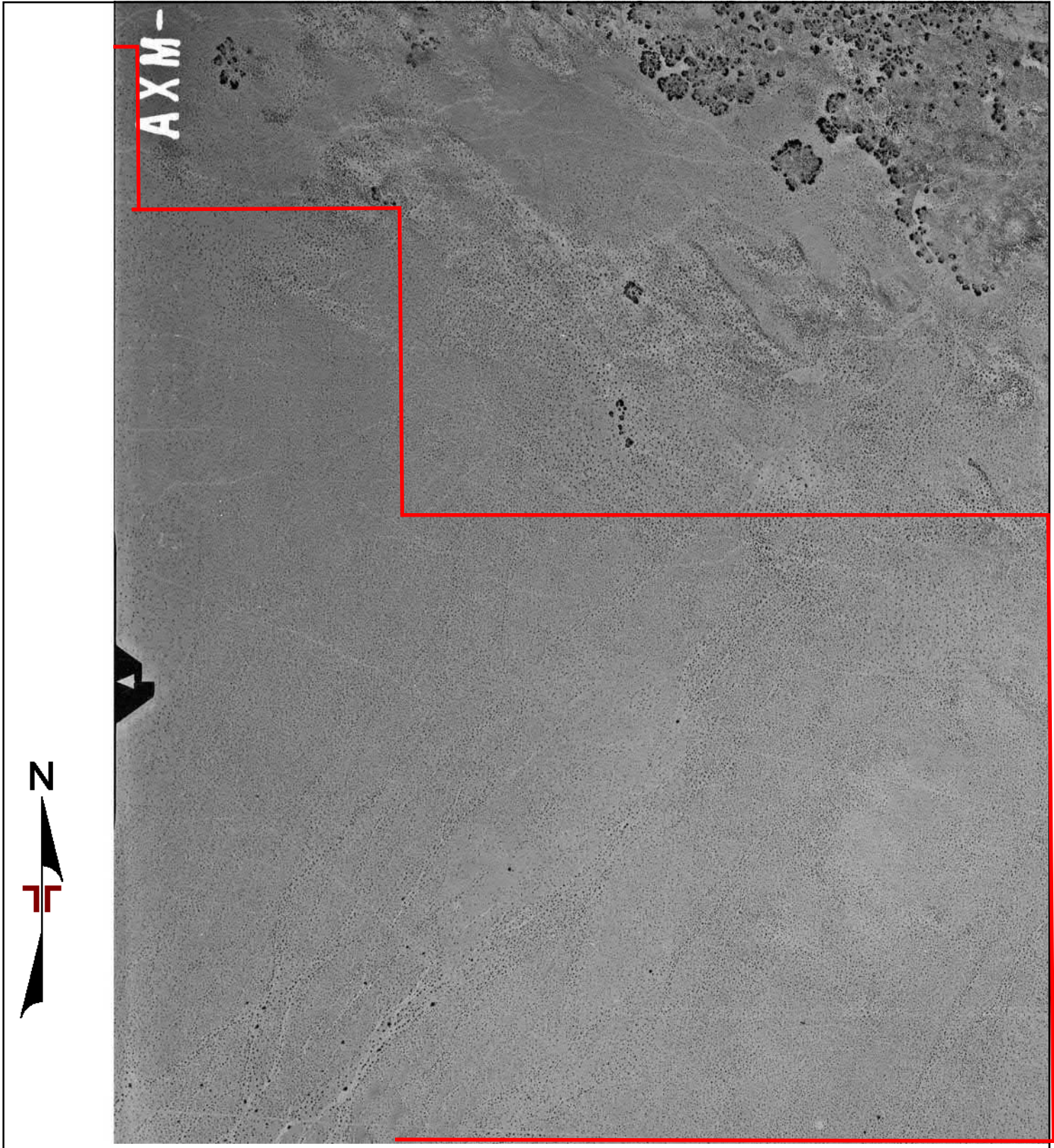
Arica and Victory Pass Solar Projects
North of Interstate 10
Desert Center, Riverside County, CA 92239

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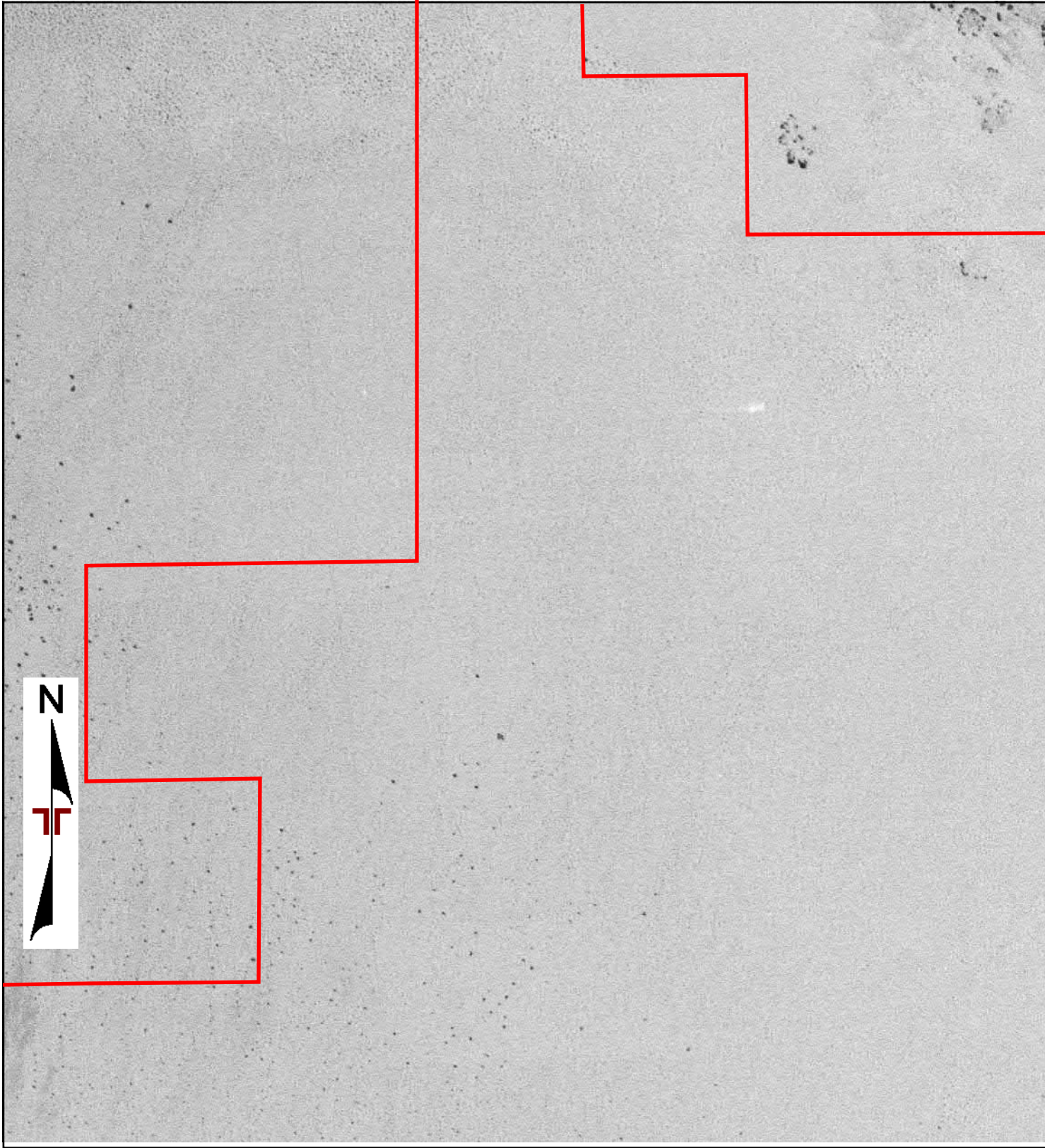


1355 E Cooley Drive, Suite C
Colton, CA 92324

1953 AERIAL PHOTOGRAPH

Arica and Victory Pass Solar Projects
North of Interstate 10
Desert Center, Riverside County, CA 92239

