

Phase I Environmental Site Assessment

Sandy Properties

3484 and 3400 Little Cottonwood Road

Sandy, Salt Lake County, Utah

July 5, 2017

Terracon Project No. 61177354



Prepared for:

Valbridge Property Advisors / Sandy City
Salt Lake City, Utah

Prepared by:

Terracon Consultants, Inc.
Midvale, Utah

terracon.com

Terracon

Environmental



Facilities



Geotechnical



Materials



July 5, 2017

Valbridge Property Advisors
1100 East 6600 South, Suite 201
Salt Lake City, Utah 84121

Attn: Ms. Becky Jones
P: (801) 262-7893
E: bjones@valbridge.com


Re: Phase I Environmental Site Assessment
Sandy Properties
3484 and 3400 Little Cottonwood Road
Sandy, Salt Lake County, Utah 84070
Terracon Project No. 61177354

Dear Ms. Jones:

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 Terracon Proposal No. P61177354, dated June 12, 2017.

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.


Tina Cheney
ESA Group Manager


Benjamin B. Bowers
Environmental Department Manager

Attachments

Terracon Consultants Inc. 6949 South High Tech Drive, Ste 100 Midvale, UT 84047-3707

P 801-545-8500 F 801-545-8600 terracon.com



Environmental

Facilities

Geotechnical

Materials

TABLE OF CONTENTS

Page No.

EXECUTIVE SUMMARY	i
Findings and Opinions	i
Significant Data Gaps	ii
Conclusions	ii
Recommendations	ii
1.0 INTRODUCTION	1
1.1 Site Description	1
1.2 Scope of Services.....	1
1.3 Standard of Care	2
1.4 Additional Scope Limitations, ASTM Deviations and Data Gaps.....	2
1.5 Reliance.....	3
1.6 Client Provided Information.....	3
2.0 PHYSICAL SETTING	4
3.0 HISTORICAL USE INFORMATION	5
3.1 Historical Topographic Maps, Aerial Photographs, Sanborn Maps.....	5
3.2 Historical City Directories.....	6
3.3 Site Ownership	6
3.4 Title Search.....	7
3.5 Environmental Liens and Activity and Use Limitations	7
3.6 Interviews Regarding Current and Historical Site Uses.....	7
3.7 Prior Report Review	8
4.0 RECORDS REVIEW.....	8
4.1 Federal and State/Tribal Databases.....	8
4.2 Local Agency Inquiries.....	10
5.0 SITE RECONNAISSANCE	10
5.1 General Site Information.....	10
5.2 Overview of Current Site Occupants	11
5.3 Overview of Current Site Operations.....	11
5.4 Site Observations	11
6.0 ADJOINING PROPERTY RECONNAISSANCE.....	14
7.0 ADDITIONAL SERVICES	15
8.0 DECLARATION.....	15

TABLE OF CONTENTS (continued)

APPENDICES

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

EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was performed in accordance with Terracon Proposal No. P61177354, dated June 12, 2017, 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 Tina Cheney, Environmental Professional. Ms. Cheney performed the site reconnaissance on June 29, 2017.

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 approximately 10 acres and includes three parcels (28-11-427-038, 28-11-427-089, and 28-11-427-009). There are two residences, a trailer, several sheds, and seven cell antennas.

Historical Information

Based on the historical review, the site and surrounding properties were undeveloped in 1937. In 1954 Cal Richardson purchased the property. By 1958 structures were visible on the north side of the site, and by 1962 the current residence was built. By 1981 the northern portion of the site appears to be used for storage of equipment and miscellaneous debris, and additional storage was added on the south and southeast portions in the late 1990s. A new shed was built by 2009. There was a fire on the east side of the site in 2015.

The property to the northwest was undeveloped until a water tower was built in the 1950s. In the 1980s the storage of equipment and miscellaneous debris from the site overflowed to the northwest property, and by 1997 Wasatch Boulevard was built, and followed by residences. The northeast property was developed with residential homes added by 1981. The property to the east was undeveloped until the 1950s, when a small structure was observed. By 2006 the structure was removed and a trail was observed to the east, with a parking lot at the trailhead by 2011. The south-adjointing property has remained undeveloped, and a residential neighborhood was added farther south by 1993. The west-adjointing property has remained undeveloped, with Wasatch Boulevard farther to the west by 1997, followed by residences.

Records Review

The site was not identified on the regulatory database searched at this time. The property to the northeast, Davenport and Flagstaff Smelters, was identified on the NLP and SEMS databases. The site is not located within the boundary of concern for the former smelters, and appears to be

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

Site Reconnaissance

Based on the site reconnaissance, there were piles of metal, wood, appliances, cars, stained soil, containers of waste oil, and an area that had been burned by a fire. The stained soil appeared to be *de minimis* in nature. A shed with numerous containers of paints, stains, roof sealants, and other miscellaneous chemicals was observed, but no obvious signs of staining or spillage was observed within this area; however, most of the floor was covered with containers and was not visible.

Adjoining Properties

To the north is Little Cottonwood Road, followed by residences, and to the east are the Bells Canyon parking, trailhead, and trail. To the south is undeveloped land, followed by a residential neighborhood. To the west is undeveloped land, Wasatch Boulevard and residences, and to the northwest is overflow parking for Bells Canyon.

Significant Data Gaps

The site was covered with storage of equipment, metal, wood, and other items collected over the last 40 plus years. The ground surface was not visible in several areas due to the storage materials and the tall seasonal grasses. This is a significant limitation, and areas of concern could have been overlooked. In our site interview, Mr. Richardson indicated he will be removing everything from the site.

Conclusions

We have performed a Phase I ESA consistent with the procedures included in ASTM Practice E1527-13 at 3384 and 3400 Little Cottonwood Road, Sandy, Salt Lake County, Utah, the site. No RECs were identified in connection with the site.

Recommendations

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

- n **Additional Investigation:** After Mr. Richardson has removed the drums and equipment from the site, Terracon should re-inspect the site to see if there are additional areas of concern that could not be identified due to obstructions.
- n It is Terracon's understanding that the current structures of the site will be demolished and removed in the future. Terracon recommends that in addition to building materials, soil should be sampled in the area of the previous fire to assess whether asbestos fibers were released to the surrounding soil.

1.0 INTRODUCTION

1.1 Site Description

Site Name	Sandy Properties
Site Location/Address	3384 and 3400 Little Cottonwood Road Sandy, Salt Lake County, Utah
Land Area	Approximately 10-acres
Site Improvements	Two residences are on the site, approximately 1850 square feet, and a 300-square-foot dome.
Anticipated Future Site Use	Unknown
Purpose of the ESA	Acquiring the site

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

1.2 Scope of Services

This Phase I ESA was performed in accordance with Terracon Proposal No. P61177354, dated June 12, 2017, and was conducted consistent with the procedures included in ASTM E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of this ESA was to assist the client in developing information to identify RECs in connection with the site as reflected by the scope of this report. This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, interviews, including local government inquiries, as applicable, and a visual noninvasive reconnaissance of the site and adjoining properties. Limitations, ASTM deviations, and significant data gaps (if identified) are noted in the applicable sections of the report.

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

1.3 Standard of Care

This ESA was performed in accordance with generally accepted practices of this profession, undertaken in similar studies at the same time and in the same geographical area. We have endeavored to meet this standard of care, but may be limited by conditions encountered during performance, a client-driven scope of work, or inability to review information not received by the report date. Where appropriate, these limitations are discussed in the text of the report, and an evaluation of their significance with respect to our findings has been conducted.

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

1.4 Additional Scope Limitations, ASTM Deviations and Data Gaps

Based upon the agreed-on scope of services, this ESA did not include subsurface or other invasive assessments, vapor intrusion assessments or indoor air quality assessments (i.e. evaluation of the presence of vapors within a building structure), business environmental risk evaluations, or other services not particularly identified and discussed herein. Credentials of the company (Statement of Qualifications) have not been included in this report but are available upon request. Pertinent documents are referred to in the text of this report, and a separate reference section has not been included. Reasonable attempts were made to obtain information within the scope and time constraints set forth by the client; however, in some instances, information requested is not, or was not, received by the issuance date of the report. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted hereunder. This ESA was further limited by the following:

- n The site was covered with storage of equipment, metal, wood, and other items collected over the last 40 plus years. The ground surface was not visible in several areas due to the storage of materials and the tall seasonal grasses. This is a significant limitation, and areas of concern could have been overlooked. In our site interview, Mr. Richardson indicated he will be removing everything from the site.

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

This report represents our service to you as of the report date and constitutes our final document; its text may not be altered after final issuance. Findings in this report are based upon the site's current utilization, information derived from the most recent reconnaissance and from other activities described herein; such information is subject to change. Certain indicators of the presence of hazardous substances or petroleum products may have been latent, inaccessible, unobservable, or not present during the most recent reconnaissance and may subsequently become observable (such as after site renovation or development). Further, these services are not to be construed as legal interpretation or advice.

1.5 Reliance

This ESA report is prepared for the exclusive use and reliance of Valbridge Property Advisors and Sandy City. Use or reliance by any other party is prohibited without the written authorization of Valbridge Property Advisors, Sandy City, 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, the client's representative, was asked to provide the following user questionnaire information as described in ASTM E1527-13 Section 6.

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		

The client did not provide the requested User's information as of the issuance date of the report, which represents a data gap. Terracon assumes the client is evaluating the questionnaire information outside the context of Terracon's Phase I ESA scope of work and report.

2.0 PHYSICAL SETTING

Physical Setting

Physical Setting Information		Source
Topography (Refer to Appendix A for an excerpt of the Topographic Map)		
Site Elevation	Approximately 5,320 feet above sea level	USGS Topographic Map, Draper Quadrangle, 2014
Surface Runoff/ Topographic Gradient	Sloping towards the west.	
Closest Surface Water	Lower Bells Canyon Reservoir, approximately 1,600 feet southeast of the site.	
Soil Characteristics		
Soil Type	Stony land	Web Soil Survey http://websoilsurvey.nrc.s.usda.gov/app/HomePage.htm
Description	Landform: Drainage ways, moraines.	
Geology/Hydrogeology		
Formation	Qtp: Till of Pinedale Age	Utah Geological Survey http://geology.utah.gov/apps/intgeomap/index.html
Description	Poorly sorted bouldery till that forms prominent moraines. As mapped, may include some colluvium, talus and landslide debris	

Physical Setting Information		Source
Estimated Depth to First Occurrence of Groundwater	Greater than 35 feet	Davenport Smelter (sample 300 feet northeast of site)
*Hydrogeologic Gradient	Not known - may be inferred to be parallel to topographic gradient (primarily to the west-northwest).	

* 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, to help identify RECs associated with past uses. Copies of selected historical documents are included in Appendix C.

3.1 Historical Topographic Maps, Aerial Photographs, Sanborn Maps

Readily available historical USGS topographic maps, selected historical aerial photographs (at approximately 10- to 15-year intervals) and historical fire insurance maps produced by the Sanborn Map Company were reviewed 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.

- n Topographic map: Draper, Utah, published **1952, 1963, 1970, 1975 and 1998** (1:24,000)
- n Aerial photograph: EDR, **1937, 1947, 1952, 1958, 1962, 1965, 1971, 1977, 1981, 1983, 1993, 1997, 2006, 2009, 2011**, scale 1" = 500'

Historical Topographic Maps and Aerial Photographs

Direction	Description
Site	Most of the site appears to be undeveloped (1937-1952); there is a dirt road and structures on the north side of the site (1958); a residence is on the northern portion of the property (1962-1977); the north side of the site appears to have a lot of storage (1981-1993); there is a clearing in the center of the site (1997); storage of trailers and vehicles is on the center and eastern portion of the site (2006); a new shed is near the center of the site (2009-2011).

Direction	Description
Northwest	Appears to be undeveloped, followed by a rural residence (1937-1952); a water tower is under construction, and depicted on the 1963 topographic map (1958-1965); a larger water tower has been added to the northwest, and now there are two towers (1971-1981); only the large tower is on the property, and storage from the site has migrated to the northwest property (1983-1993); a new road had been built, followed by residences (1997-2011).
Northeast	A dirt road followed by undeveloped land (1937-1965); the dirt road appears to be paved (1971-1977); residences are across the road (1981-2011).
East	Appears to be undeveloped (1937-1952); a structure is depicted near the road (1958-1997); the structure has been removed, and there is a clearing and trail (2006); a parking lot is along the road (2011).
South	Appears to be undeveloped (1937-1983); undeveloped land, followed by a residential neighborhood (1993-2011).
West	Appears to be undeveloped (1937-1993); undeveloped land, followed by a new road and residences (1997-2011).

3.2 Historical City Directories

The city directories used in this study were made available through EDR (selected years reviewed: 1926 to 2014) and were reviewed at approximate five-year intervals, if readily available. Since these references are copyright protected, reproductions are not provided in this report. Street listings not available prior to 1980. The current street address for the site was identified as 3340, 3384 and 3400 Little Cottonwood Road.

Historical City Directories

Direction	Description
Site	3340 East Little Cottonwood Road: Cal Richardson (1980); Fit it man repair shop / Cal Richardson (1985); not listed (1995-2014) 3384 East Little Cottonwood Road: No listings (1980-2014) 3400 East Little Cottonwood Road: No listings (1980-2000), Residential (2007), no listings (2014)
North	9820 South Wasatch Boulevard: No listings (1980-2014)
East	3450 East Little Cottonwood Road: No listings (1980-2014) 3470 East Little Cottonwood Road: Residential (1980-1995)
South	3315 to 3417 East 9980 South: No listings (1980-2014)
West	Based on the undeveloped nature, no address was identified

3.3 Site Ownership

Based on a review of information obtained from the Salt Lake County Assessor's records, the current site owner is Bruce Richardson (APN 28-11-427-038) and Order of Tranquility (APNs 28-

11-427-009 & 28-11-427-089). According to Mr. Richardson, he owns the site, and Order of Tranquility is his company.

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

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.

While not requested by the client, 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. Based on its limited nature, this review does not constitute a review of AULs per ASTM E1527-13.

3.6 Interviews Regarding Current and Historical Site Uses

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

Interview

Interviewer	Interviewee/Phone #	Title	Date
Tina Cheney	Bruce Richardson / 801-918-6808	Owner	June 2017

Mr. Richardson stated his parents moved onto the site in 1954. He stated there are drums of tractor oil, used waste oil, and a backhoe that has staining of hydraulic fluid. Mr. Richardson said they perform minor auto repair and oil changes of their own vehicles on the eastern portion of the site. In 2015 there was a fire on the eastern portion of the site that burned a trailer, a vehicle, and a shed. He stated that his father built a 444,000-gallon concrete water tank that is buried on the east side of the site. The water tower on the west side of the site was previously located on the west-adjointing property.

Mr. Richardson was not aware of any pending, threatened or past environmental litigation, proceedings or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the site.

3.7 Prior Report Review

Terracon requested the client provide any previous 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, and 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
SMES (former CERCLIS)	Comprehensive Environmental Response, Compensation, & Liability Information System	0.5	1
SMES - ARCHIVE (former 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	1
NPL (Delisted)	National Priorities Delisted List	0.5	0

Database	Description	Distance (miles)	Listings
RCRA CORRACTS/ TSD	RCRA Corrective Action Activity	1	0
RCRA Generators	Resource Conservation and Recovery Act	Site and adjoining properties	0
RCRA Non-CORRACTS/ TSD	RCRA Non-Corrective Action Activity	0.5	0

State/Tribal Databases

Database	Description	Distance (miles)	Listings
Brownfields	Brownfields Assessment Sites	0.5	0
IC	Institutional Controls Sites	Site	0
LUST	Leaking Underground Storage Tanks	0.5	0
SHWS	State Hazardous Waste Sites	0.5	0
SWF/LF	Solid Waste Facilities/Landfills	0.5	0
UST	Underground Storage Tanks	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
Davenport and Flagstaff Smelters	Approximately 200 feet north-east /	NPL, SEMS	No, based on file review discussed below

Davenport and Flagstaff Smelters

The Davenport and Flagstaff Smelter property is approximately 200 feet northeast of the site and is identified on the SEMS and NLP databases. The smelters were constructed around 1870 at

the mouth of Little Cottonwood Canyon, and they processed lead and silver. The smelters stopped operation in 1879, and the land was used for agricultural purposes until the 1970s. Contaminants of concern were lead and arsenic in the soil. The property was divided into three Operable Units (OU). OU2 was closest to the site, which consisted of contaminated soil within commercial and undeveloped areas. The groundwater was not impacted by the contamination at the property. Area 1, approximately 300 feet northeast of the site, contained a slag layer up to 6 feet deep, and 6,607 tons of contaminated soil and slag were removed from this area. Institutional Controls are in place for areas within the OU. The site is not located within the boundary of concern for the former smelters and is topographically higher in elevation from the former smelter area and is not considered to be an REC to the site.

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

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

4.2 Local Agency Inquiries

Agency Contacted/ Contact Method	Response
Salt Lake County Environmental Health Division / JMaxfield@slco.org	According to Ms. Maxfield of the health department, there was a complaint filed that cars, tanks, earth-moving equipment were being stored there and it was a junk yard. An anonymous note said there was a court ordered cleanup meeting on June 17, 2008.
Sandy City / saltlakecityut@mycusthelp.net	Ms. Downs, of Sandy City, indicated no building permit files for the site were identified. She had not received a response from the fire department at the issuance of this report.
DERR Interactive Map / http://enviro.deq.utah.gov/	No regulated facilities were identified on the DERR Interactive Map that were not reported in the database report.

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. Exhibit 2 in Appendix A is a Site Diagram of the site. 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	Tina Cheney
Reconnaissance Date	June 26, 2017
Weather Conditions	Sunny, 80s
Site Contact/Title	Bruce Richardson / owner

Building Description				
Building Identification	Building Use	Approx. Construction Date	Number of Stories	Approx. Size (ft ²)
3364 E. Little Cottonwood Rd.	Residence	1942	1	1,850
Mr. Richardson's home	Residence	~1993	1	~300

Site Utilities	
Drinking Water	Sandy City
Wastewater	Sandy City
Electric	Rocky Mountain Power
Natural Gas	Questar Gas

5.2 Overview of Current Site Occupants

The site is approximately 10 acres and includes three parcels (28-11-427-038, 28-11-427-089, and 28-11-427-009). There are two residences, a trailer, several sheds, and seven cell antennas.

5.3 Overview of Current Site Operations

The site is residential with over 40 years of collecting equipment, vehicles, parts, and other miscellaneous debris.

5.4 Site Observations

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

Site Characteristics

Category	Item or Feature	Observed or Identified
Site Operations, Processes, and Equipment	Emergency generators	
	Elevators	

Category	Item or Feature	Observed or Identified
	Air compressors	X
	Hydraulic lifts	
	Dry cleaning	
	Photo processing	
	Ventilation hoods and/or incinerators	
	Waste treatment systems and/or water treatment systems	
	Heating and/or cooling systems	
	Paint booths	
	Sub-grade mechanic pits	
	Wash-down areas or carwashes	
	Pesticide/herbicide production or storage	
	Printing operations	
	Metal finishing (e.g., electroplating, chrome plating, galvanizing, etc.)	
	Salvage operations	
	Oil, gas or mineral production	
	Other processes or equipment	
Aboveground Chemical or Waste Storage	Aboveground storage tanks	X
	Drums, barrels and/or containers ³ 5 gallons	X
	MSDS or SDS	
Underground Chemical or Waste Storage, Drainage or Collection Systems	Underground storage tanks or ancillary UST equipment	
	Sumps, cisterns, French drains, catch basins and/or dry wells	
	Grease traps	
	Septic tanks and/or leach fields	
	Oil/water separators, clarifiers, sand traps, triple traps, interceptors	
	Pipeline markers	
	Interior floor drains	
Electrical Transformers/ PCBs	Transformers and/or capacitors	X
	Other equipment	

Category	Item or Feature	Observed or Identified
Releases or Potential Releases	Stressed vegetation	
	Stained soil	X
	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	
	Wastewater lagoons	
	Wells	

Site Operations, Processes, and Equipment

Air compressors

One air compressor was observed in a shed, south of the main residence on the site. Staining was observed on the compressor; however, the ground surface could not be seen. The staining appeared to be *de minimis*.

Aboveground Chemical or Waste Storage

Aboveground storage tanks

An approximately 500-gallon diesel AST was located on the east side of the site. According to Mr. Richardson, he has only re-fueled the tank once, and there were only about 20 gallons left in the tank. A plastic liner was observed beneath the AST, and no staining was observed. The AST does not represent an REC to the site.

Drums, barrels and/or containers ³ 5 gallons

Approximately four 55-gallon steel drums were observed near the residence at the site. Mr. Richardson stated that the drums contained tractor oil. The drums were on a wood crate, and no staining was observed.

Approximately ten 55-gallon blue plastic drums were observed throughout the site. Mr. Richardson stated the drums have a salt solution for making jerky. No staining was observed near these drums, and the contents are not hazardous in nature.

Four 55-gallon steel drums of waste oil were observed on the east side of the site. Staining was observed on the ground near the drums. However, the drums did not appear to be leaking, and the staining was most likely due to overfill or spills while moving the oil in the drip pan to the drums. The staining appeared to be surficial and a *de minimis* condition.

Mr. Richardson said he is going to remove the drums and stained soil from the site.

Electrical Transformers/ PCBs

Transformers and/or capacitors

One pad-mounted transformer, owned and serviced Rocky Mountain Power, was observed on the west side of the site. One pole-mounted transformer was observed on the south side of the site. No information with regard to PCB content of the transformer fluids was observed in association with the pole-mounted transformer, a PCB Free sticker was observed on the pad-mounted transformer. Some transformers contain mineral oil which may contain PCBs. Several smaller dry-type transformers were also observed throughout the interior areas of the site.

Rocky Mountain Power maintains responsibility for the transformers, and if the transformers were “PCB contaminated,” the utility company is not required to replace the transformer fluids until a release is identified. Leaks, stains, or spills were not observed in association with the transformers, and they are not considered a REC to the site at this time.

Releases or Potential Releases

Stained soil

Stained soil, approximately 8 square feet in size, was observed beneath the backhoe on the site. Mr. Richardson said the staining was hydraulic fluid, and that he would remove the stained soil. The staining appeared to be surficial and a *de minimis* condition.

Trash debris and/or other waste materials

The site had a significant amount of storage on the site. The storage included empty drums, appliances, scrap metal, old equipment, car parts, tires, batteries (stored on cardboard), and wood. A portion of the site was burned in a fire in 2015, including a shed and trailer.

6.0 ADJOINING PROPERTY RECONNAISSANCE

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

Adjoining Properties

Direction	Description
North	Little Cottonwood Road, followed by residences.
East	Bells Canyon parking lot and trailway.
South	Vacant land, followed by residences.
West	Vacant land, Wasatch Boulevard, followed by residences.
Northwest	Bells Canyon overflow parking

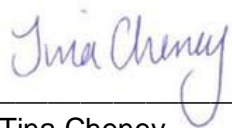
RECs were not observed with the adjoining properties.

7.0 ADDITIONAL SERVICES

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

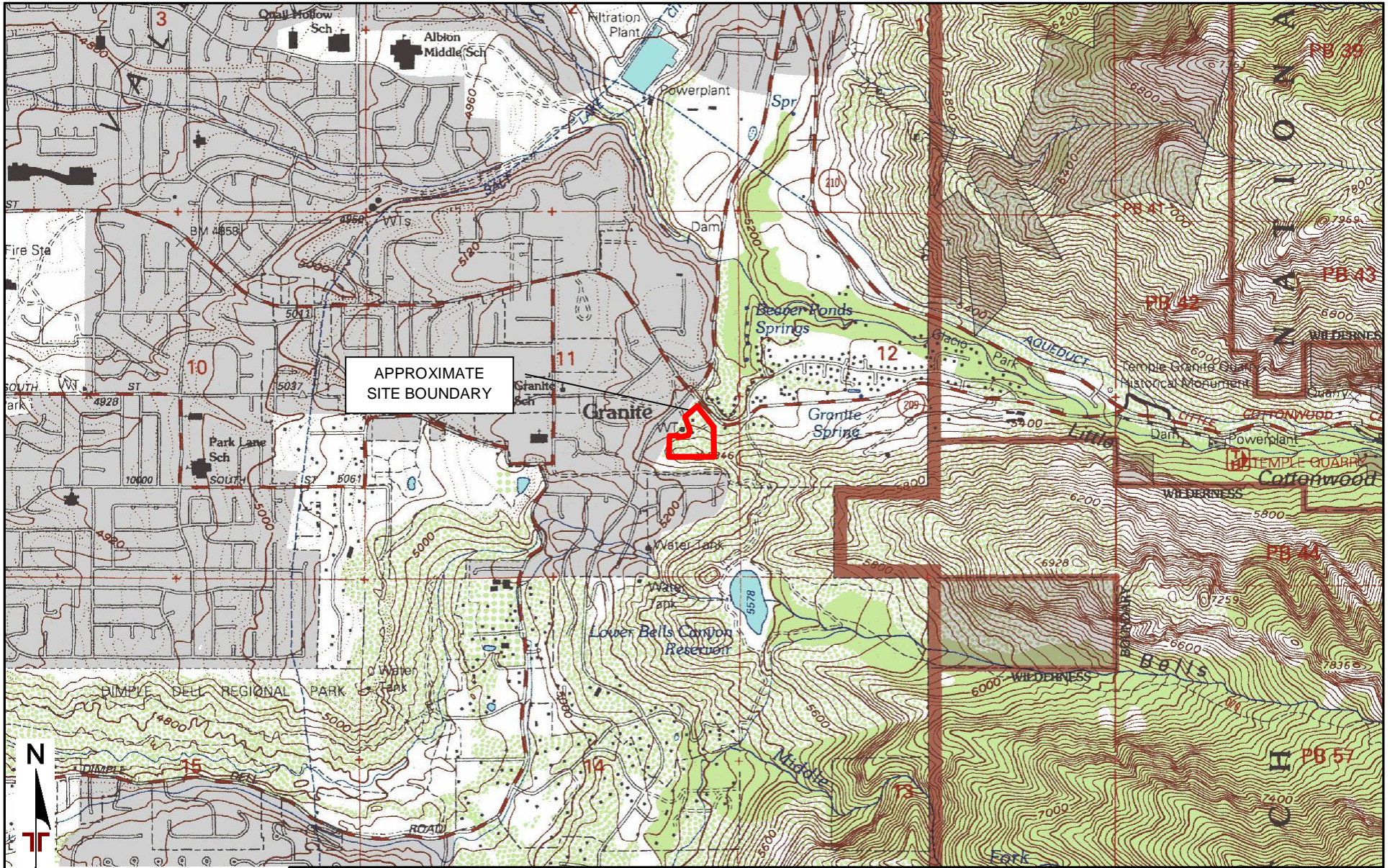
8.0 DECLARATION

I, Tina Cheney, 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.



Tina Cheney
ESA Group Manager

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



APPROXIMATE
SITE BOUNDARY



TOPOGRAPHIC MAP IMAGE COURTESY OF
THE U.S. GEOLOGICAL SURVEY
QUADRANGLES INCLUDE: DRAPER, UT
(1/1/1998).

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

Project Manager:	TC	Project No.	61177354
Drawn by:	TC	Scale:	1"=2,000'
Checked by:	BB	File Name:	Ex. 2
Approved by:	BB	Date:	July 2017

Terracon
6949 S High Tech Drive, Ste. 100
Midvale, UT 84047-3707

TOPOGRAPHIC MAP

Sandy Properties
3384 and 3400 Little Cottonwood Road
Sandy, UT

Exhibit
1



AERIAL PHOTOGRAPHY PROVIDED BY MICROSOFT BING MAPS

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

Project Manager:	TC	Project No.	61177354
Drawn by:	TC	Scale:	AS SHOWN
Checked by:	BB	File Name:	Ex. 2
Approved by:	BB	Date:	July 2017

Terracon

6949 S High Tech Dr Ste 100
Midvale, UT 84047-3707

SITE DIAGRAM

Sandy Properties
3384 and 3400 Little Cottonwood Road
Sandy, UT

Exhibit
2

APPENDIX B
SITE PHOTOGRAPHS

Site Photographs

Sandy Properties ■ Sandy, Utah

Date Photos were taken: June 29, 2017 ■ Terracon Project No. 61177354



Photo #1 Driveway on the northwest side of the site.



Photo #2 Trailer and parts on the west side of the site.



Photo #3 Tractor oil on the site.



Photo #4 Storage on the site, west of the residences.



Photo #5 Years of collecting stored on the site.



Photo #6 Old propane tank on the site, never used on the site.

Responsive ■ Resourceful ■ Reliable

Site Photographs

Sandy Properties ■ Sandy, Utah

Date Photos were taken: June 29, 2017 ■ Terracon Project No. 61177354

Terracon



Photo #7 Rusted drums and signs on the north side of the site.



Photo #8 Residence where Cal Richardson lives, as well as storage.



Photo #9 Empty 55-gallon drums and a mill machine south of the residence.



Photo #10 Trailer with 5-gallon buckets of fly ash.



Photo #11 A backhoe on the site.



Photo #12 Soil staining of hydraulic fluid from the backhoe.

Responsive ■ Resourceful ■ Reliable

Site Photographs

Sandy Properties ■ Sandy, Utah

Date Photos were taken: June 29, 2017 ■ Terracon Project No. 61177354

Terracon



Photo #13 One of the 7 cell antennas on the site.