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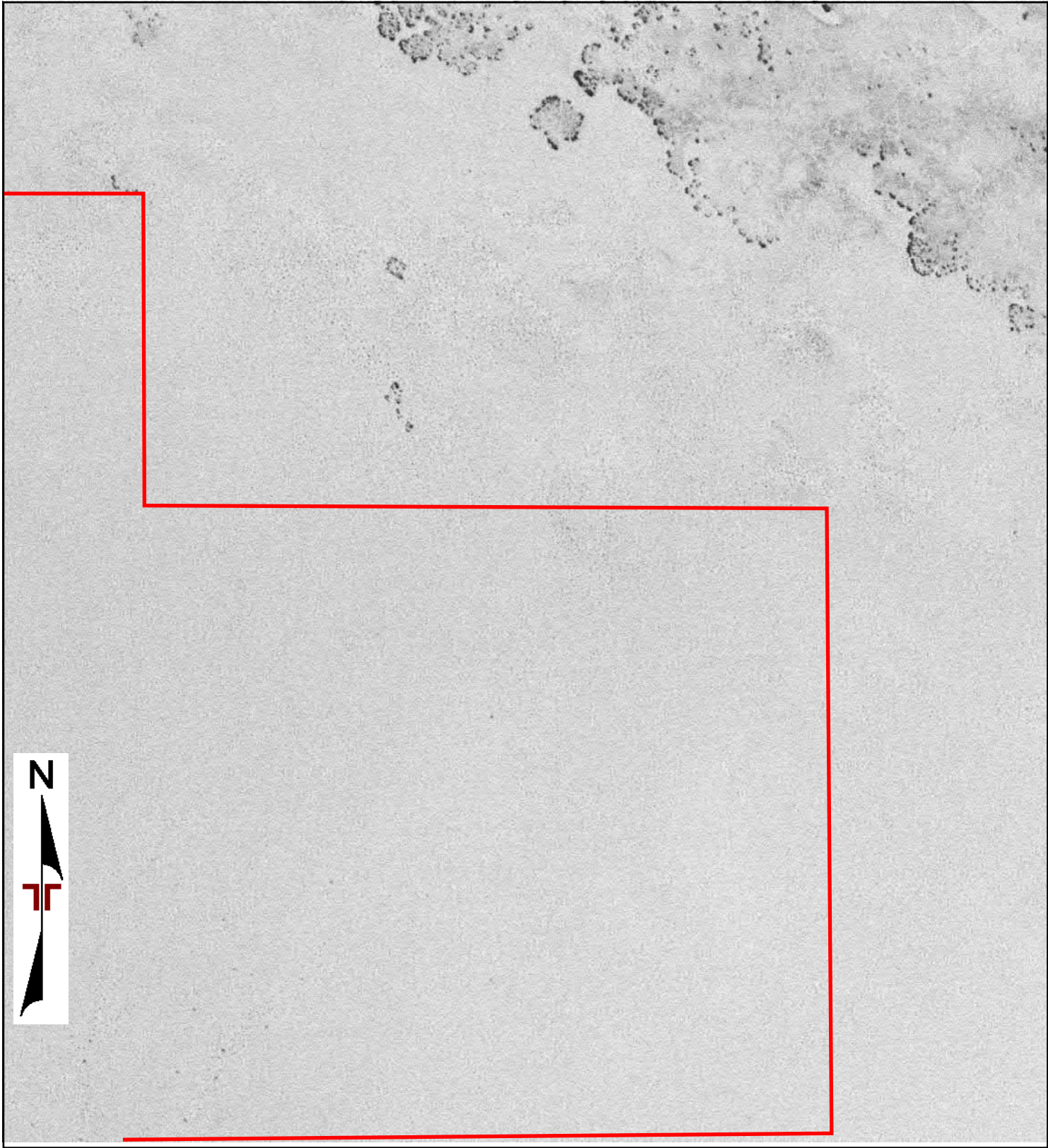
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Approved By: CAP	Date: 1948		Desert Center, Riverside County, CA 92239	



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Project Manager:
TGM
Drawn By:
TCJ
Checked By:
TGM
Approved By:
CAP

Project No:
CB207045
Scale:
As Shown
File Name:
N/A
Date:
1948

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1948 AERIAL PHOTOGRAPH

Arica and Victory Pass Solar Projects
North of Interstate 10
Desert Center, Riverside County, CA 92239

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Project Manager:	Project No:
TGM	CB207045
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Approved By:	Date:
CAP	1948

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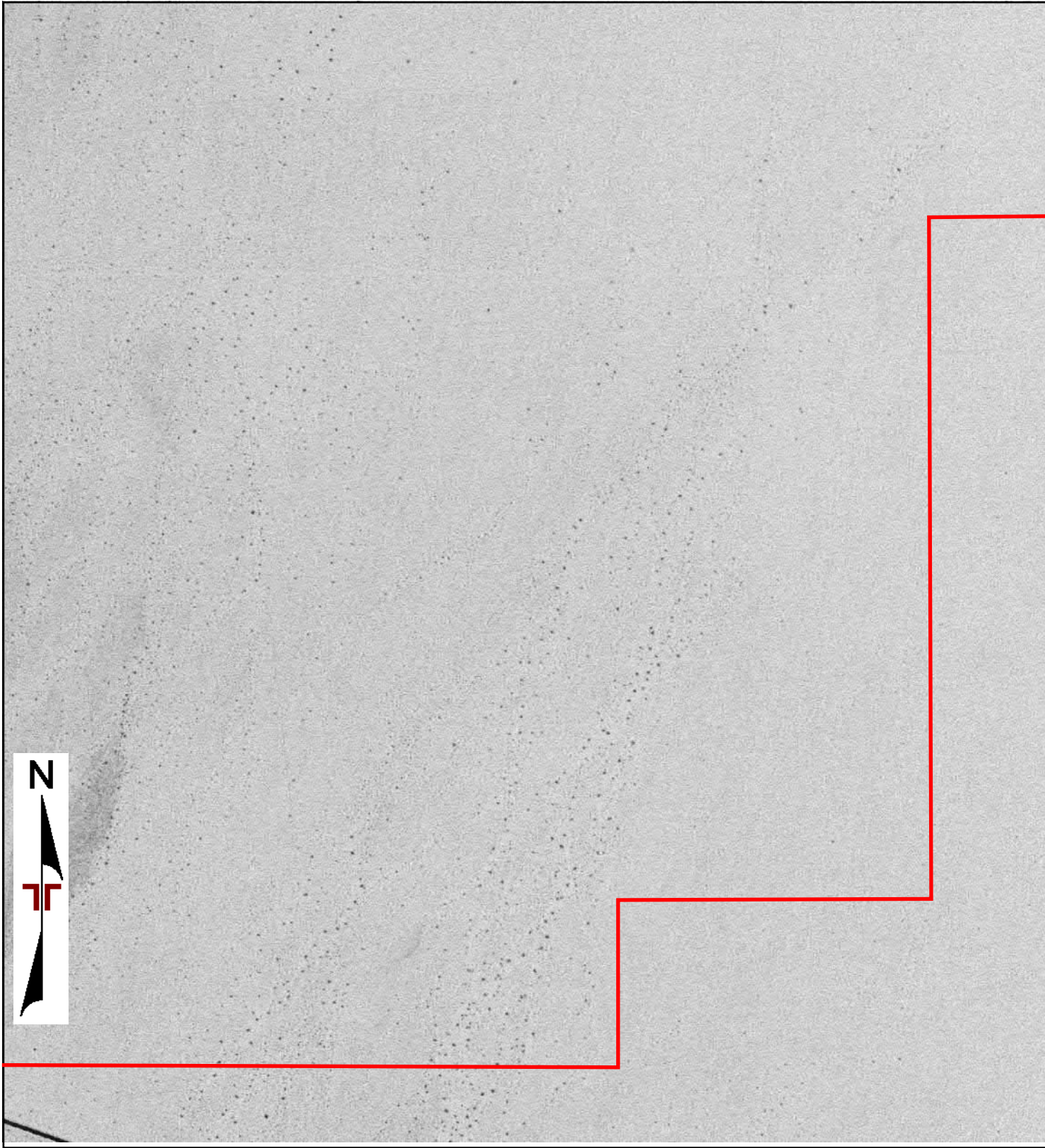
1355 E Cooley Drive, Suite C
Colton, CA 92324

1948 AERIAL PHOTOGRAPH

Arica and Victory Pass Solar Projects
North of Interstate 10
Desert Center, Riverside County, CA 92239

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Project Manager: TGM	Project No: CB207045	 1355 E Cooley Drive, Suite C Colton, CA 92324	1948 AERIAL PHOTOGRAPH	Appendix
Drawn By: TCJ	Scale: As Shown		Arica and Victory Pass Solar Projects	C
Checked By: TGM	File Name: N/A		North of Interstate 10	
Approved By: CAP	Date: 1948		Desert Center, Riverside County, CA 92239	

Arica and Victory Pass Solar Projects
North of Interstate 10
Desert Center, Riverside County, CA 92239

Inquiry Number: 6042100.5

April 20, 2020

The EDR-City Directory Image Report

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with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available 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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Data by

infoUSA[®]

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2017	<input type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2014	<input type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
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1971	<input type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

North of Interstate 10
Desert Center, CA 92239

No Addresses Found


FINDINGS

CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
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GAS LINE RD

2017	-	EDR Digital Archive	Target and Adjoining not listed in Source
2014	-	EDR Digital Archive	Target and Adjoining not listed in Source
2008	-	Haines Criss-Cross Directory	Street not listed in Source
2003	-	Haines Criss-Cross Directory	Street not listed in Source
1998	-	Haines Criss-Cross Directory	Street not listed in Source
1991	-	Haines Criss-Cross Directory	Street not listed in Source
1986	-	Haines Criss-Cross Directory	Street not listed in Source
1979	-	Haines Criss-Cross Directory	Street not listed in Source
1974	-	Haines Criss-Cross Directory	Street not listed in Source
1971	-	Haines Criss-Cross Directory	Street not listed in Source



Arica and Victory Pass Solar Projects
North of Interstate 10
Desert Center, Riverside County, CA 92239

Inquiry Number: 6042100.3

April 16, 2020

Certified Sanborn® Map Report



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

Certified Sanborn® Map Report

04/16/20

Site Name:

Arica and Victory Pass
North of Interstate 10
Desert Center, CA 92239
EDR Inquiry # 6042100.3

Client Name:

Terracon Consultants, Inc.
1355 E Cooley Drive, Suite C
Colton, CA 92324
Contact: Thomas Johnson



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Terracon Consultants, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 1FFB-49A8-ADC0

PO # NA

Project CB207045

UNMAPED PROPERTY

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Sanborn® Library search results

Certification #: 1FFB-49A8-ADC0

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

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Client/User Required Questionnaire



Person Completing Questionnaire	Name: April 30, 2020 (Revised May 7, 2020) Company: Arica and Victory Pass Solar Projects	Phone: 415-627-4656 Email: Aarty.Joshi@clearwayenergy.com
Site Name	Arica and Victory Pass Solar Projects	
Site Address	North of Interstate 10, Desert Center, CA	
Point of Contact for Access	Name: Miriam Liberatore, Project Manager Company: California Desert District, BLM	Phone: 541-618-2412 (o); 458-226-6931 (c) Email:
Access Restrictions or Special Site Requirements?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, please explain)	
Confidentiality Requirements?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, please explain)	
Current Site Owner	Name: Bureau of Land Management Company:	Phone: Email:
Current Site Operator	Name: Company:	Phone: Email:
Reasons for ESA (e.g., financing, acquisition, lease, etc.)	To support NEPA and CEQA permitting process	
Anticipated Future Site Use	Solar farm and battery storage facility	
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)? <input checked="" type="checkbox"/> No <input type="checkbox"/> 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)? <input checked="" type="checkbox"/> No <input type="checkbox"/> 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)? <input checked="" type="checkbox"/> No <input type="checkbox"/> 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)? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> 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)? <input checked="" type="checkbox"/> No <input type="checkbox"/> 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)? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, explain below)		
<u>Comments or explanations:</u>		

Please return this form with the signed authorization to proceed.