Photo #14 South side of the site – steep slope down, about 60 feet to property line.



Photo #15 Garden on the southeast side of the site.



Photo #16 Pole-mounted transformer on the southeast side of the site.



Photo #17 An engine on the ground, by a truck full of engines on the east side of the site.



Photo #18 Batteries stored on cardboard on the site,.

Site Photographs

Sandy Properties ■ Sandy, Utah

Date Photos were taken: June 29, 2017 ■ Terracon Project No. 61177354



Photo #19 Drums of waste oil on the east side of the site.



Photo #20 Staining observed by the drums of waste oil; no active leaking was observed.



Photo #21 Three 55-gallon drums in the area of the 2015 fire, believed to be empty.



Photo #22 Structure that burned in a fire.



Photo #23 Trailer that had burned in the fire.



Photo #24 Stained soil under the vehicle in the area of the fire.

Site Photographs

Sandy Properties ■ Sandy, Utah

Date Photos were taken: June 29, 2017 ■ Terracon Project No. 61177354



Photo #25 500-gallon diesel AST on the site.



Photo #26 A plastic liner was observed beneath the tank. No staining was observed.



Photo #27 A small shed full of paint.



Photo #28 The blue 55-gallon drums on the site are filled with a salt solution for making jerky.



Photo #29 Empty drums on the site.



Photo #30 View of cars on the site.

Site Photographs

Sandy Properties ■ Sandy, Utah

Date Photos were taken: June 29, 2017 ■ Terracon Project No. 61177354



Photo #31 Bruce Richardson's home.



Photo #32 View northwest across the site, near the center of the east side.



Photo #33 Storage in one of the sheds.



Photo #34 Storage in one of the sheds, an air compressor was observed.



Photo #35 Pad-mounted transformer on the west side of the site.



Photo #36 North-adjointing intersection at Wasatch Blvd and Little Cottonwood Canyon.

Site Photographs

Sandy Properties ■ Sandy, Utah

Date Photos were taken: June 29, 2017 ■ Terracon Project No. 61177354



Photo #37 Northeast-adjointing residential properties across Little Cottonwood Road.



Photo #38 East-adjointing Bells Canyon parking lot, and trailhead, looking southeast.



Photo #39 Southeast-adjointing residences.



Photo #40 South-adjointing residences.



Photo #41 West-adjointing overflow parking for Bells Canyon.



Photo #42 West-adjointing property across Wasatch Blvd.

APPENDIX C
HISTORICAL DOCUMENTATION AND USER QUESTIONNAIRE

Sandy Properties

3384 & 3400 Little Cottonwood Road

Sandy, UT 84092

Inquiry Number: 4972202.4

June 20, 2017

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

06/20/17

Site Name:

Sandy Properties
3384 & 3400 Little Cottonwood
Sandy, UT 84092
EDR Inquiry # 4972202.4

Client Name:

Terracon, Inc.
6949 South High Tech Drive
Midvale, UT 84047
Contact: Tina Cheney



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Terracon, 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.#	61177354	Latitude:	40.571021 40° 34' 16" North
Project:	61177354	Longitude:	-111.799379 -111° 47' 58" West
		UTM Zone:	Zone 12 North
		UTM X Meters:	432336.67
		UTM Y Meters:	4491445.10
		Elevation:	5323.99' above sea level

Maps Provided:

2014
1998
1975
1970
1963
1952
1928
1925

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Topo Sheet Key

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

2014 Source Sheets



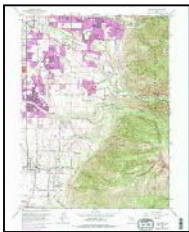
Draper
2014
7.5-minute, 24000

1998 Source Sheets



Draper
1998
7.5-minute, 24000
Aerial Photo Revised 1993

1975 Source Sheets



Draper
1975
7.5-minute, 24000
Aerial Photo Revised 1975

1970 Source Sheets



Draper
1970
7.5-minute, 24000
Aerial Photo Revised 1969

Topo Sheet Key

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

1963 Source Sheets



Draper
1963
7.5-minute, 24000
Aerial Photo Revised 1962

1952 Source Sheets



Draper
1952
7.5-minute, 24000
Aerial Photo Revised 1950

1928 Source Sheets

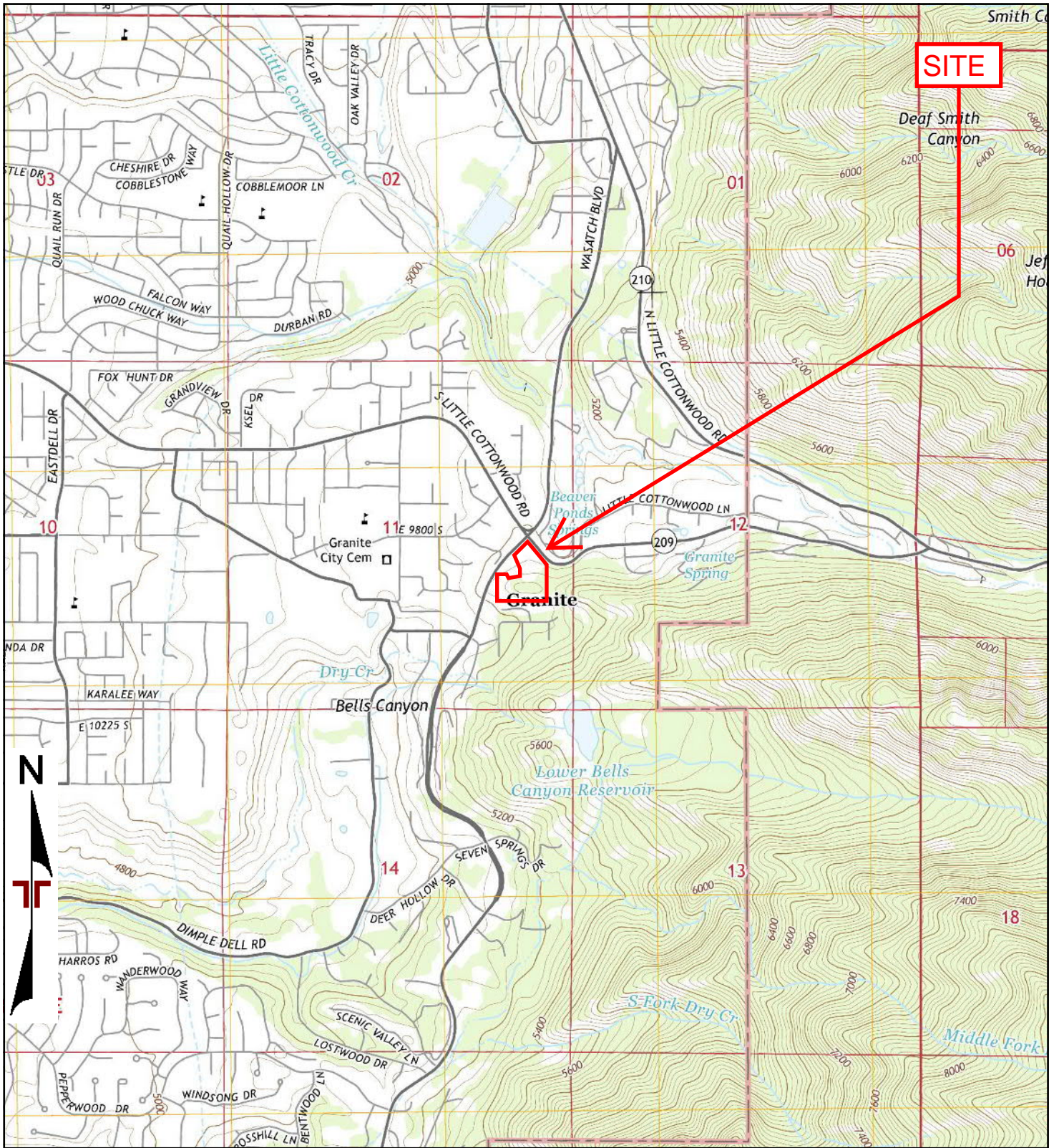


Ft. Douglas
1928
30-minute, 125000

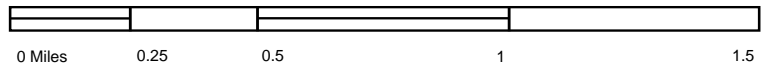
1925 Source Sheets



Ft. Douglas
1925
30-minute, 125000



TP, Draper, 2014, 7.5-minute

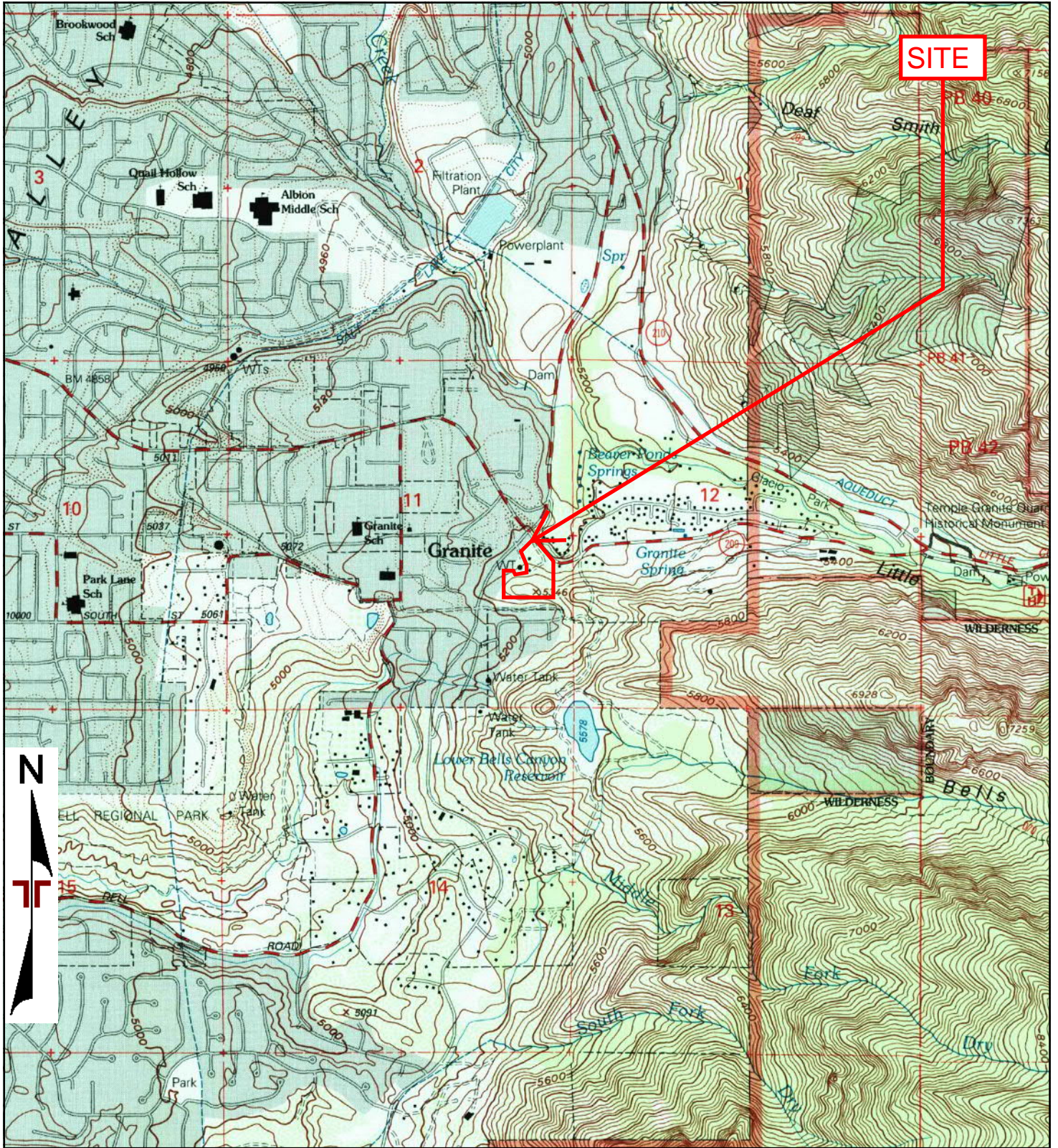


Project Manager:	Project No. 61177354
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 2014

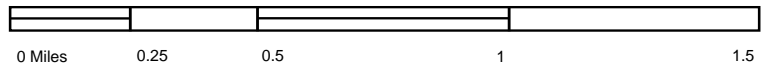
Terracon
6949 South High Tech Drive
Midvale, UT 84047

2014 TOPOGRAPHIC MAP
Sandy Properties
3384 & 3400 Little Cottonwood Road
Sandy, UT 84092

Appendix
C



TP, Draper, 1998, 7.5-minute

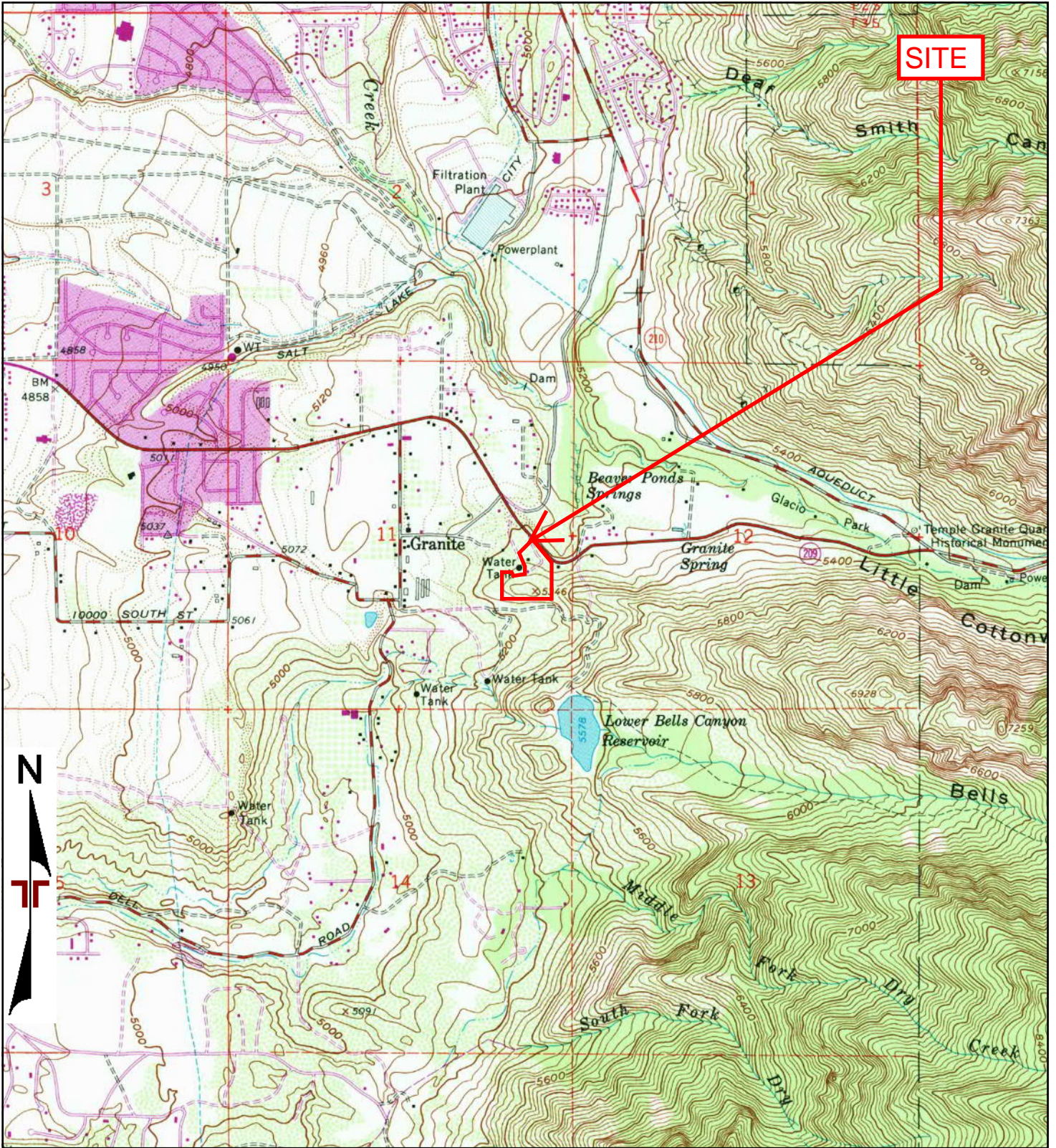


Project Manager:	Project No. 61177354
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 1998