Proposal No. PCB207045

APPENDIX D
ENVIRONMENTAL DATABASE INFORMATION

Arica and Victory Pass Solar Projects
North of Interstate 10
Desert Center, Riverside County, CA 92239

Inquiry Number: 6042100.2s
April 16, 2020

The EDR Radius Map™ Report with GeoCheck®



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

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

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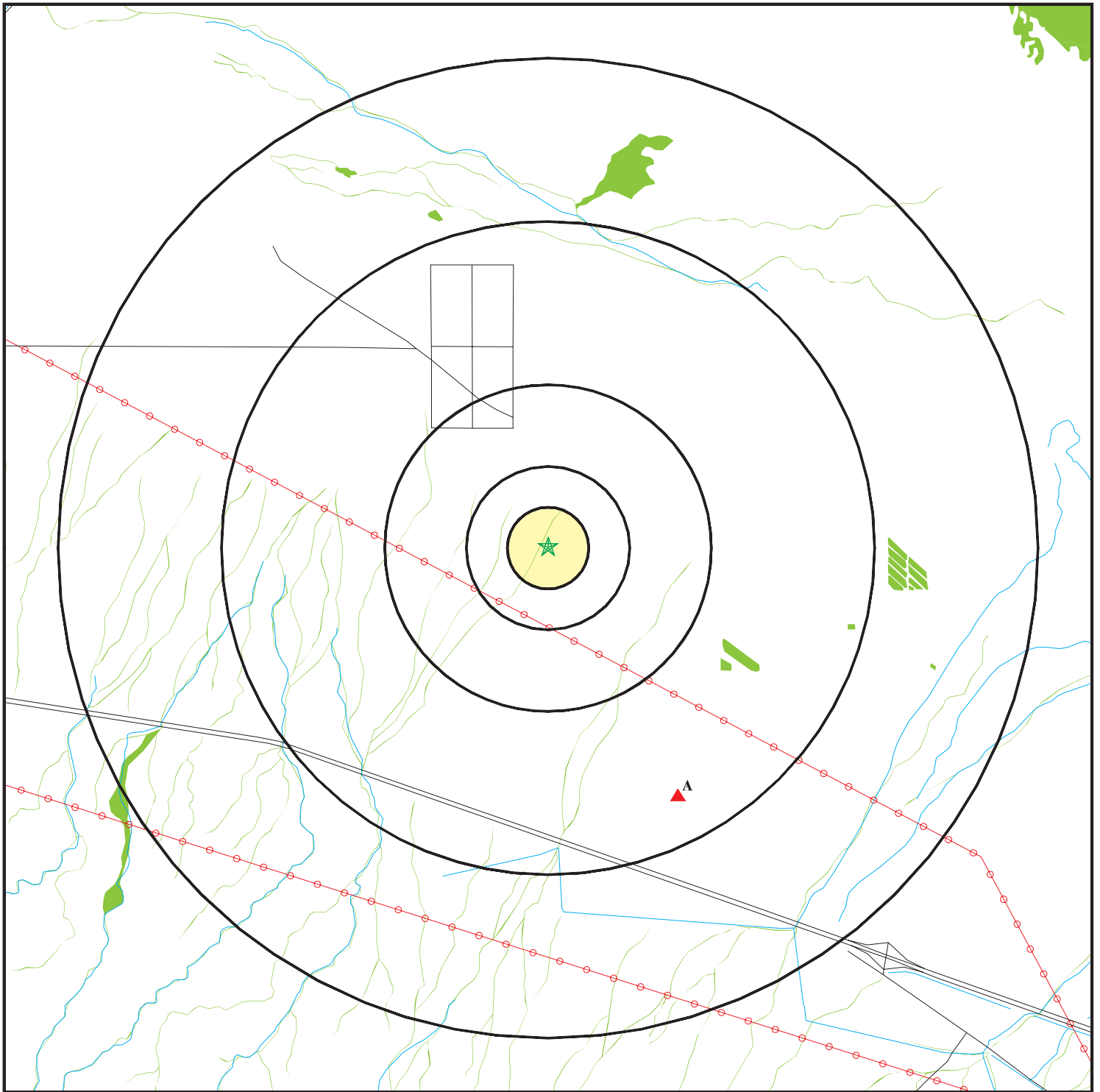
MAPPED SITES SUMMARY

Target Property Address:
NORTH OF INTERSTATE 10
DESERT CENTER, CA 92239

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	US SOLAR DESERT CENT	DESERT CENTER	CIWQS	Higher	9014, 1.707, SSE
A2	US SOLAR DESERT CENT	DESERT CENTER	CIWQS	Higher	9014, 1.707, SSE

OVERVIEW MAP - 6042100.2S



★ 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

⚡ Power transmission lines

🌊 Special Flood Hazard Area (1%)

🌊 0.2% Annual Chance Flood Hazard

🌿 National Wetland Inventory

🌿 State Wetlands

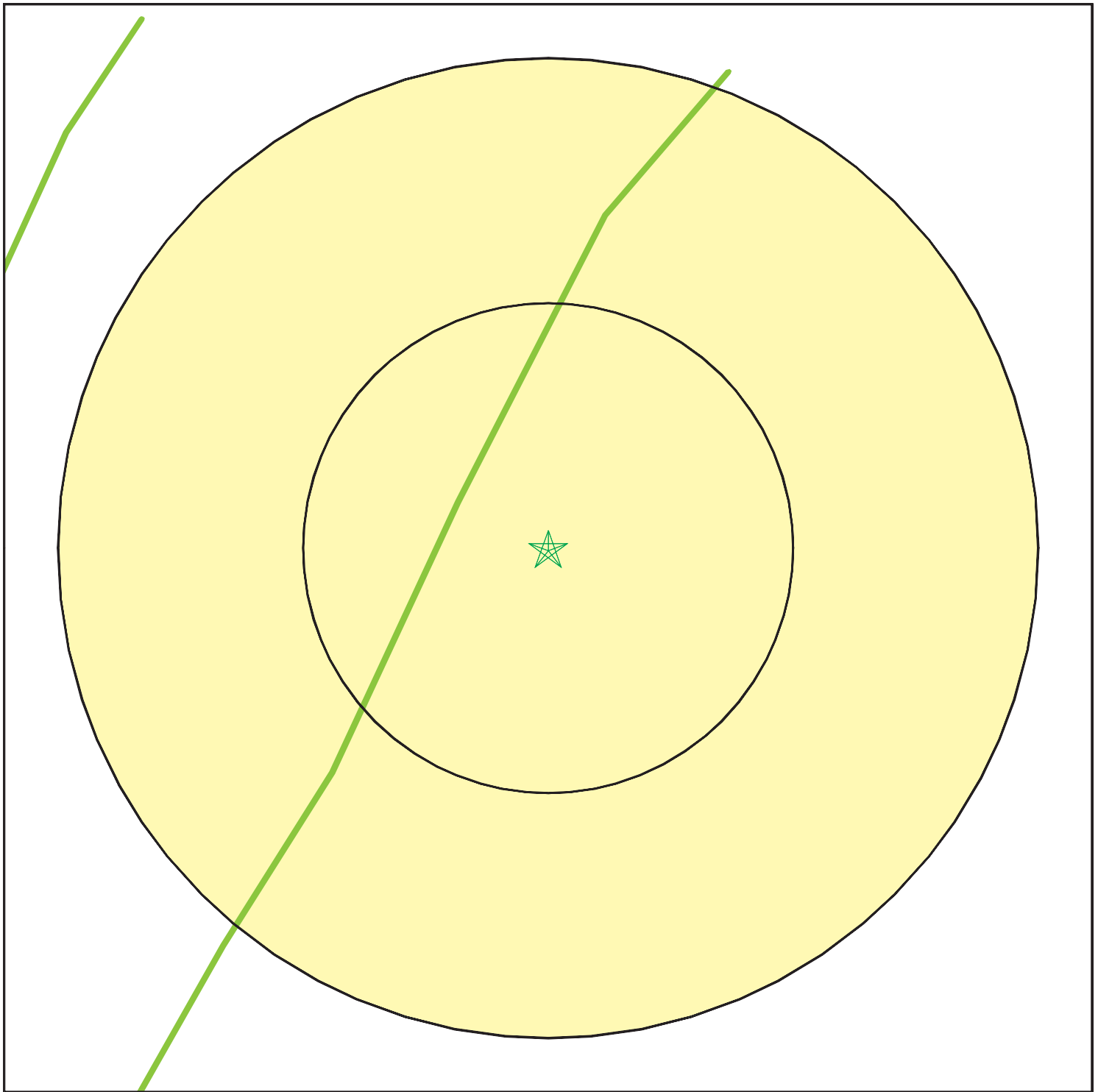
🏠 Areas of Concern

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

SITE NAME: Arica and Victory Pass
ADDRESS: North of Interstate 10
Desert Center CA 92239
LAT/LONG: 33.718724 / 115.279412