6949 South High Tech Drive
 Midvale, UT 84047

1998 TOPOGRAPHIC MAP
Sandy Properties
 3384 & 3400 Little Cottonwood Road
 Sandy, UT 84092

Appendix
C



TP, Draper, 1975, 7.5-minute

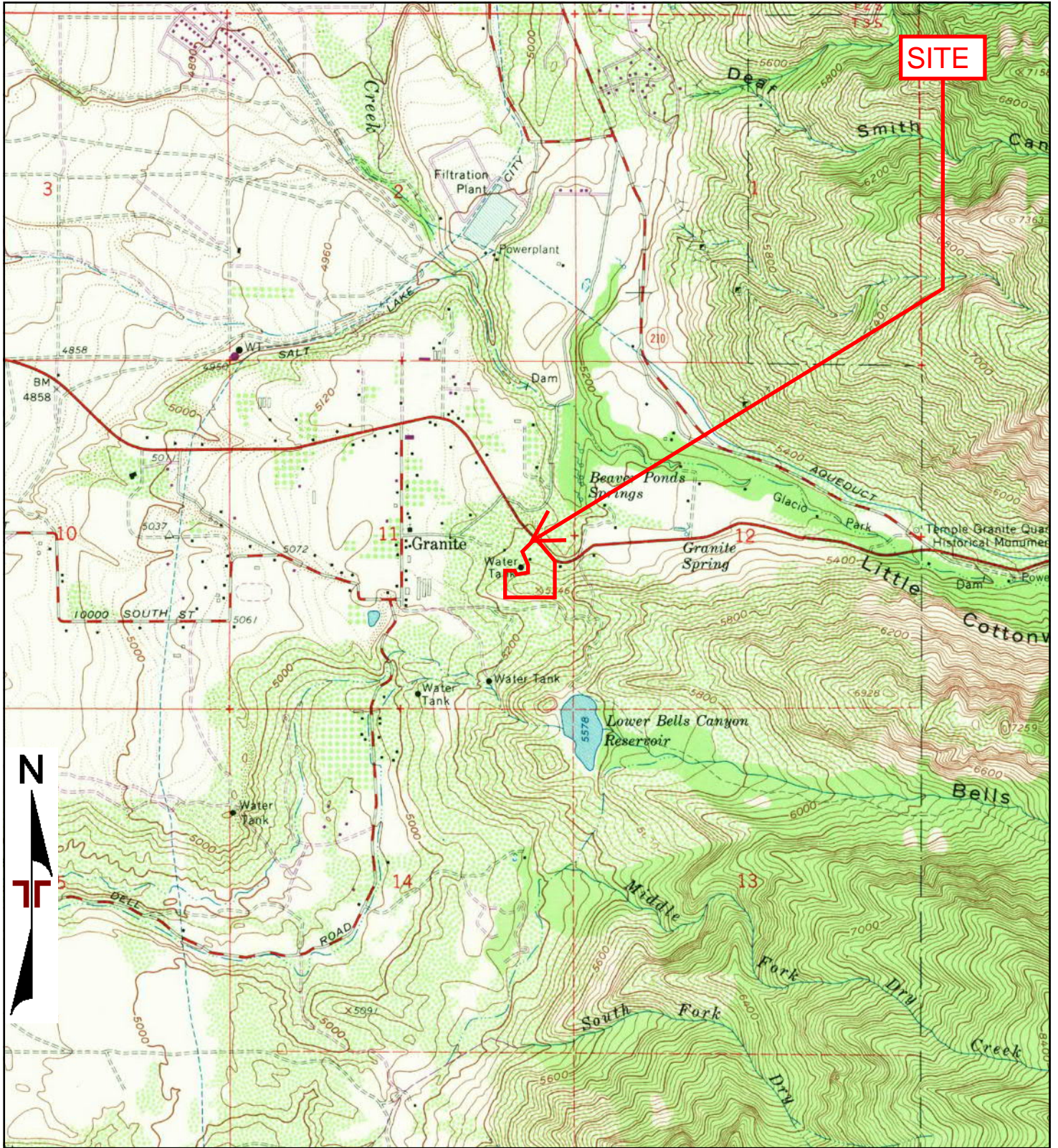


Project Manager:	Project No. 61177354
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 1975

6949 South High Tech Drive
 Midvale, UT 84047

1975 TOPOGRAPHIC MAP
Sandy Properties
 3384 & 3400 Little Cottonwood Road
 Sandy, UT 84092

Appendix
C



TP, Draper, 1970, 7.5-minute

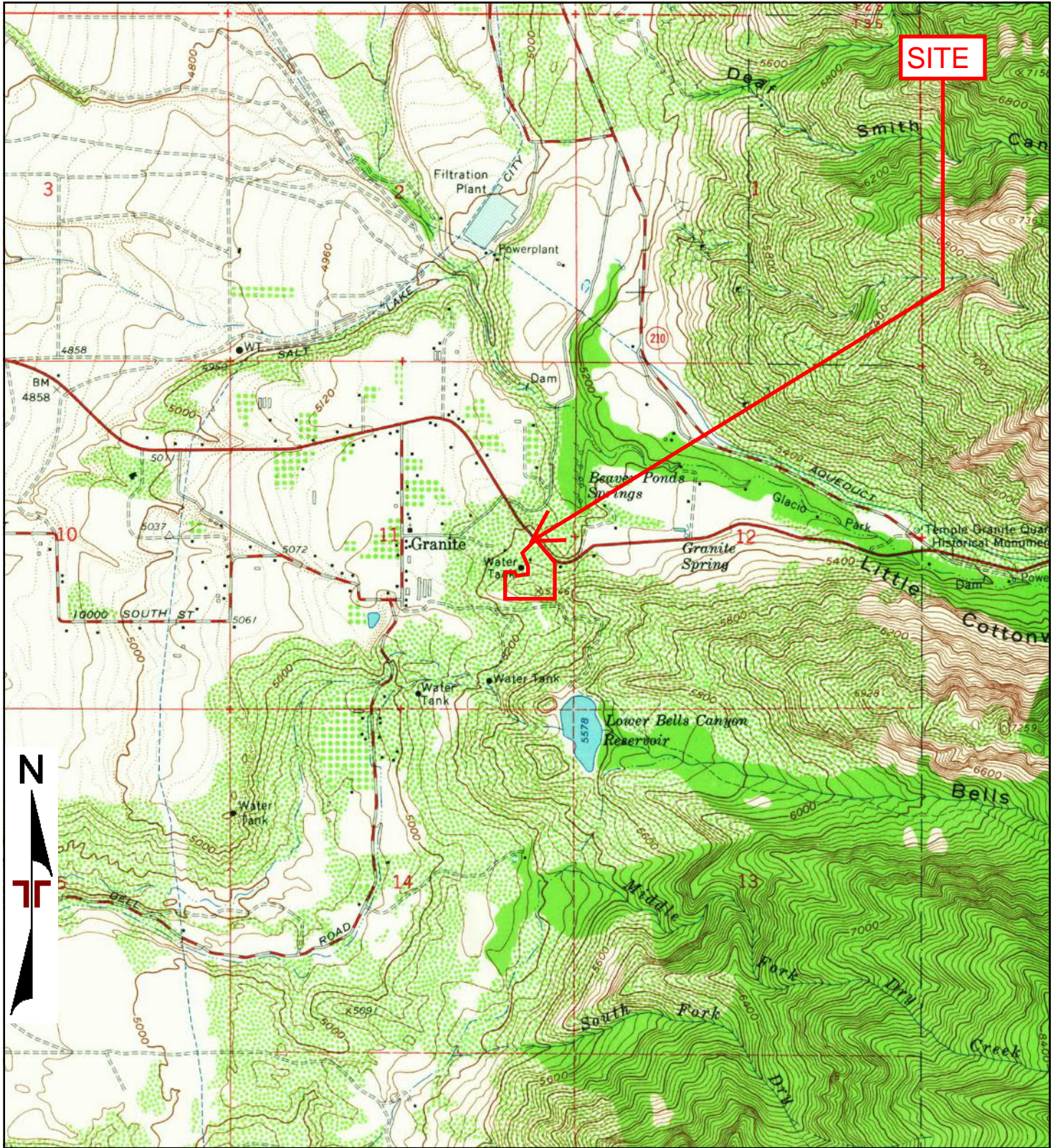


Project Manager:	Project No. 61177354
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 1970

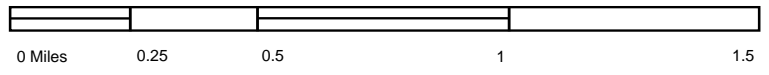
Terracon
6949 South High Tech Drive
Midvale, UT 84047

1970 TOPOGRAPHIC MAP
Sandy Properties
3384 & 3400 Little Cottonwood Road
Sandy, UT 84092

Appendix
C



TP, Draper, 1963, 7.5-minute

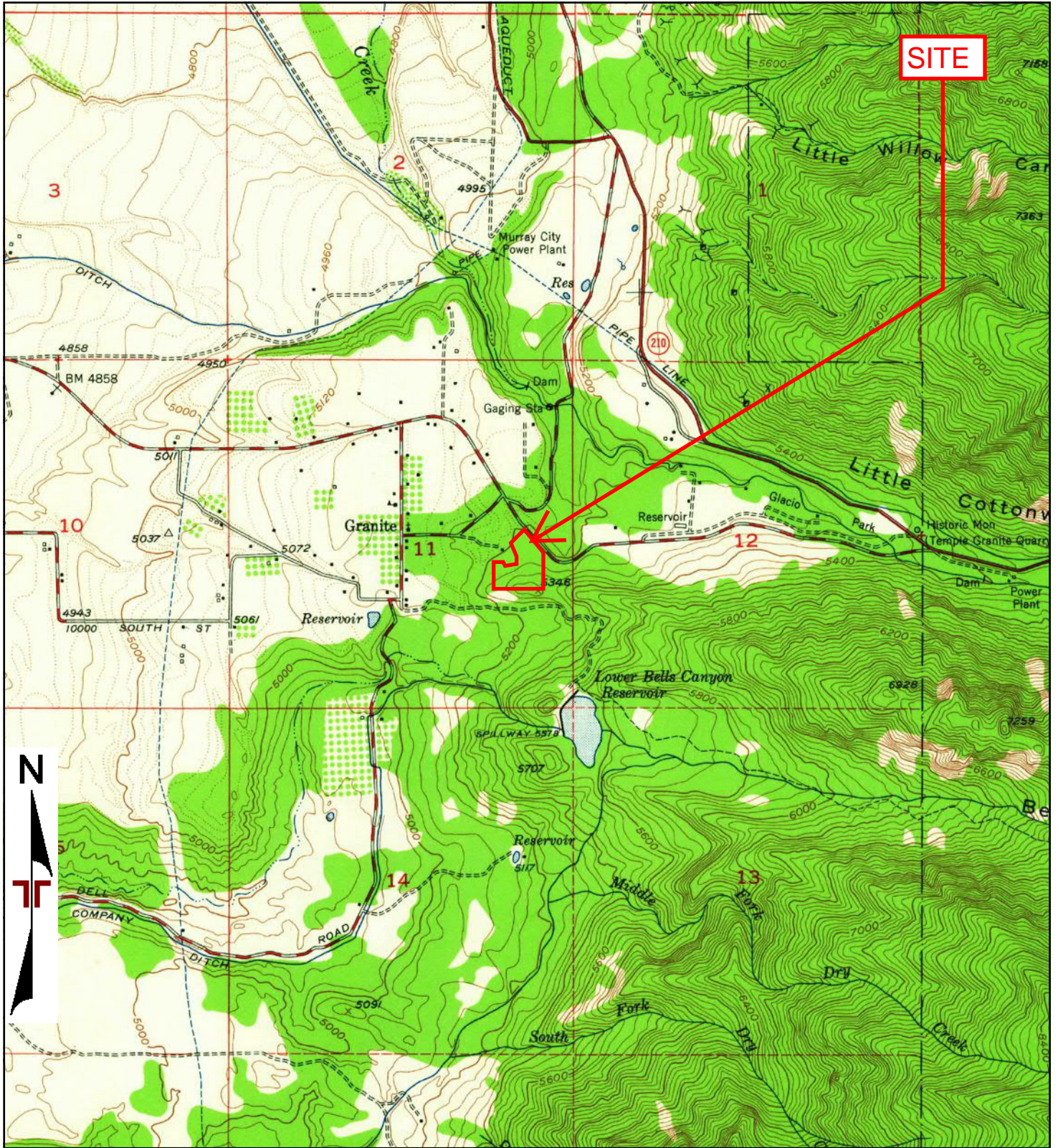


Project Manager:	Project No. 61177354
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 1963

6949 South High Tech Drive
 Midvale, UT 84047

1963 TOPOGRAPHIC MAP
Sandy Properties
 3384 & 3400 Little Cottonwood Road
 Sandy, UT 84092

Appendix
C



TP, Draper, 1952, 7.5-minute



Project Manager:	Project No. 61177354
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 1952

6949 South High Tech Drive
 Midvale, UT 84047

1952 TOPOGRAPHIC MAP
Sandy Properties
 3384 & 3400 Little Cottonwood Road
 Sandy, UT 84092

Appendix
C



Sandy Properties

3384 & 3400 Little Cottonwood Road

Sandy, UT 84092

Inquiry Number: 4972202.9

June 21, 2017

The EDR Aerial Photo Decade Package



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

Site Name:

Sandy Properties
 3384 & 3400 Little Cottonwood
 Sandy, UT 84092
 EDR Inquiry # 4972202.9

Client Name:

Terracon, Inc.
 6949 South High Tech Drive
 Midvale, UT 84047
 Contact: Tina Cheney



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>
2011	1"=500'	Flight Year: 2011	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1997	1"=500'	Acquisition Date: September 12, 1997	USGS/DOQQ
1993	1"=500'	Flight Date: August 14, 1993	USGS
1983	1"=500'	Flight Date: August 27, 1983	USGS
1981	1"=500'	Flight Date: April 08, 1981	USGS
1977	1"=500'	Flight Date: June 28, 1977	USDA
1971	1"=500'	Flight Date: October 19, 1971	USDA
1965	1"=500'	Flight Date: July 26, 1965	USDA
1962	1"=500'	Flight Date: August 02, 1962	USGS
1958	1"=500'	Flight Date: September 20, 1958	USDA
1952	1"=500'	Flight Date: September 03, 1952	USDA
1947	1"=500'	Flight Date: September 20, 1947	USGS
1937	1"=500'	Flight Date: October 09, 1937	USDA

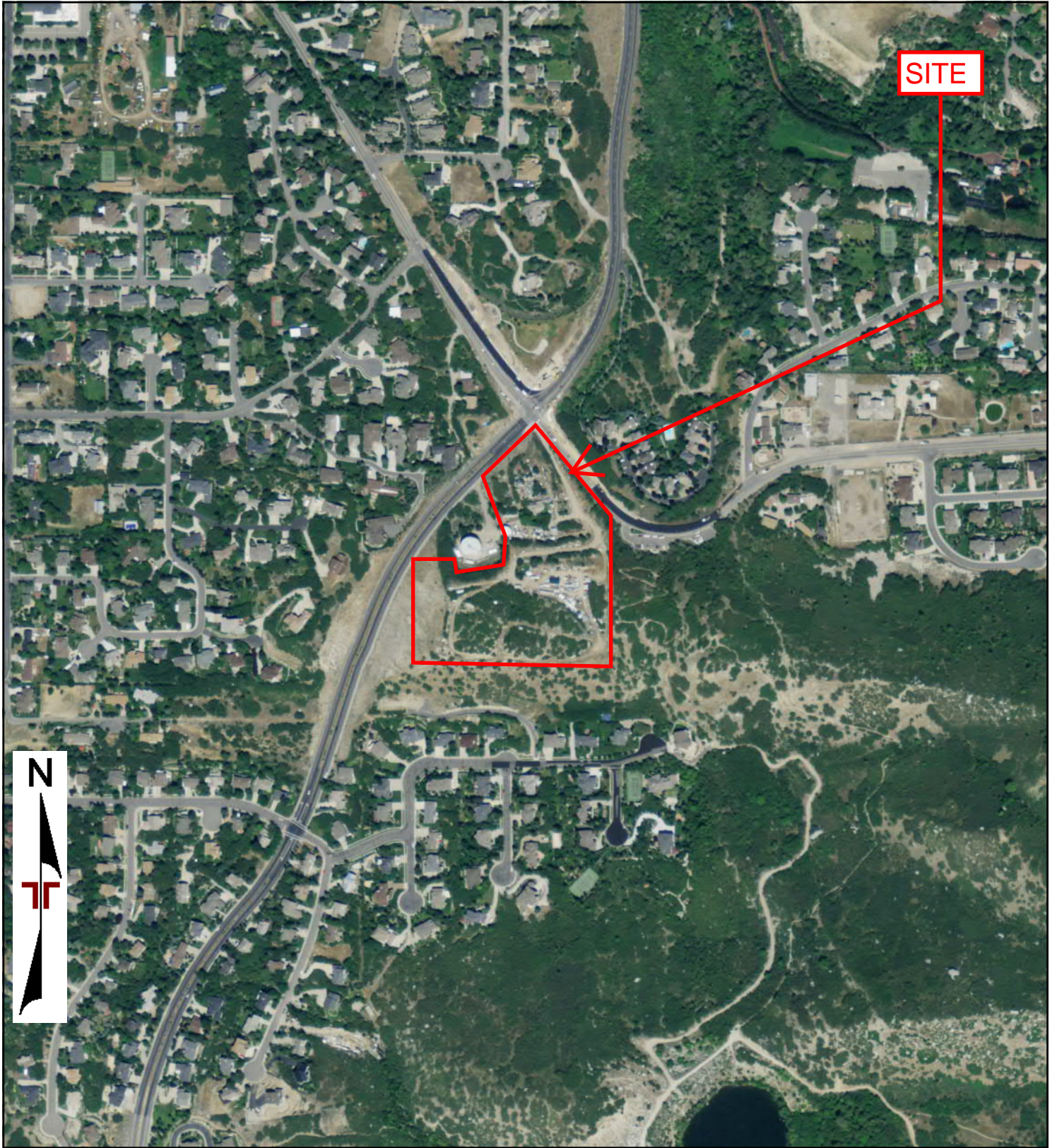
When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.



0 Feet

500

1000

2000

Project Manager:	Project No: 61177354
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 2011

Terracon
 6949 South High Tech Drive
 Midvale, UT 84047

2011 AERIAL PHOTOGRAPH
 Sandy Properties
 3384 & 3400 Little Cottonwood Road
 Sandy, UT 84092

Appendix
C



0 Feet

500

1000

2000

Project Manager:	Project No: 61177354
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 2009

Terracon
 6949 South High Tech Drive
 Midvale, UT 84047

2009 AERIAL PHOTOGRAPH
 Sandy Properties
 3384 & 3400 Little Cottonwood Road
 Sandy, UT 84092

Appendix
C



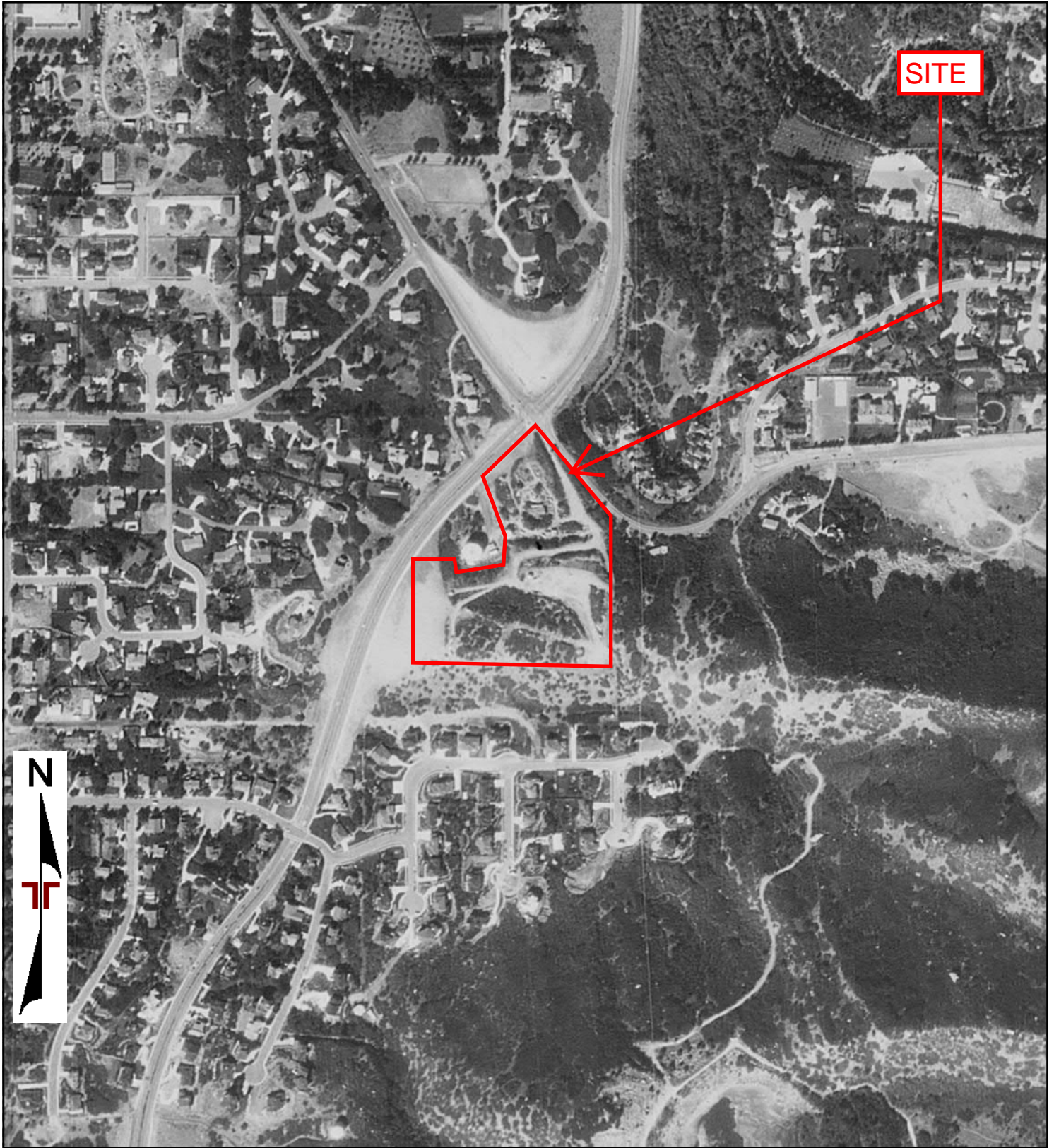
0 Feet 500 1000 2000

Project Manager:	Project No: 61177354
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 2006

6949 South High Tech Drive
 Midvale, UT 84047

2006 AERIAL PHOTOGRAPH
 Sandy Properties
 3384 & 3400 Little Cottonwood Road
 Sandy, UT 84092

Appendix
C



0 Feet

500

1000

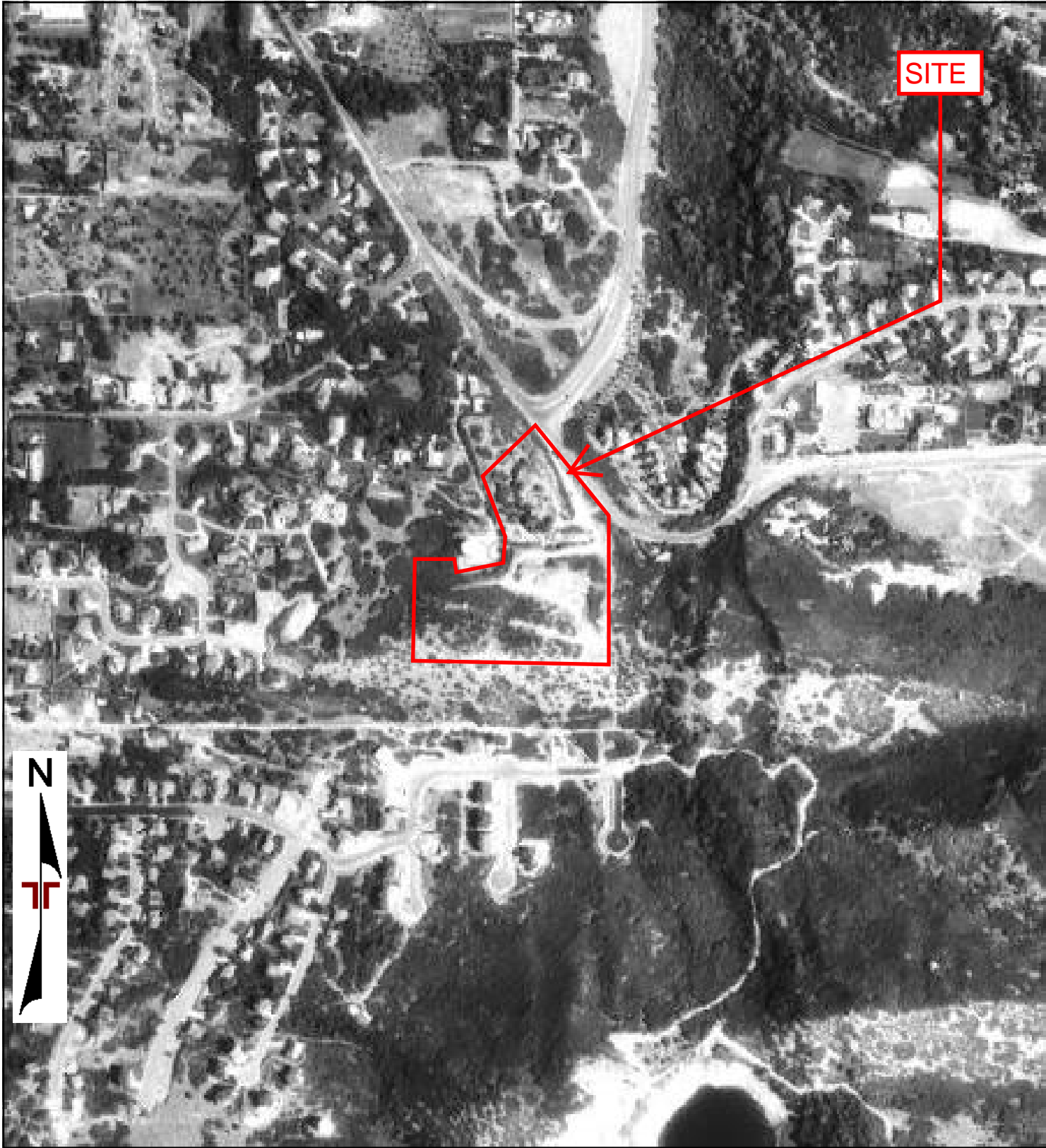
2000

Project Manager:	Project No: 61177354
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 1997

Terracon
 6949 South High Tech Drive
 Midvale, UT 84047

1997 AERIAL PHOTOGRAPH
 Sandy Properties
 3384 & 3400 Little Cottonwood Road
 Sandy, UT 84092

Appendix
C



0 Feet

500

1000

2000

Project Manager:	Project No. 61177354
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 1993

Terracon
6949 South High Tech Drive
Midvale, UT 84047

1993 AERIAL PHOTOGRAPH
Sandy Properties
3384 & 3400 Little Cottonwood Road
Sandy, UT 84092

Appendix
C



0 Feet 500 1000 2000

Project Manager:	Project No: 61177354
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 1983