CLIENT: Terracon Consultants, Inc.
CONTACT: Thomas Johnson
INQUIRY #: 6042100.2s
DATE: April 16, 2020 1:13 pm

DETAIL MAP - 6042100.2S



★ 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

0 1/16 1/8 1/4 Miles



Indian Reservations BIA



Special Flood Hazard Area (1%)



0.2% Annual Chance Flood Hazard



National Wetland Inventory



State Wetlands



Areas of Concern



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

SITE NAME: Arica and Victory Pass
ADDRESS: North of Interstate 10
Desert Center CA 92239
LAT/LONG: 33.718724 / 115.279412

CLIENT: Terracon Consultants, Inc.
CONTACT: Thomas Johnson
INQUIRY #: 6042100.2s
DATE: April 16, 2020 1:14 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	2.750		0	0	0	0	0	0
Proposed NPL	2.750		0	0	0	0	0	0
NPL LIENS	2.750		0	0	0	0	0	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	2.750		0	0	0	0	0	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	2.250		0	0	0	0	0	0
SEMS	2.250		0	0	0	0	0	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	2.250		0	0	0	0	0	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	2.750		0	0	0	0	0	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	2.250		0	0	0	0	0	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	2.000		0	0	0	0	0	0
RCRA-SQG	2.000		0	0	0	0	0	0
RCRA-VSQG	2.000		0	0	0	0	0	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	2.250		0	0	0	0	0	0
US ENG CONTROLS	2.250		0	0	0	0	0	0
US INST CONTROLS	2.250		0	0	0	0	0	0
<i>Federal ERNS list</i>								
ERNS	1.750		0	0	0	0	0	0
<i>State- and tribal - equivalent NPL</i>								
RESPONSE	2.750		0	0	0	0	0	0
<i>State- and tribal - equivalent CERCLIS</i>								
ENVIROSTOR	2.750		0	0	0	0	0	0
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	2.250		0	0	0	0	0	0
<i>State and tribal leaking storage tank lists</i>								
LUST	2.250		0	0	0	0	0	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	2.250		0	0	0	0	0	0
CPS-SLIC	2.250		0	0	0	0	0	0
State and tribal registered storage tank lists								
FEMA UST	2.000		0	0	0	0	0	0
UST	2.000		0	0	0	0	0	0
AST	2.000		0	0	0	0	0	0
INDIAN UST	2.000		0	0	0	0	0	0
State and tribal voluntary cleanup sites								
VCP	2.250		0	0	0	0	0	0
INDIAN VCP	2.250		0	0	0	0	0	0
State and tribal Brownfields sites								
BROWNFIELDS	2.250		0	0	0	0	0	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	2.250		0	0	0	0	0	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	2.250		0	0	0	0	0	0
SWRCY	2.250		0	0	0	0	0	0
HAULERS	1.750		0	0	0	0	0	0
INDIAN ODI	2.250		0	0	0	0	0	0
DEBRIS REGION 9	2.250		0	0	0	0	0	0
ODI	2.250		0	0	0	0	0	0
IHS OPEN DUMPS	2.250		0	0	0	0	0	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	1.750		0	0	0	0	0	0
HIST Cal-Sites	2.750		0	0	0	0	0	0
SCH	2.000		0	0	0	0	0	0
CDL	1.750		0	0	0	0	0	0
CERS HAZ WASTE	2.000		0	0	0	0	0	0
Toxic Pits	2.750		0	0	0	0	0	0
US CDL	1.750		0	0	0	0	0	0
PFAS	2.250		0	0	0	0	0	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	2.000		0	0	0	0	0	0
HIST UST	2.000		0	0	0	0	0	0
CERS TANKS	2.000		0	0	0	0	0	0
CA FID UST	2.000		0	0	0	0	0	0
Local Land Records								
LIENS	1.750		0	0	0	0	0	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	1.750		0	0	0	0	0	0
DEED	2.250		0	0	0	0	0	0
Records of Emergency Release Reports								
HMIRS	1.750		0	0	0	0	0	0
CHMIRS	1.750		0	0	0	0	0	0
LDS	1.750		0	0	0	0	0	0
MCS	1.750		0	0	0	0	0	0
SPILLS 90	1.750		0	0	0	0	0	0
Other Ascertainable Records								
RCRA NonGen / NLR	2.000		0	0	0	0	0	0
FUDS	2.750		0	0	0	0	0	0
DOD	2.750		0	0	0	0	0	0
SCRD DRYCLEANERS	2.250		0	0	0	0	0	0
US FIN ASSUR	1.750		0	0	0	0	0	0
EPA WATCH LIST	1.750		0	0	0	0	0	0
2020 COR ACTION	2.000		0	0	0	0	0	0
TSCA	1.750		0	0	0	0	0	0
TRIS	1.750		0	0	0	0	0	0
SSTS	1.750		0	0	0	0	0	0
ROD	2.750		0	0	0	0	0	0
RMP	1.750		0	0	0	0	0	0
RAATS	1.750		0	0	0	0	0	0
PRP	1.750		0	0	0	0	0	0
PADS	1.750		0	0	0	0	0	0
ICIS	1.750		0	0	0	0	0	0
FTTS	1.750		0	0	0	0	0	0
MLTS	1.750		0	0	0	0	0	0
COAL ASH DOE	1.750		0	0	0	0	0	0
COAL ASH EPA	2.250		0	0	0	0	0	0
PCB TRANSFORMER	1.750		0	0	0	0	0	0
RADINFO	1.750		0	0	0	0	0	0
HIST FTTS	1.750		0	0	0	0	0	0
DOT OPS	1.750		0	0	0	0	0	0
CONSENT	2.750		0	0	0	0	0	0
INDIAN RESERV	2.750		0	0	0	0	0	0
FUSRAP	2.750		0	0	0	0	0	0
UMTRA	2.250		0	0	0	0	0	0
LEAD SMELTERS	1.750		0	0	0	0	0	0
US AIRS	1.750		0	0	0	0	0	0
US MINES	2.000		0	0	0	0	0	0
ABANDONED MINES	2.000		0	0	0	0	0	0
FINDS	1.750		0	0	0	0	0	0
ECHO	1.750		0	0	0	0	0	0
UXO	2.750		0	0	0	0	0	0
DOCKET HWC	1.750		0	0	0	0	0	0
FUELS PROGRAM	2.000		0	0	0	0	0	0
CA BOND EXP. PLAN	2.750		0	0	0	0	0	0
Cortese	2.250		0	0	0	0	0	0
CUPA Listings	2.000		0	0	0	0	0	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	2.000		0	0	0	0	0	0
EMI	1.750		0	0	0	0	0	0
ENF	1.750		0	0	0	0	0	0
Financial Assurance	1.750		0	0	0	0	0	0
HAZNET	1.750		0	0	0	0	0	0
ICE	1.750		0	0	0	0	0	0
HIST CORTESE	2.250		0	0	0	0	0	0
HWP	2.750		0	0	0	0	0	0
HWT	2.000		0	0	0	0	0	0
MINES	2.000		0	0	0	0	0	0
MWMP	2.000		0	0	0	0	0	0
NPDES	1.750		0	0	0	0	0	0
PEST LIC	1.750		0	0	0	0	0	0
PROC	2.250		0	0	0	0	0	0
Notify 65	2.750		0	0	0	0	0	0
UIC	1.750		0	0	0	0	0	0
UIC GEO	1.750		0	0	0	0	0	0
WASTEWATER PITS	2.250		0	0	0	0	0	0
WDS	1.750		0	0	0	0	0	0
WIP	2.000		0	0	0	0	0	0
MILITARY PRIV SITES	1.750		0	0	0	0	0	0
PROJECT	1.750		0	0	0	0	0	0
CIWQS	1.750		0	0	0	0	2	2
CERS	1.750		0	0	0	0	0	0
NON-CASE INFO	1.750		0	0	0	0	0	0
OTHER OIL GAS	1.750		0	0	0	0	0	0
PROD WATER PONDS	1.750		0	0	0	0	0	0
SAMPLING POINT	1.750		0	0	0	0	0	0
WELL STIM PROJ	1.750		0	0	0	0	0	0
HWTS	1.750		0	0	0	0	0	0
MINES MRDS	1.750		0	0	0	0	0	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	2.750		0	0	0	0	0	0
EDR Hist Auto	1.875		0	0	0	0	0	0
EDR Hist Cleaner	1.875		0	0	0	0	0	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	1.750		0	0	0	0	0	0
RGA LUST	1.750		0	0	0	0	0	0

- Totals --		0	0	0	0	0	2	2
-------------	--	---	---	---	---	---	---	---

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

EDR ID Number
EPA ID Number

A1
SSE
> 1
1.707 mi.
9014 ft.

US SOLAR DESERT CENTER II PHASE I
DESERT CENTER
DESERT CENTER, CA 92239

CIWQS **S121687639**
N/A

Site 1 of 2 in cluster A

Relative:
Higher

CIWQS:

Actual:
694 ft.

Name: US SOLAR DESERT CENTER II PHASE I
Address: DESERT CENTER
City,State,Zip: DESERT CENTER, CA 92239
Agency: US Solar Holdings
Agency Address: PO Box 44485, Phoenix, AZ 85064
Place/Project Type: Construction - Utility: Solar Energy Farm
Region: 7
Program: CONSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water construction
Order Number: 2009-0009-DWQ
WDID: 7 33C359741
NPDES Number: CAS000002
Effective Date: 10/21/2010
Termination Date: 09/02/2011
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 33.6968
Longitude: -115.2656

A2
SSE
> 1
1.707 mi.
9014 ft.

US SOLAR DESERT CENTER II PHASE II
DESERT CENTER
DESERT CENTER, CA 92239

CIWQS **S121687640**
N/A

Site 2 of 2 in cluster A

Relative:
Higher

CIWQS:

Actual:
694 ft.

Name: US SOLAR DESERT CENTER II PHASE II
Address: DESERT CENTER
City,State,Zip: DESERT CENTER, CA 92239
Agency: US Solar Holdings
Agency Address: PO Box 44485, Phoenix, AZ 85064
Place/Project Type: Construction - Utility: Solar Energy Farm
Region: 7
Program: CONSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water construction
Order Number: 2009-0009-DWQ
WDID: 7 33C359748
NPDES Number: CAS000002
Effective Date: 10/21/2010
Termination Date: 09/02/2011
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 33.6968
Longitude: -115.2656

Count: 2 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
DESERT CENTER	S108407375		I-10, 3 MILES W OF STATE ROUTE	92239	CDL
RIVERSIDE COUNTY	S107541240		WINEVILLE, SW CORNER OF GAGELE		CDL

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	12/31/2018	02/05/2020	04/15/2020
CA	CERS	CalEPA Regulated Site Portal Data	California Environmental Protection Agency	01/21/2020	01/22/2020	04/01/2020
CA	CERS HAZ WASTE	CERS HAZ WASTE	CalEPA	01/21/2020	01/22/2020	04/01/2020
CA	CERS TANKS	California Environmental Reporting System (CERS) Tanks	California Environmental Protection Agency	01/21/2020	01/22/2020	04/01/2020
CA	CHMIRS	California Hazardous Material Incident Report System	Office of Emergency Services	12/24/2019	01/22/2020	03/30/2020
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	02/03/2020	02/04/2020	04/09/2020
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	01/31/2020	01/31/2020	04/09/2020
CA	DRYCLEANERS	Cleaner Facilities	Department of Toxic Substance Control	12/04/2019	01/29/2020	04/09/2020
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	04/03/2020	04/07/2020	04/15/2020
CA	ENVIROSTOR	EnviroStor Database	Department of Toxic Substances Control	01/27/2020	01/28/2020	04/09/2020
CA	Financial Assurance 1	Financial Assurance Information Listing	Department of Toxic Substances Control	01/21/2020	01/23/2020	04/01/2020
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	01/27/2020	01/28/2020	04/09/2020
CA	RGA LF	Recovered Government Archive Solid Waste Facilities List	Department of Resources Recycling and Recover		07/01/2013	01/13/2014
CA	RGA LUST	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	01/27/2020	01/28/2020	04/09/2020
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, Victorv	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	01/27/2020	01/28/2020	04/09/2020
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	BRIS	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 Pipeline	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 Lisitng	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 CONTROLS	Institutional Controls Sites List	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

ARICA AND VICTORY PASS
NORTH OF INTERSTATE 10
DESERT CENTER, CA 92239

TARGET PROPERTY COORDINATES

Latitude (North):	33.718724 - 33° 43' 7.41"
Longitude (West):	115.279412 - 115° 16' 45.88"
Universal Transverse Mercator:	Zone 11
UTM X (Meters):	659427.2
UTM Y (Meters):	3732105.0
Elevation:	602 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640274 CORN SPRING, CA
Version Date:	2012
North Map:	5640284 EAST OF VICTORY PASS, CA
Version Date:	2012
Northeast Map:	5639776 PALEN LAKE, CA
Version Date:	2012
East Map:	5641100 SIDEWINDER WELL, 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).

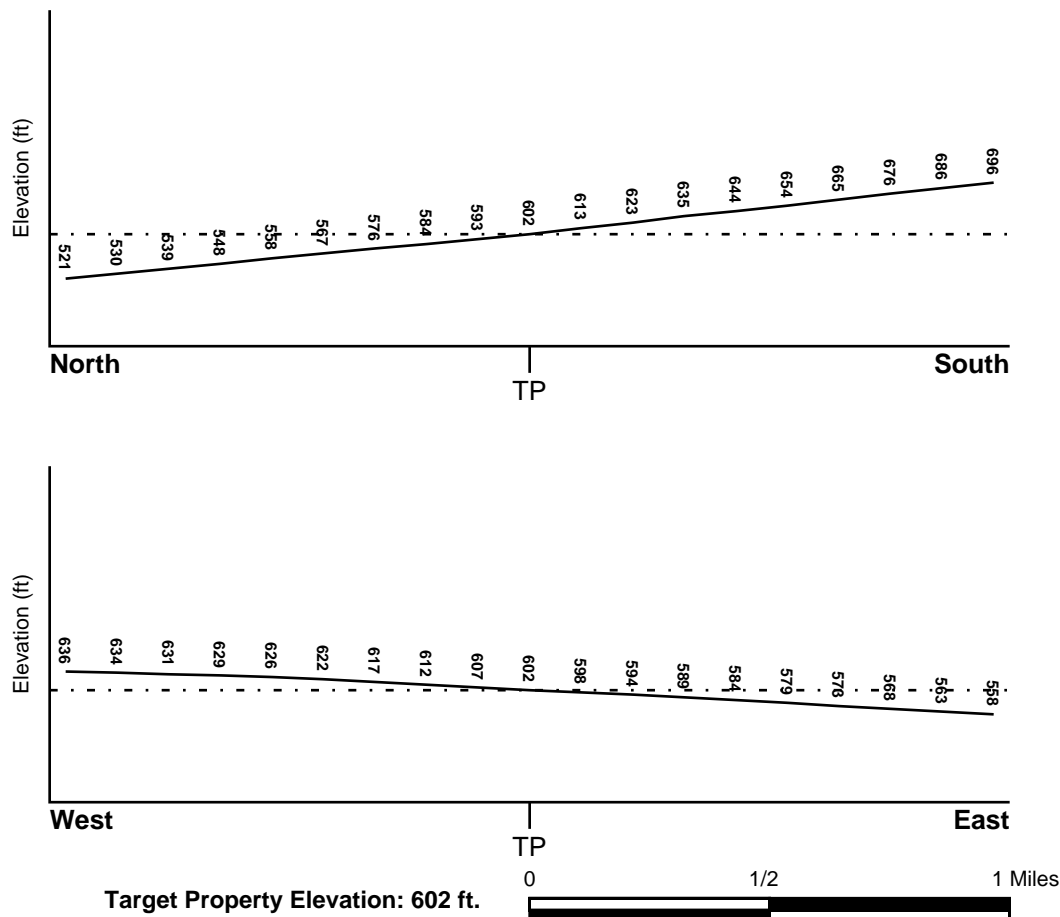
TOPOGRAPHIC INFORMATION

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 NNE

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>
0602452475A	FEMA Q3 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>
CORN SPRING	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 (decoded above as Era, System & Series)

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).

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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: CHERIONI

Soil Surface Texture: very gravelly - sandy loam

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

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 6 inches

Depth to Bedrock Max: > 20 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	2 inches	very gravelly - sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.90
2	2 inches	9 inches	very gravelly - very fine sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.90
3	9 inches	11 inches	indurated	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00
4	11 inches	20 inches	unweathered bedrock	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: extremely gravelly - sandy loam

Surficial Soil Types: extremely gravelly - sandy loam

Shallow Soil Types: cemented
extremely gravelly - sandy loam
very gravelly - sandy clay loam

Deeper Soil Types: stratified

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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	2.750
Federal FRDS PWS	Nearest PWS within 1.750 miles
State Database	2.750

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS40000128494	1 - 2 Miles East
2	USGS40000128492	1 - 2 Miles ESE
3	USGS40000128483	2 - 3 Miles SE
4	USGS40000128491	2 - 3 Miles ESE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