Terracon
6949 South High Tech Drive
Midvale, UT 84047

1983 AERIAL PHOTOGRAPH
Sandy Properties
3384 & 3400 Little Cottonwood Road
Sandy, UT 84092

Appendix
C



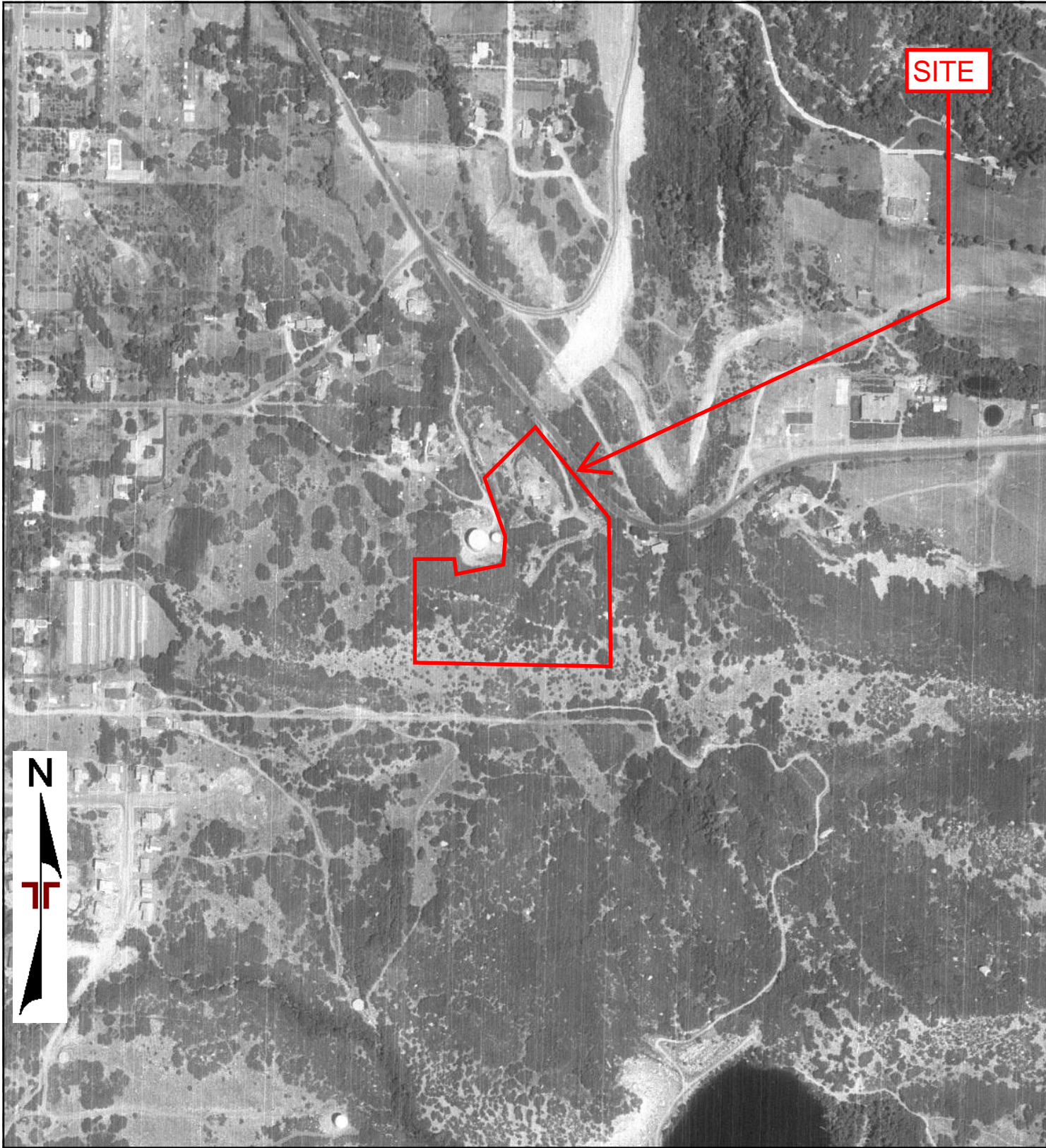
0 Feet 500 1000 2000

Project Manager:	Project No: 61177354
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 1981

6949 South High Tech Drive
 Midvale, UT 84047

1981 AERIAL PHOTOGRAPH
 Sandy Properties
 3384 & 3400 Little Cottonwood Road
 Sandy, UT 84092

Appendix
C



0 Feet

500

1000

2000

Project Manager:	Project No: 61177354
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 1977

Terracon
6949 South High Tech Drive
Midvale, UT 84047

1977 AERIAL PHOTOGRAPH
Sandy Properties
3384 & 3400 Little Cottonwood Road
Sandy, UT 84092

Appendix
C



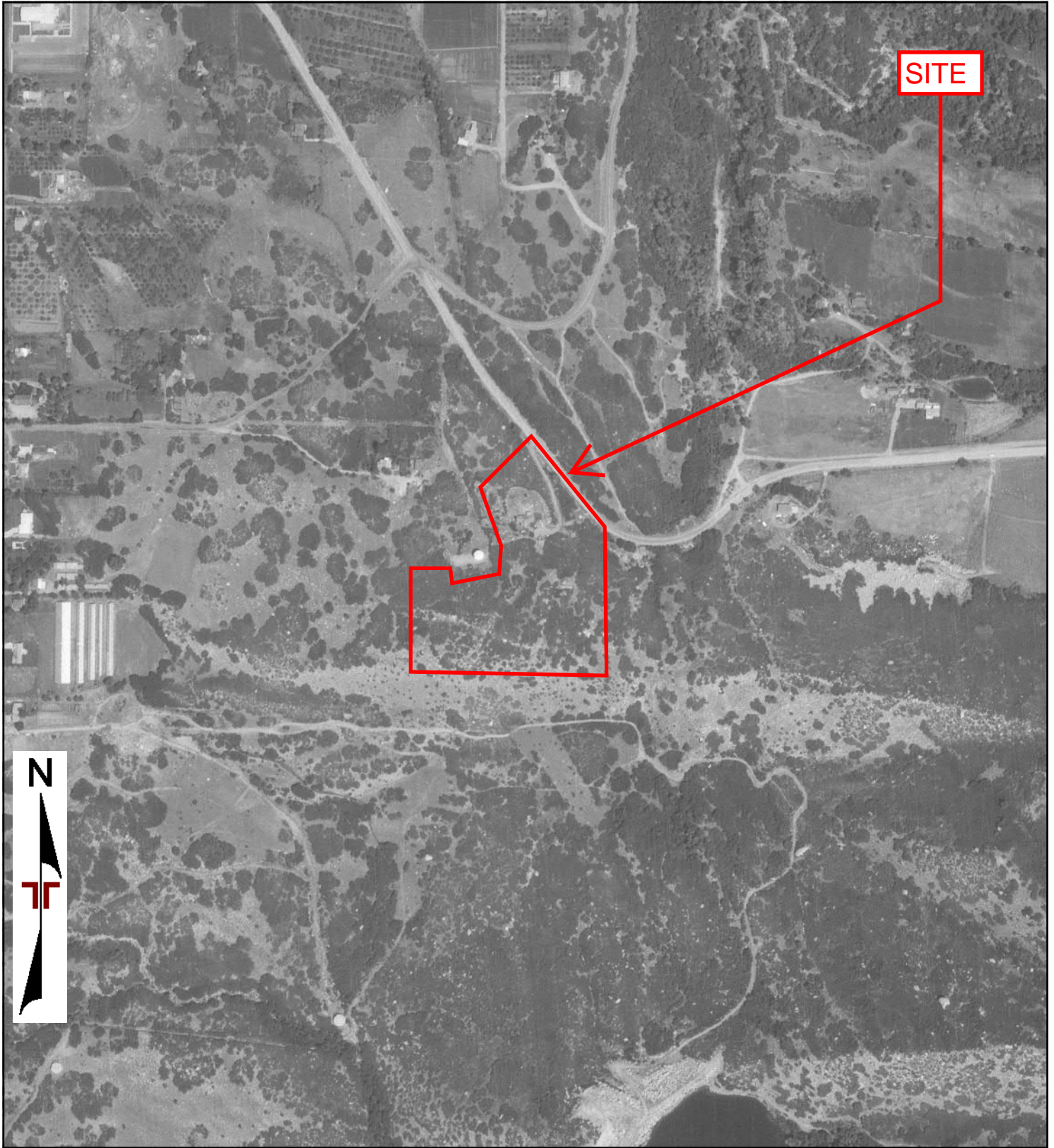
0 Feet 500 1000 2000

Project Manager:	Project No: 61177354
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 1971

Terracon
6949 South High Tech Drive
Midvale, UT 84047

1971 AERIAL PHOTOGRAPH
Sandy Properties
3384 & 3400 Little Cottonwood Road
Sandy, UT 84092

Appendix
C



0 Feet

500

1000

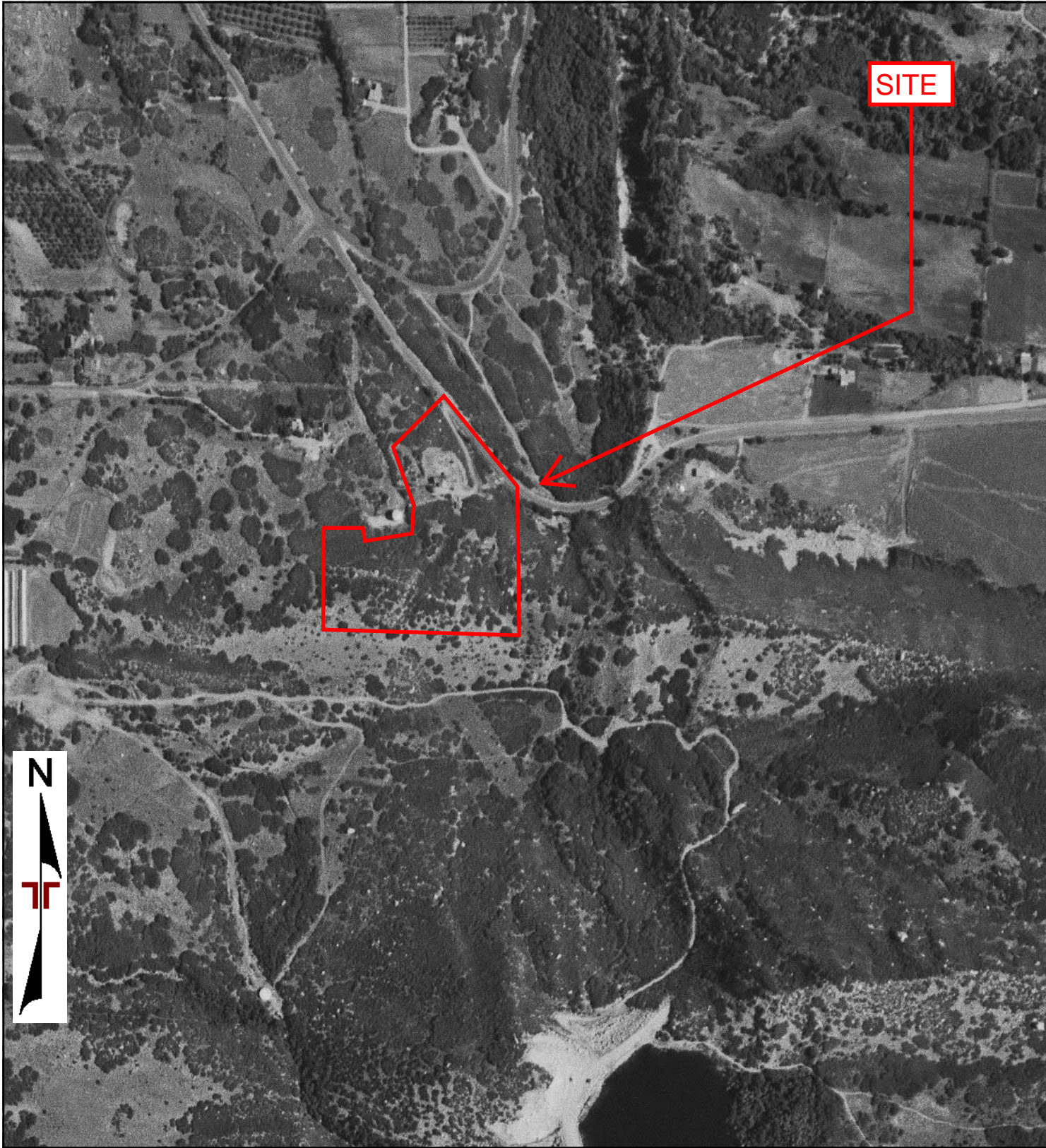
2000

Project Manager:	Project No: 61177354
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 1965

Terracon
6949 South High Tech Drive
Midvale, UT 84047

1965 AERIAL PHOTOGRAPH
Sandy Properties
3384 & 3400 Little Cottonwood Road
Sandy, UT 84092

Appendix
C



0 Feet

500

1000

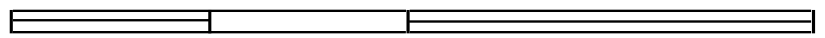
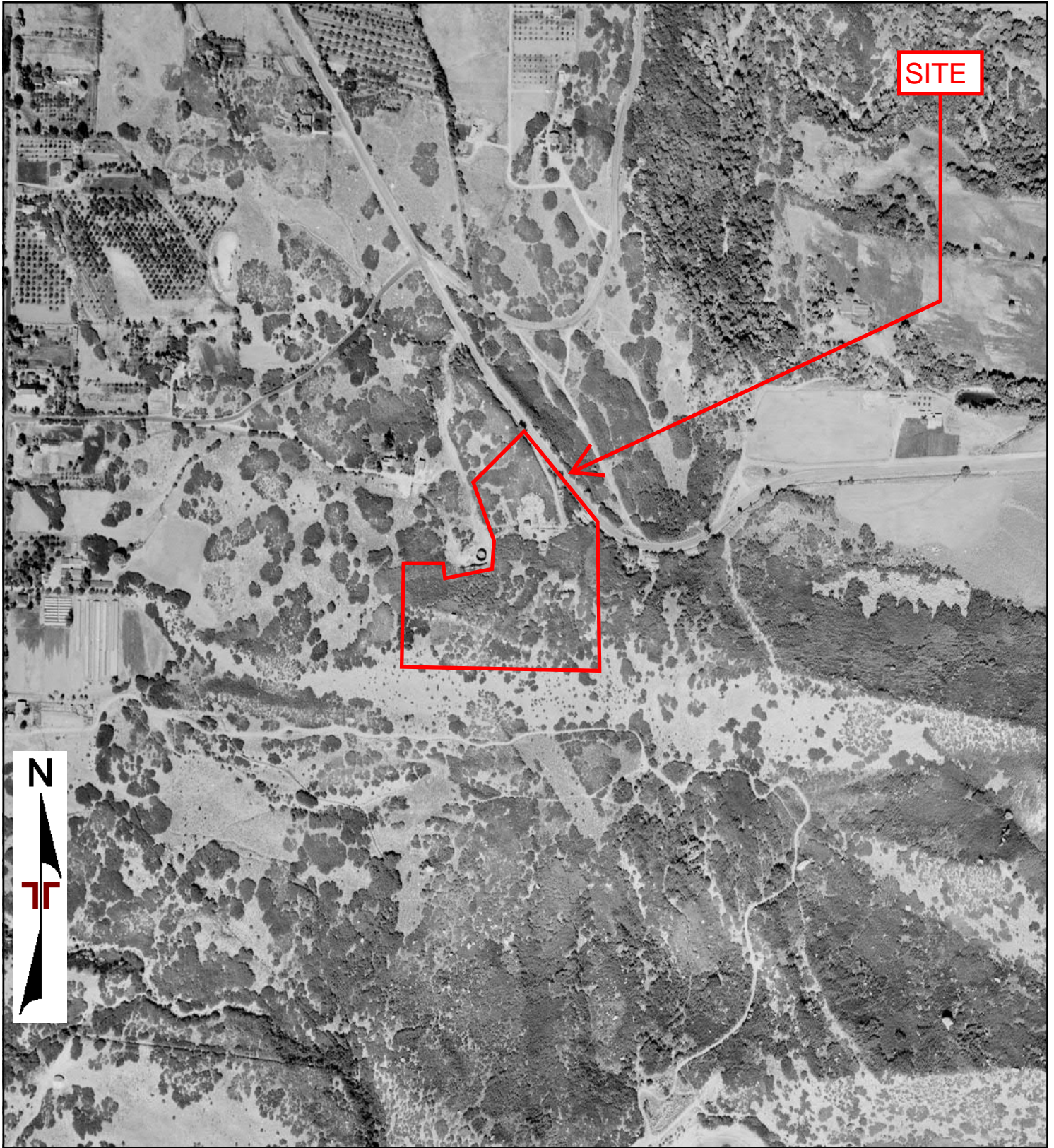
2000