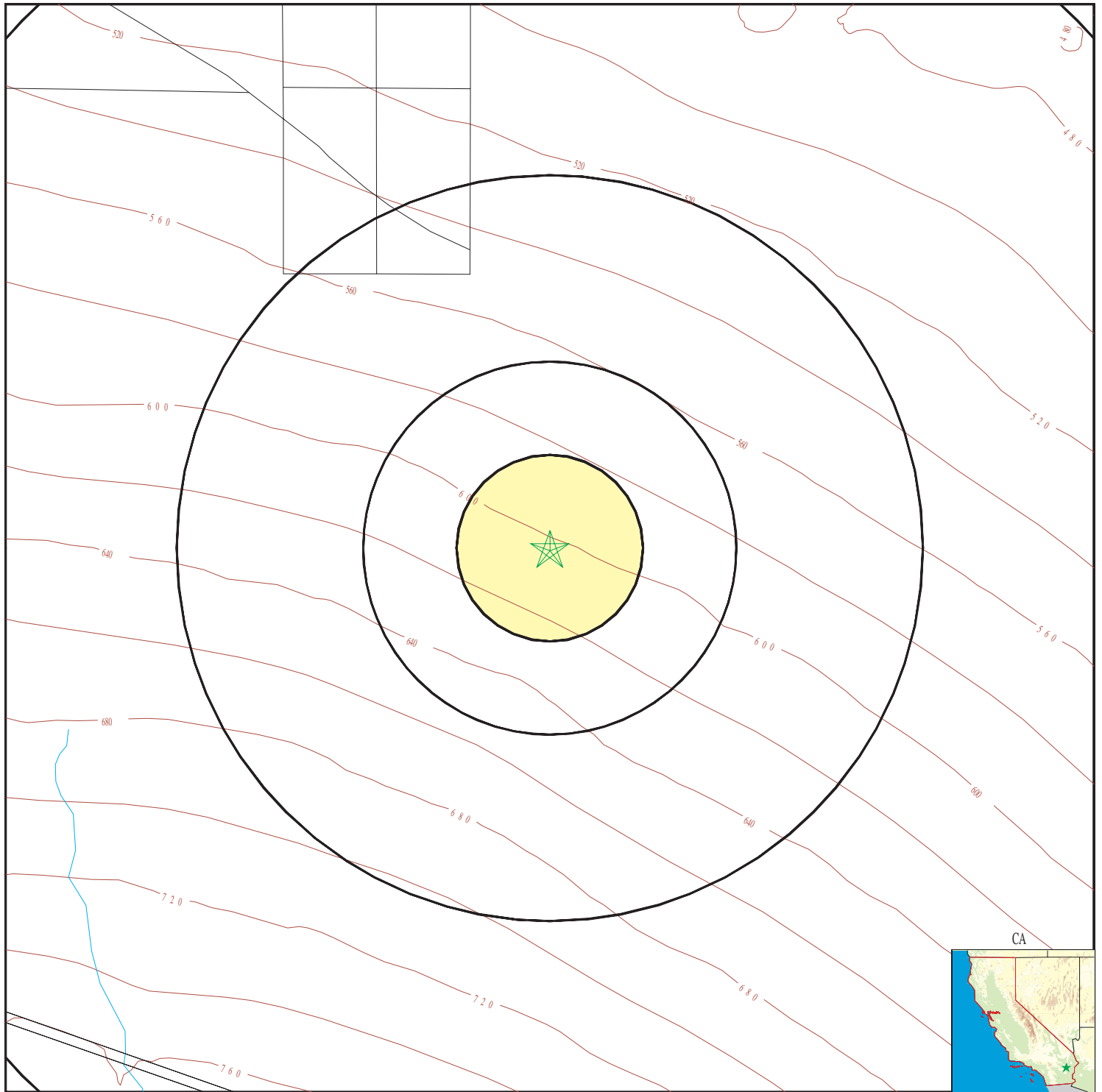
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 6042100.2s



- 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: Arica and Victory Pass
 ADDRESS: North of Interstate 10
 Desert Center CA 92239
 LAT/LONG: 33.718724 / 115.279412

CLIENT: Terracon Consultants, Inc.
 CONTACT: Thomas Johnson
 INQUIRY #: 6042100.2s
 DATE: April 16, 2020 1:14 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
East
1 - 2 Miles
Lower

FED USGS USGS40000128494

Organization ID: USGS-AZ
Monitor Location: 005S017E19Q001S
Description: Not Reported
Drainage Area: Not Reported
Contrib Drainage Area: Not Reported
Aquifer: Not Reported
Aquifer Type: Not Reported
Well Depth: 760
Well Hole Depth: 760

Organization Name: USGS Arizona Water Science Center
Type: Well
HUC: 18100100
Drainage Area Units: Not Reported
Contrib Drainage Area Units: Not Reported
Formation Type: Not Reported
Construction Date: 19580829
Well Depth Units: ft
Well Hole Depth Units: ft

Ground water levels, Number of Measurements: 4
Feet below surface: 82.30
Note: Not Reported

Level reading date: 1992-02-12
Feet to sea level: Not Reported

Level reading date: 1970-05-01
Feet to sea level: Not Reported

Feet below surface: 75.30
Note: Not Reported

Level reading date: 1961-04-20
Feet to sea level: Not Reported

Feet below surface: 76.17
Note: Not Reported

Level reading date: 1961-04-06
Feet to sea level: Not Reported

Feet below surface: 76.18
Note: Not Reported

2
ESE
1 - 2 Miles
Lower

FED USGS USGS40000128492

Organization ID: USGS-AZ
Monitor Location: 005S017E30F001S
Description: Not Reported
Drainage Area: Not Reported
Contrib Drainage Area: Not Reported
Aquifer: Not Reported
Aquifer Type: Not Reported
Well Depth: 698
Well Hole Depth: 720

Organization Name: USGS Arizona Water Science Center
Type: Well
HUC: 18100100
Drainage Area Units: Not Reported
Contrib Drainage Area Units: Not Reported
Formation Type: Not Reported
Construction Date: 19580829
Well Depth Units: ft
Well Hole Depth Units: ft

Ground water levels, Number of Measurements: 3
Feet below surface: 113.12
Note: Not Reported

Level reading date: 1992-03-26
Feet to sea level: Not Reported

Level reading date: 1970-05-01
Feet to sea level: Not Reported

Feet below surface: 110.77
Note: Not Reported

Level reading date: 1961-04-06
Feet to sea level: Not Reported

Feet below surface: 108.37
Note: Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

3
SE
2 - 3 Miles
Higher

FED USGS USGS40000128483

Organization ID:	USGS-AZ	Organization Name:	USGS Arizona Water Science Center
Monitor Location:	005S017E30P001S	Type:	Well
Description:	Not Reported	HUC:	18100100
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1937
Well Depth:	152	Well Depth Units:	ft
Well Hole Depth:	152	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	6	Level reading date:	1992-02-12
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The site was dry (no water level recorded).		
Level reading date:	1961-05-16	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was dry (no water level recorded).		
Level reading date:	1961-04-06	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was dry (no water level recorded).		
Level reading date:	1959-05-18	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was dry (no water level recorded).		
Level reading date:	1958-05-10	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was dry (no water level recorded).		
Level reading date:	1957-05-16	Feet below surface:	150.0
Feet to sea level:	Not Reported	Note:	Not Reported

4
ESE
2 - 3 Miles
Lower

FED USGS USGS40000128491

Organization ID:	USGS-AZ	Organization Name:	USGS Arizona Water Science Center
Monitor Location:	005S017E30G001S	Type:	Well
Description:	Not Reported	HUC:	18100100
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	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

Ground water levels,Number of Measurements:	1	Level reading date:	2000-03-31
Feet below surface:	115.60	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
92239	1	0

Federal EPA Radon Zone for RIVERSIDE County: 2

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level ≥ 2 pCi/L and ≤ 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for RIVERSIDE COUNTY, CA

Number of sites tested: 12

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.117 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.450 pCi/L	100%	0%	0%
Basement	1.700 pCi/L	100%	0%	0%

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

Thomas C. Johnson

Field Geologist

PROFESSIONAL EXPERIENCE

Thomas is a Environmental Field Geologist in Terracon's Colton, CA office. Thomas assists in the data compilation/review and preparation of site work plans, spreadsheets, figures, and technical reports, with a strong emphasis on executing various work scopes, whilst maintaining project schedules, and budgetary goals. Thomas is also gaining experience performing Phase I and Phase II Environmental Site Assessments, and the collection and interpretation/evaluation of soil/groundwater, and air samples.

Project Experience

Undeveloped/Vacant – Highland, California

Environmental Site Assessments on undeveloped and vacant properties.

Commercial Facility – Yucaipa, California

Environmental Site Assessments on distribution and manufacturing facilities.

Undeveloped/Vacant – Lancaster, California

Environmental Site Assessments on undeveloped and vacant properties.

Cell Tower Site – West Hills, California

Environmental Site Assessments on undeveloped and vacant properties.

Commercial Facility – Yucaipa, California

Limited Site Investigation on distribution and manufacturing facilities.

Industrial Yard – Sun Valley, California

Performed an Environmental Site Assessment on an industrial storage/staging yard. Helped client outline permitting process for the installation of a closed-loop oil/water separator system.

EDUCATION

*Bachelor of Science, Geology,
University of California Riverside,
Riverside, CA*

*Associate of Art, Math/Science,
Copper Mountain College, Joshua
Tree, CA*

Work History

*Terracon Consulting, Inc. (Colton)
Field Geologist
October 2019 to Present*

Certificates

*40 Hour OSHA Hazardous Waste
Site & Waste Management Training*

Carl A. Parten

Office Manager, Senior Principal

PROFESSIONAL EXPERIENCE

Mr. Parten has 32 years of experience in environmental consulting in multiple regional regulatory districts throughout the United States. His professional experience includes comprehensive site investigations and remediation studies for Industrial and Hazardous Waste sites, municipal solid waste landfill sites and underground storage tank (UST) facilities.

He has successfully managed and obtained regulatory closure of over 30 Voluntary Cleanup Program (VCP) sites and leaking underground storage tank (LUST) facilities, and coordinated UST removal and closure for numerous facilities in multiple states throughout the United States. Mr. Parten continues to serve as a technical lead with Terracon and he possesses extensive experience in the installation of monitor wells, aquifer characterization, sensitive receptor surveys, risk-based assessments, vapor intrusion (VI) evaluations, and soil-gas assessments. Additionally, he has extensive experience in comprehensive soil and groundwater investigations on industrial facilities and municipal solid waste (MSW) landfill facilities, including evaluation of landfill gas/methane impacts. He has prepared and implemented corrective action work plans for remediation of chlorinated hydrocarbons at dry cleaner facilities and petroleum hydrocarbons at LUST facilities, MSW landfill facilities, and managed and implemented groundwater pump and treat, non-aqueous phase liquid (NAPL) recovery, and dual-phase vapor extraction systems for the recovery of petroleum hydrocarbons. Additionally, Mr. Parten developed work plans and implemented the remediation of heavy metals and poly-nuclear aromatic hydrocarbons (PAHs).

PROJECT EXPERIENCE

Kaiser Permanente, AV Behavioral Health, Lancaster, California

Provided QA/QC for the Phase I ESA for the potential Kaiser Permanente AV Behavioral Health Building that consisted of a 29,245-square-foot (SF) single-story building with a mezzanine, in a multi-tenant commercial/retail shopping center on an approximately 6.12-acre parent tract. Our scope of services included the site



EDUCATION

Bachelor of Science, Geology, Sul Ross State University, Alpine, Texas, 1994

Additional Courses:

University of Houston TCEQ Texas Risk Reduction Program: Mod. I, II, and III
Roadmap to Remediation
CAPM Refresher Course, Texas A&M University
TNRCC Hazardous Waste Seminar
TNRCC PST Risk Assessments Seminar
TNRCC Pollution Prevention Workshop
API Risk/Exposure Assessment
Contaminant Fate and Transport Modeling in Risk Assessment
Environmental Hydrology / Soil Science

REGISTRATIONS

Licensed Professional Geoscientist (P.G.), I.D. # 221, Texas Board of Professional Geoscientists 2003 (current)

Registered Professional Geologist (P.G.), I.D. # 004037; State of Tennessee, May 1996 (current)

TCEQ Corrective Action Project Manager, CAPM #01091 (current)

40 Hour OSHA Hazardous Waste Site & Waste Management Training

AFFILIATIONS

BDA/Orange County
Groundwater Resource Assoc.
Geological Society of America

reconnaissance and soil and soil vapor sampling. Provided QA/QC review of the report before we sent it to the client.

Kaiser Permanente, Primary Care Medical Office Building, Wildomar, California

Project Manager for the Phase I ESA for the potential Kaiser Permanente Primary Care Medical Office Building consisted of an approximately 36-acre tract of generally vacant land. Provided QA/QC review of the report before we sent it to the client.

Industrial Warehouse Facility – La Palma, California

Phase I ESA, comprehensive subsurface investigation and delineation of volatile organic compounds (VOCs), petroleum hydrocarbons TPH) in soil, groundwater and vapor to characterize environmental site conditions and development of response actions. Soil remediation, soil vapor extraction of VOCs, and waste characterization/disposal of impacted environmental media at a large warehouse facility. Active monitoring and additional response actions are on-going. Consulting services included preparation of investigation reports, response action work plans, client interaction and litigation support.

Industrial Warehouse Facility / Demolition / Soil Management – Los Angeles / Union Crossing - California

Phase I ESA, Limited Site Investigation, soil management plan / remediation of impacted soils, underground storage tank / structures management and support services, investigation and delineation of volatile organic compounds (VOCs), petroleum hydrocarbons TPH) in soil, and waste characterization and disposal of impacted environmental media. Consulting services included preparation of investigation reports, response action work plans, client interaction and construction management support.

Industrial Facility – Union City, California

Subsurface investigation and delineation of heavy metals and polynuclear aromatic hydrocarbons (PAHs) in soil to facilitate the development of response actions and waste characterization/disposal of impacted environmental media at a large industrial facility with over sixty years of operations. Consulting services included preparation of investigation reports, response action work plans, and client/regulatory interaction.

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, groundwater, 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 and work plan for management of environmental media.

USARC Facility – Mare Island, California

Environmental team leader for evaluation of an existing 32-acre military facility, Mare Island in California. The teaming effort included the preparation of a Technical Assessment report on the facility to provide

USAR a decision making and programming tool to establish future restoration and replacement upgrades to the facility. The report included an evaluation of existing conditions of the site and facilities with respect to current mission and identified construction costs required to comply with USAR facility standards, Anti-Terrorism/Force Protection requirements, handicapped accessibility regulations, and current building codes. Conceptual costs for related improvements and environmental mitigation were presented.

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 fifty 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.

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 primary client point of contact and environmental technical leader.

Mixed-Use High-rise Building, West Hollywood, California

Conducted comprehensive investigation and assisted the client through enrolling and interacting with the DTSC / VCP regarding chlorinated solvent and heavy metal-impacted soil and groundwater. Provided construction management oversight to manage impacted soils and assisted the client in waste disposition, permitting and regulatory compliance interaction. A total of 52,000 cubic yards of soil was removed from the site and disposed at an off-site facility, prior to the construction of a \$170M high-rise multi-use complex. Terracon's support services allowed for significant savings in construction, on an expedited timeline in concert with the construction schedule.

Underground Storage Tank and Soil Remediation – Regional Water Board, Squaw Valley, CA

Terracon assisted a private developer with the regulatory closure of an underground storage tank (UST) site located in Squaw Valley, California. The abandoned 10,000-gallon UST was responsible for a release of heavy waste oils to the ground surface and banks of a creek. Following disposal of the UST, approximately 70 cubic yards of petroleum-impacted soils were excavated and properly disposed. Interaction with the Regional Water Board and Public Notification resulted in the issuance of case closure.

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. Mr. Parten provided 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.

Soil Remediation – Riverside County Regulatory Oversight, Telecommunications Site, Perris, CA

Terracon assessed the magnitude and extent of a surficial release of petroleum hydrocarbons, developed a work plan, approved by overseeing agency, and conducted remediation, removal and legal disposal of 80 cubic yards of non-hazardous soil.

Municipal Landfill – VCP Site

Successfully oversaw and managed the engineering design and construction quality assurance for the closure and restoration of a high-profile MSW landfill in accordance with regulatory standards, subsequent to significant investigation activities. The remedy consisted of removal and consolidation of wastes and construction of LFG recovery trenches to prevent migration of landfill gas. The remedy utilized engineering controls and removal of impacted media. Project management responsibilities included coordination with Local, State and Federal officials, public/neighborhood communications, and interaction with attorneys, and management of project budgets that exceeded \$4.5 million over seven years. Terracon continues to provide post closure care monitoring and O&M for the site.

Department of Transportation Contract - TX

Successfully managed a two-year environmental services contract with the Texas Department of Transportation (TxDOT) and coordinated multiple Terracon offices to provide geographic coverage of environmental consulting service throughout Texas. Mr. Parten was the liaison to TxDOT for the performance of environmental consulting services, and provided senior technical review of environmental investigations, Phase I ESAs, removal of underground storage tanks, remediation of affected media and waste management, asbestos and lead-based paint investigations, and management of financial metrics and budgets in strict conformance with negotiated fees and procedures under a \$2,000,000 contract.

City-Operated LUST Facilities

Provided senior project management of 14 City operated LUST facilities through coordination of investigation, regulatory reporting and response actions in the pursuit of closure. Mr. Parten was responsible for managing all site activities, evaluation of data, reporting, communicating with local and state officials, and management of budget and schedule requirements.

Municipal Property

Provided senior project management and technical review of several properties, including the remediation of metals and PAH-impacted soils, using a combination of excavation and removal and in-place stabilization. Work was performed under the EPA Brownfields Program and the Voluntary Cleanup Program. The \$1.2 million-dollar remediation project was part of a high-profile downtown parks and recreation redevelopment project that successfully established LEED Certified public parks in areas once occupied by commercial and industrial property. Mr. Parten was responsible for managing all site

activities, evaluation of data, reporting, communicating with local and state officials, and management of budget and schedule requirements.

Retail Shopping Center – VCP Site

Conducted extensive site investigation activities to evaluate the magnitude and extent of chlorinated solvents identified in the vicinity of a former dry cleaners' facility. The chlorinated solvent plume was defined to drinking water standards and was delineated to a creek channel nearly 1,200 feet from the source property. Based on site investigation results, assisted the property owner in entering the site into the VCP, and managed and implemented response actions and treatment of affected media utilizing a combination of source-removal/excavation (750 cubic yards) within the building interiors, hydrogen-releasing compound (HRC®) treatment of backfill, and HRC injection into the underlying soil and groundwater across the site. Treatment technology effectively remediated affected soils and significantly reduced contaminant levels within the on-site source areas. Additional response actions were conducted to reduce on-site groundwater contamination levels through HRC injection at over 250 locations. Monitored natural attenuation and groundwater monitoring was performed for a period of approximately four years. Mr. Parten assisted the client in the establishment of a deed restriction (Municipal Setting Designation) that restricted the use of groundwater on the site. Mr. Parten interacted with City and State officials and prepared and submitted multiple reports documenting site activities and managed a project budget totaling \$1,200,000.

Additional Project Experience

Under the direction and senior technical review by Mr. Parten, final site closure has been obtained for over thirty VCP, Innocent Owner/Operator Program, LUST, and Industrial and Hazardous Waste facilities in multiple states across the United States. Additionally, Mr. Parten has coordinated and managed the removal of dozens of underground storage tank (UST) systems and remediation of contaminated soil and groundwater. Mr. Parten has provided expert testimony on multiple projects and is a primary point of contact interacting with environmental attorneys and regulatory agencies.