Project Manager:	Project No: 61177354
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 1962

Terracon
6949 South High Tech Drive
Midvale, UT 84047

1962 AERIAL PHOTOGRAPH
Sandy Properties
3384 & 3400 Little Cottonwood Road
Sandy, UT 84092

Appendix
C



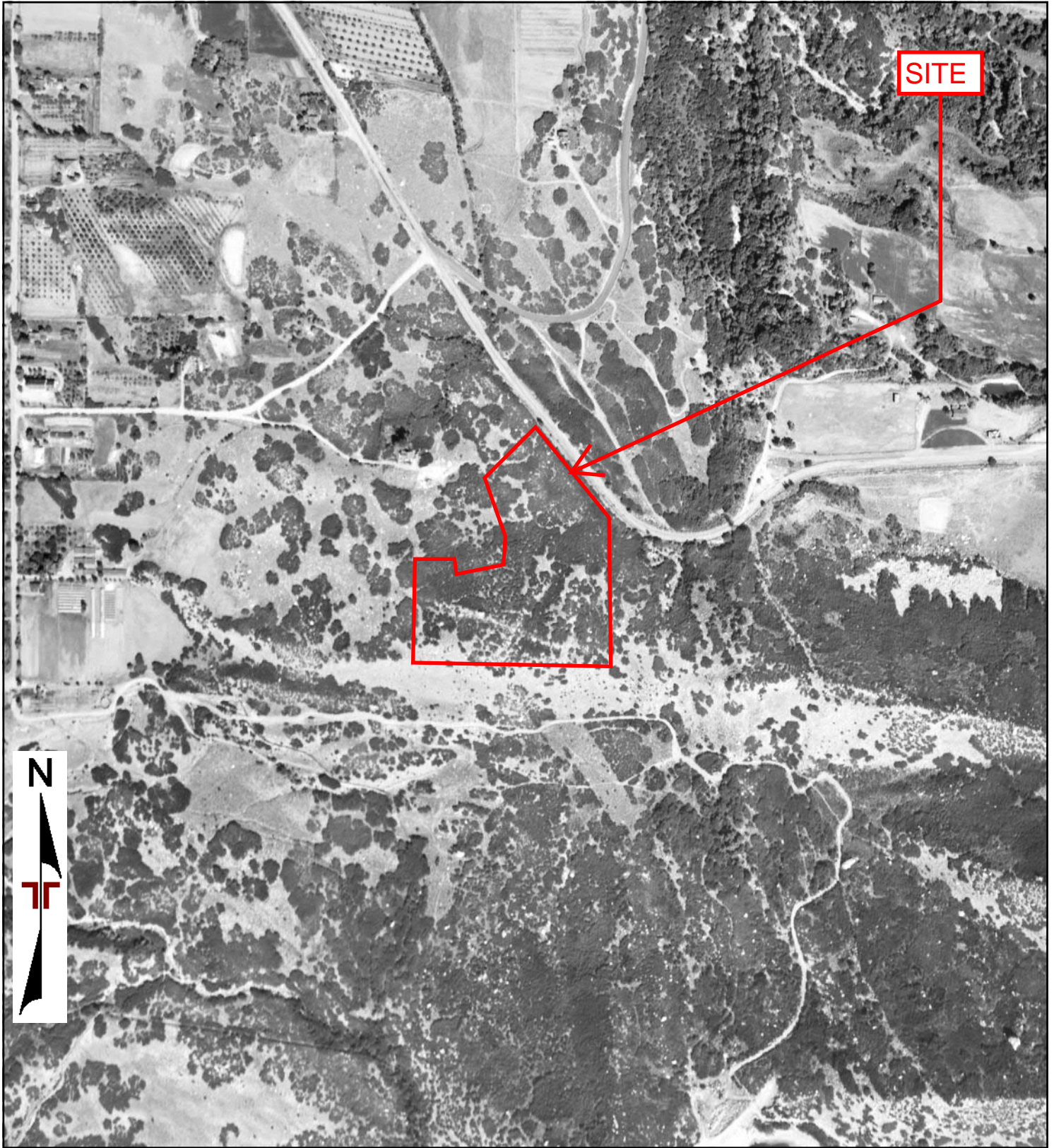
0 Feet 500 1000 2000

Project Manager:	Project No: 61177354
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 1958

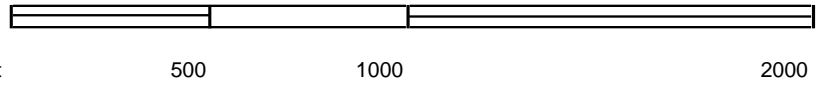
6949 South High Tech Drive
 Midvale, UT 84047

1958 AERIAL PHOTOGRAPH
 Sandy Properties
 3384 & 3400 Little Cottonwood Road
 Sandy, UT 84092

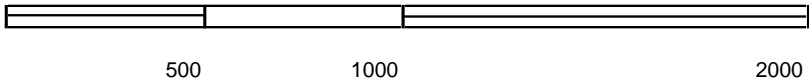
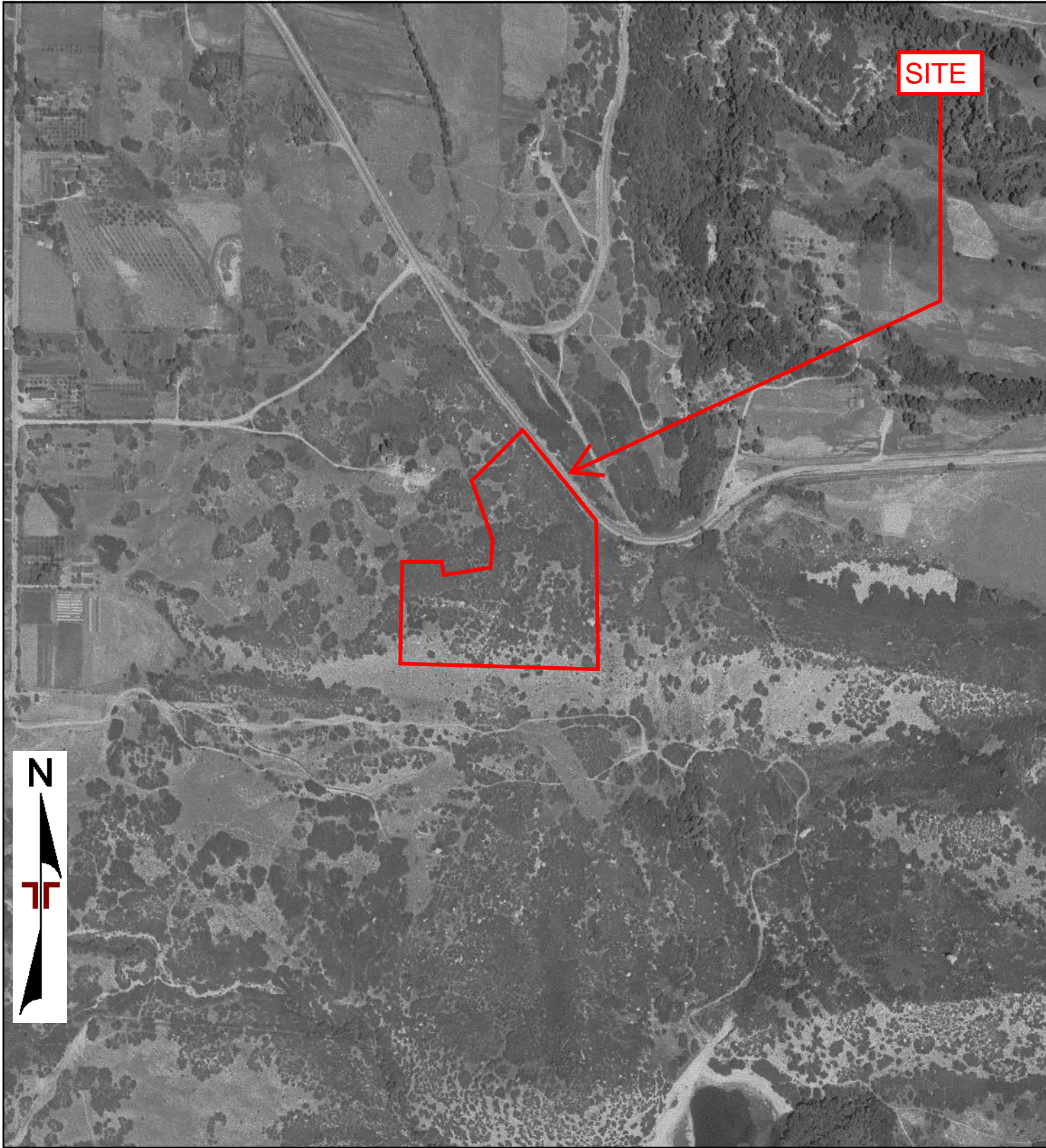
Appendix
C



SITE



Project Manager:	Project No. 61177354	 6949 South High Tech Drive Midvale, UT 84047	1952 AERIAL PHOTOGRAPH	Appendix
Drawn by:	Scale: As Shown		Sandy Properties 3384 & 3400 Little Cottonwood Road Sandy, UT 84092	C
Checked by:	File Name:			
Approved by:	Date: 1952			

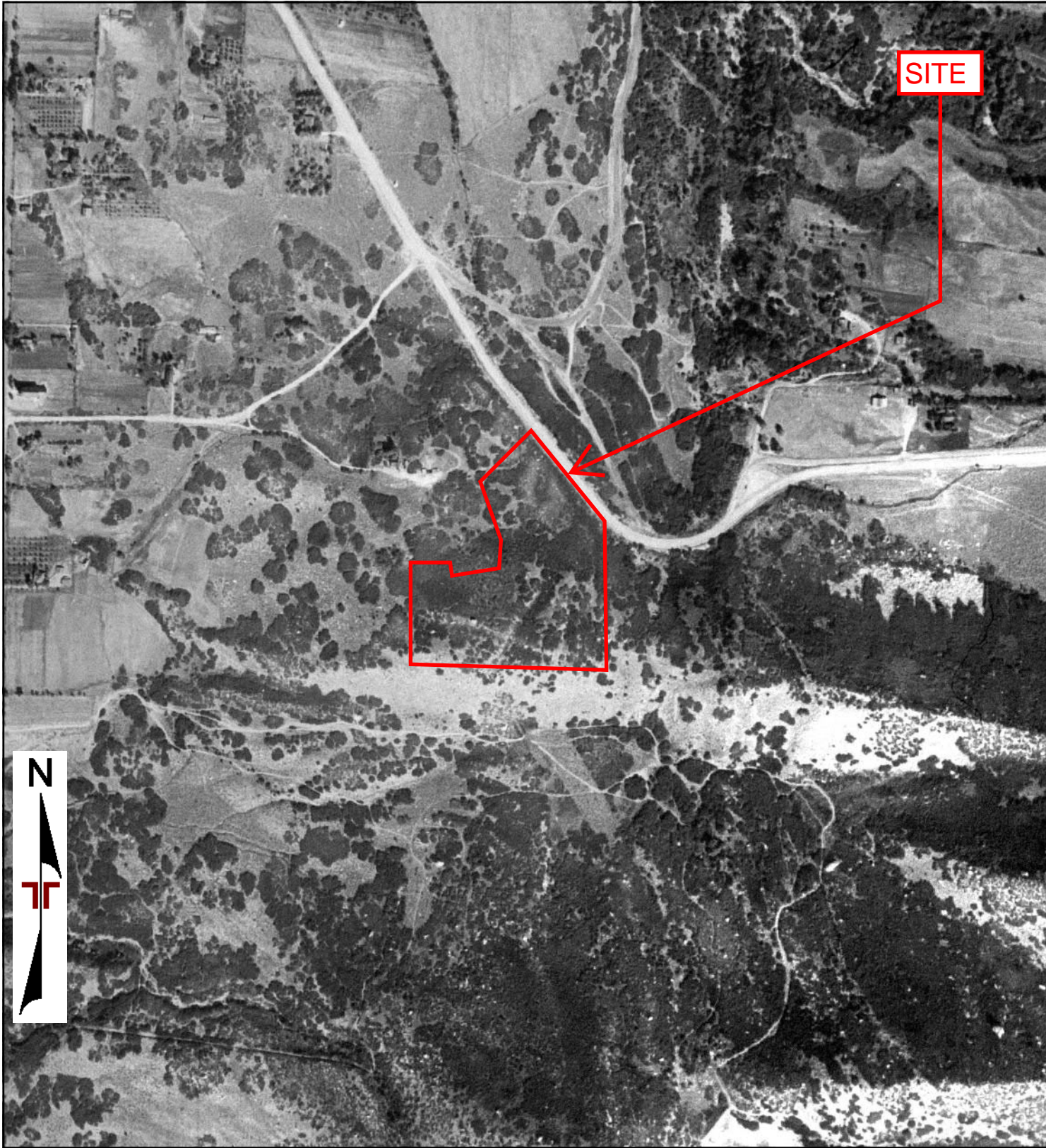


Project Manager:	Project No: 61177354
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 1947

Terracon
 6949 South High Tech Drive
 Midvale, UT 84047

1947 AERIAL PHOTOGRAPH
 Sandy Properties
 3384 & 3400 Little Cottonwood Road
 Sandy, UT 84092

Appendix
C



0 Feet

500

1000

2000

Project Manager:	Project No. 61177354
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 1937

Terracon
6949 South High Tech Drive
Midvale, UT 84047

1937 AERIAL PHOTOGRAPH
Sandy Properties
3384 & 3400 Little Cottonwood Road
Sandy, UT 84092

Appendix
C

APPENDIX D
ENVIRONMENTAL DATABASE INFORMATION

Sandy Properties

3384 & 3400 Little Cottonwood Road
Sandy, UT 84092

Inquiry Number: 4972202.2s

June 21, 2017

The EDR Radius Map™ Report with GeoCheck®



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

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	29
Government Records Searched/Data Currency Tracking	GR-1
 <u>GEOCHECK ADDENDUM</u>	
Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-13
Physical Setting Source Map Findings	A-15
Physical Setting Source Records Searched	PSGR-1

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

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

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

TARGET PROPERTY INFORMATION

ADDRESS

3384 & 3400 LITTLE COTTONWOOD ROAD
SANDY, UT 84092

COORDINATES

Latitude (North): 40.5710210 - 40° 34' 15.67"
Longitude (West): 111.7993790 - 111° 47' 57.76"
Universal Transverse Mercator: Zone 12
UTM X (Meters): 432334.9
UTM Y (Meters): 4491234.0
Elevation: 5319 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 6008999 DRAPER, UT
Version Date: 2014

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140701
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
 3384 & 3400 LITTLE COTTONWOOD ROAD
 SANDY, UT 84092

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	FIX IT MAN REPR SHOP	3400 LITTLE COTTONW	EDR Hist Auto		TP
Reg	DAVENPORT AND FLAGST	1 MILE W OF INTERSEC	NPL, SEMS, US ENG CONTROLS, US INST CONTROL, ROD,..	Same	114, 0.022, NE
2	FIX IT MAN REPR SHOP	3340 LITTLE COTTONW	EDR Hist Auto	Lower	1 ft.