Todd G. McFarland, PG, CHG

DEPARTMENT MANAGER

PROFESSIONAL EXPERIENCE

Mr. McFarland has over 19 years of experience as a professional geologist and hydrogeologist, in over 200 site characterization and remediation projects throughout California. He is an environmental Department Manager for Terracon's Colton office. Mr. McFarland has been involved with geotechnical investigations, well design and construction, aquifer testing, Phase I and II ESAs, including agricultural, petroleum, and industrial properties; and remediation mitigation for commercial, industrial and LUST/LUFT projects. Mr. McFarland's expertise includes hydrogeology, contaminant transport in soil and groundwater, soil and groundwater remediation, and California UST Cleanup Fund regulations for commercial properties, government agencies and major oil companies.

His areas of expertise includes Phase I & II Environmental Assessments, Hazardous Waste Site Investigations, LUST/LUFT Site Investigation and Remediation (soil, vapor, and groundwater) Hydrogeology, Contaminant Fate & Transport, Well Design and Construction, Remedial Strategy and Design, California UST Cleanup Fund and Triad Approach Investigation Methods.

PRESENTATIONS

Blythe Commingled Plume Project, California Regional Water Quality Control Board, Colorado River Basin Region, La Quinta, CA, November 2005. Prepared and presented a 30-minute multimedia presentation to the Water Board summarizing the project accomplishments and status.

Blythe Commingled Plume Project, California Water Resources Control Board, Underground Storage Tank Cleanup Fund, Sacramento, CA, December 2005, and April 2008. Coordinated, prepared and presented project information and recommendations to the UST Cleanup Fund.

Chevron OneTeam Meeting, Brea, CA, May 2007. Presented multimedia presentation on the application of Compound Specific Isotope Analysis for 1,2-DCA, in support of natural attenuation.

Chevron OneTeam Meeting, Irvine, CA, May 2012. Presented multimedia safety presentation detailing groundwater pump-and-treatment systems.

Yucaipa Valley Gem & Mineral Society, Yucaipa, CA, March 2015. Presented multimedia presentation on California water and groundwater production.

PROJECT EXPERIENCE

Charis Corporation/US Army, Aquifer and Well Evaluation, Fort Irwin, California

Project Geologist for the identification, assessment and testing of domestic and agricultural wells associated with the expansion of Ft. Irwin military base. Responsible for field mapping, staff and logistics coordination, subcontractor management, well pumping, mine shaft mapping and collection of samples for heavy metal analytical testing. [2001-2002]

Bechtel, Mountain View Power Plant Expansion Project, Loma Linda, California

Project Geologist support for pump test and analytical testing of new production well within the Bunker Hill Basin. Sampling and testing of water for Title 22, perchlorate and TCE to determine well viability, and ability to discharge surplus water to Santa Ana River. [2003]

Herzog, Rail Line Rehabilitation Project, San Bernardino, California

Project Geologist for compliance monitoring, soil sampling and remediation management of soils during rail line rehabilitation. Project work conducted for BNSF under their oversight and safety management guidelines. Managed daily soil screening, mobile laboratory analysis oversight and directed soil excavation and segregation for offsite disposal of hydrocarbon and solvent impacted soils. [2002]

EDUCATION

Bachelor of Science, Hydrogeology, Northern Arizona University, 1998

AA, Art/Architecture, Pasadena City College, 1992

REGISTRATIONS

California Professional Geologist, PG #7685

California Certified Hydrogeologist, CHG #979

CERTIFICATIONS

GIS Certification, University of California, Riverside, 2017

40-Hour OSHA Hazardous Materials Training

8-Hour OSHA Supervisory and Confined Space Training

8-Hour LPS/OSHA Refresher (current)

CPR/First Aid Certified (current)

LPS 8-Hour Training Certification, 5/2006

16-Hour Chevron EMC CSOC Training, 11/2007

Defensive Driving Course, 6/2006

DOT-Basic HazMat Training, 5/2007

Title 22 California-Hazardous Waste Generator Training, 5/2007

Lean Six Sigma Training, 3/2011

Cost Engineering and Cost Loaded Scheduling and Training, 4/2011 & 3/2012

WORK HISTORY

Terracon Consultants, Inc., Department Manager, 2018-Present

AECOM, Sr. Project Manager/Sr. Hydrogeologist, 2013-2018

HFA, Sr. Geologist/Sr. Project Manager, 2009-2013, Assoc. Geologist/Sr. Geologist/Project Manager/Office Manager, 2004-2009

Geo-Cal, Inc., Project Geologist, 2003 – 2004

CHJ, Inc., Staff Geologist, 1998-2003

Amtrak, 8th Street Amtrak Yard ROW Investigation, Los Angeles, California

Project Geologist for Phase I & II assessments along ROWs within the active rail yard for proposed ROW exchange. Project work included drilling and soil sampling adjacent to active rail lines associated with train maintenance and wash rack. Reporting and recommendations for soil remediation options. [2002]

Chevron and ExxonMobil, Service Station and Terminal Facility Management, Southern and Northern California

Project/Senior Geologist and Project Manager for portfolio of underground storage tank facilities. Managed schedule, costs and project work for numerous retail service station and bulk tank facilities. Scoped and executed assessment and remedial efforts targeted to model and remove contaminants. Geological logging and drilling oversight for the installation of numerous shallow and deep monitoring wells within unconsolidated and over-consolidated soils. Develop and execute aquifer, soil vapor extraction, and air sparge testing to determine feasibility of remedial options. Prepare conceptual site models to evaluate project data and develop remedial action plans and human health risk assessments. Collaborate with engineers to design, build and execute remedial systems for treatment of petroleum impacted soil and groundwater. Responsible for direct interaction with client and regulators to develop and execute strategies. [2003 to present]

Chevron EMC, 1,2-DCA Plume Investigation, Santa Barbara, California

Project Geologist and Project Manager. Conducted assessment and modeling of groundwater that included the evaluation of carbon isotopes to determine contaminant origin and rate of destruction. [2006 - 2008]

Chevron EMC, MTBE Groundwater Plume Investigation and Remediation, San Juan Capistrano California

Senior Geologist and Project Manager for two underground storage tank facilities that allegedly affected the City's water production supply. Scoped and executed assessment and remedial efforts targeted to model and remove benzene and MTBE. Installed and operated in-situ soil and groundwater remedial systems. Geological logging and drilling oversight for the installation of numerous shallow and deep monitoring and remediation wells. Testing and evaluation of City's production wells. Attend and participate in public hearings, plan and participate in planning and design review meetings. Conduct client meetings and provide project details to client's legal team. [2010 to 2013]

Confidential Client, Crafon-Redlands Perchlorate Plume Investigation, Mentone, California

Project Geologist for underground storage tank facility. Geological logging and drilling oversight for the installation of deep monitoring wells within the Crafon-Redlands Plume using rotary casing hammer and sonic drilling rigs. Collection of soil and groundwater samples to evaluation aquifer for petroleum hydrocarbons, including MTBE and perchlorate. Conduct soil vapor extraction pilot testing for in-situ soil remediation of hydrocarbon impacts. [2003 to 2004]

City of Rialto, Landfill Investigation and Post-Closure Monitoring, Rialto, California. Project Geologist for landfill closure and post-closure investigations and monitoring. On going monitoring of water quality beneath and surrounding the boundary limits of landfill. Statistical analysis and reporting of water quality data to determine trends and stability post-closure. [2003 to 2004]

City of Los Angeles, Community Park Development, Lead Removal, California

Project Geologist for development of a community park. Planned, coordinated, and conducted assessment and remediation of aerial deposited lead within a residential community. Conducted lead dust monitoring, excavation activities and verification sampling and reporting. [2003]

Confidential Client, Federal Social Security Building Development, San Bernardino, California

Project Geologist for compliance monitoring and soil sampling during over-excavation of unpermitted landfill from the 1920's. Soil sampling/analysis, soil management and excavation of lead-impacted soils. [2002]

City of Blythe, Citywide Commingled Plume Investigation, Blythe, California

Project Manager for city wide commingled plume assessment and remedial cleanup of 7 commingled plumes (over 30 individual sites) related to petroleum releases to groundwater. Conducted large-scale site assessment, well installation and remedial actions including soil vapor extraction, dual-phase extraction, free-product extraction and soil excavation. Managed complex financial contract and UST

Cleanup Fund reimbursement. Responsible for direct interaction with client (City), UST Cleanup Fund and California's Water Board to develop and execute strategies. [2005 to 2009]

AFCEC, Industrial Waste Line Removal and Vapor Intrusion Risk Assessment, Former Norton Air Force Base, San Bernardino, California

Senior hydrogeologist for evaluation of soil and soil vapor sampling. Conducted closure report review, human health risk assessment modeling and evaluation, and closure recommendations. Evaluation and reporting resulted in obtaining closure from DTSC. [2014]

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
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 (cont.)

Term/Acronym	Description
CREC	Controlled Recognized Environmental Condition is defined in ASTM E 1527-13 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
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 E 1527-13 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.”
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.

Description of Selected General Terms and Acronyms (cont.)

Term/Acronym	Description
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	Pico Curies 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.
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 Pico Curies 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 list is part of the RCRIS database maintained by EPA and lists facilities that generate hazardous waste as part of their normal business operations, as more particularly defined under Section 4.1 of this report.
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; or 3) under conditions that pose a material threat of a future release to the environment. <i>De minimis</i> conditions are not recognized environmental conditions."
SCL	State "CERCLIS" List (see SPL /State Priority List, below).

Description of Selected General Terms and Acronyms (cont.)

Term/Acronym	Description
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	National Priorities List, as more particularly described under the Records Review section of this report.
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.
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	Solid Waste Facility
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.
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 E1527-05, 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	Voluntary Cleanup Program
VOC	Volatile Organic Compound

Term/Acronym	Description
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>