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

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

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
FIX IT MAN REPR SHOP 3400 LITTLE COTTONW SANDY, UT 84092	EDR Hist Auto	N/A

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

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

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

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

EXECUTIVE SUMMARY

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS..... This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... List of Landfills

State and tribal leaking storage tank lists

LAST..... Leaking Aboveground Storage Tank Sites

LUST..... Sites with Leaking Underground Storage Tanks

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing

UST..... List of Sites with Underground Storage Tanks

AST..... Listing of Aboveground Storage Tanks

INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

INST CONTROL..... Sites with Institutional Controls

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

VCP..... Voluntary Cleanup Sites List

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Assessment Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

EXECUTIVE SUMMARY

ODI..... Open Dump Inventory
IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register
CDL..... Methamphetamine Contaminated Properties Listing
US CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS..... Spills Data
SPILLS 90..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated
FUDS..... Formerly Used Defense Sites
DOD..... Department of Defense Sites
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR..... Financial Assurance Information
EPA WATCH LIST..... EPA WATCH LIST
2020 COR ACTION..... 2020 Corrective Action Program List
TSCA..... Toxic Substances Control Act
TRIS..... Toxic Chemical Release Inventory System
SSTS..... Section 7 Tracking Systems
RMP..... Risk Management Plans
RAATS..... RCRA Administrative Action Tracking System
PRP..... Potentially Responsible Parties
PADS..... PCB Activity Database System
ICIS..... Integrated Compliance Information System
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS..... Material Licensing Tracking System
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
RADINFO..... Radiation Information Database
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS..... Incident and Accident Data
CONSENT..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV..... Indian Reservations
FUSRAP..... Formerly Utilized Sites Remedial Action Program
UMTRA..... Uranium Mill Tailings Sites
LEAD SMELTERS..... Lead Smelter Sites
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
US MINES..... Mines Master Index File
ABANDONED MINES..... Abandoned Mines
FINDS..... Facility Index System/Facility Registry System
ECHO..... Enforcement & Compliance History Information

EXECUTIVE SUMMARY

DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
UXO.....	Unexploded Ordnance Sites
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
DRYCLEANERS.....	Registered Drycleaners
EWA.....	Enforceable Written Assurances
Financial Assurance.....	Financial Assurance Information Listing
FUDS.....	Formerly Used Defense Sites
MMRP.....	Military Munitions Response Program
NPDES.....	Permitted Facilities Listing
TIER 2.....	Tier 2 Facility Listing
UIC.....	UIC Site Location Listing
UOPF.....	Used Oil Permitted Facilities

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner.....	EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 04/05/2017 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
DAVENPORT AND FLAGST	1 MILE W OF INTERSEC	NE 0 - 1/8 (0.022 mi.)	0	8

Federal CERCLIS list

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

A review of the SEMS list, as provided by EDR, and dated 02/07/2017 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
DAVENPORT AND FLAGST	1 MILE W OF INTERSEC	NE 0 - 1/8 (0.022 mi.)	0	8

Federal institutional controls / engineering controls registries

US ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the US ENG CONTROLS list, as provided by EDR, and dated 02/13/2017 has revealed that there is 1 US ENG CONTROLS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
DAVENPORT AND FLAGST	1 MILE W OF INTERSEC	NE 0 - 1/8 (0.022 mi.)	0	8

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

A review of the US INST CONTROL list, as provided by EDR, and dated 02/13/2017 has revealed that there is 1 US INST CONTROL site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
DAVENPORT AND FLAGST	1 MILE W OF INTERSEC	NE 0 - 1/8 (0.022 mi.)	0	8

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

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

A review of the ROD list, as provided by EDR, and dated 11/25/2013 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
DAVENPORT AND FLAGST	1 MILE W OF INTERSEC	NE 0 - 1/8 (0.022 mi.)	0	8

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within approximately 0.125 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FIX IT MAN REPR SHOP	3340 LITTLE COTTONW	0 - 1/8 (0.000 mi.)	2	28

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

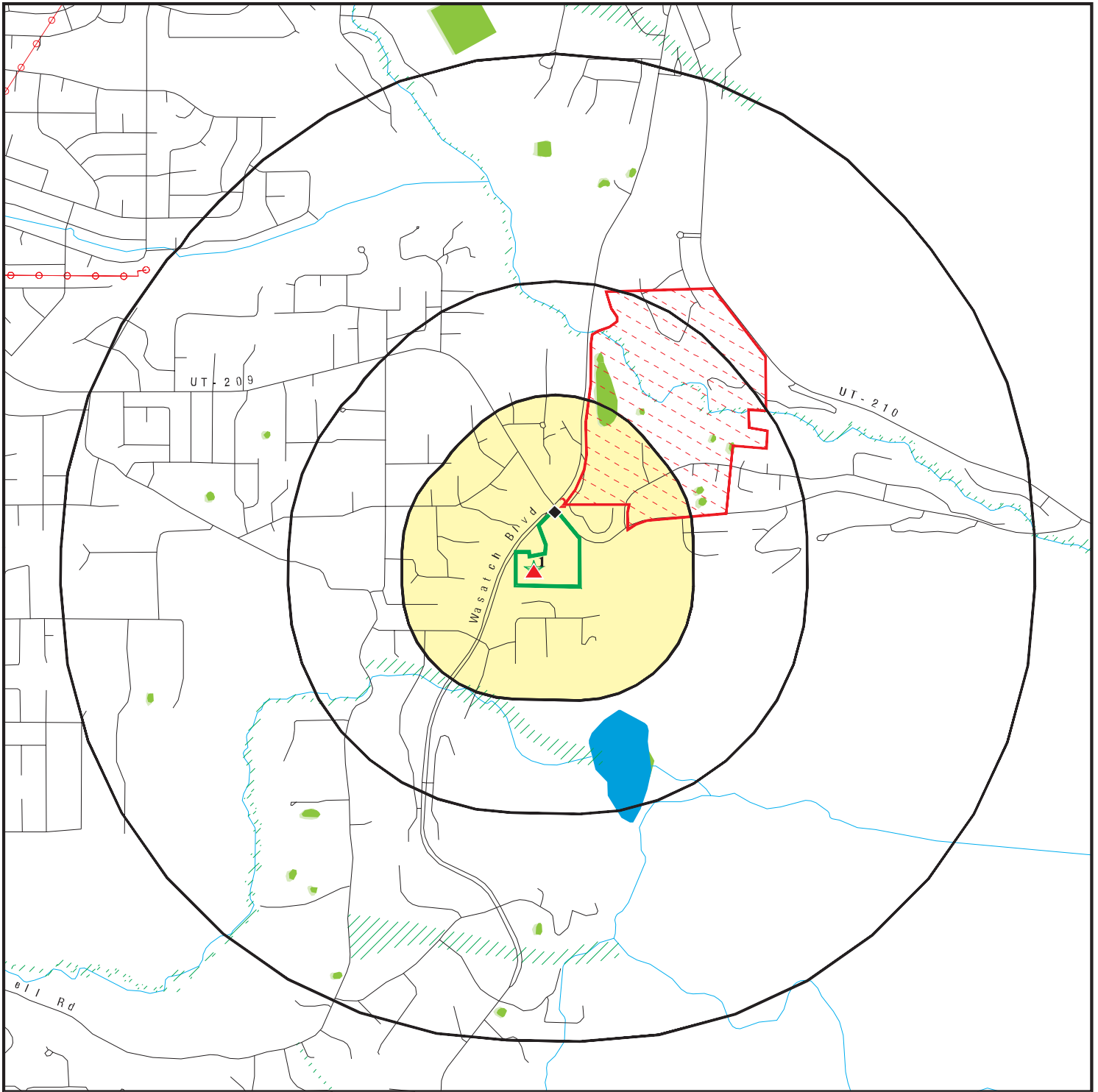
Site Name

NORTH STAR SMELTER

Database(s)

SEMS-ARCHIVE, LEAD SMELTERS

OVERVIEW MAP - 4972202.2S



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

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

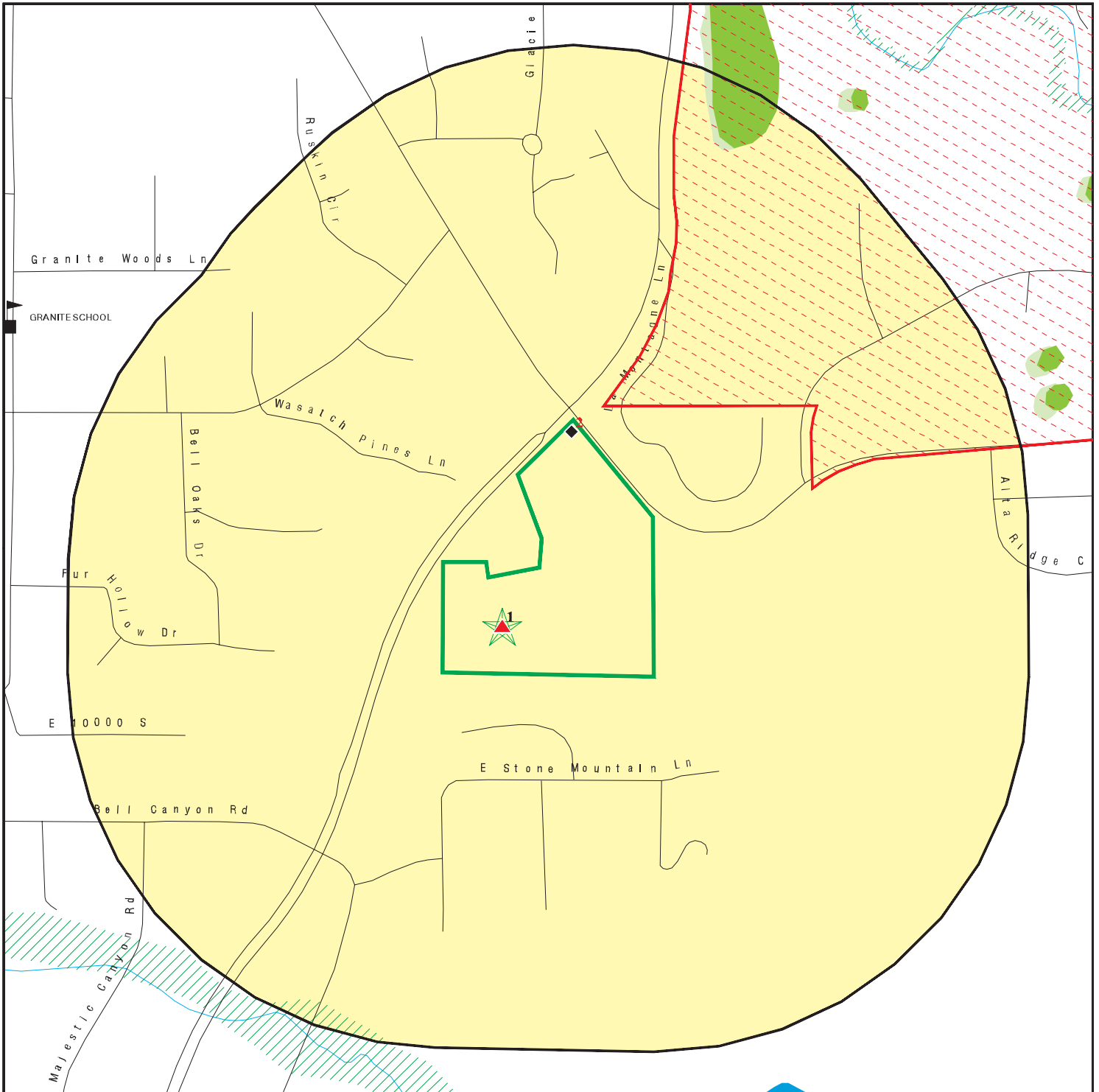









This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sandy Properties
 ADDRESS: 3384 & 3400 Little Cottonwood Road
 Sandy UT 84092
 LAT/LONG: 40.571021 / 111.799379

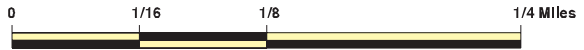
CLIENT: Terracon, Inc.
 CONTACT: Tina Cheney
 INQUIRY #: 4972202.2s
 DATE: June 21, 2017 9:40 am

DETAIL MAP - 4972202.2S



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

-  Indian Reservations BIA
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory
-  State Wetlands



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

<p>SITE NAME: Sandy Properties ADDRESS: 3384 & 3400 Little Cottonwood Road Sandy UT 84092 LAT/LONG: 40.571021 / 111.799379</p>	<p>CLIENT: Terracon, Inc. CONTACT: Tina Cheney INQUIRY #: 4972202.2s DATE: June 21, 2017 9:41 am</p>
--	---

MAP FINDINGS SUMMARY

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

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0

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
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		1	0	0	0	NR	1
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.500		0	0	0	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EWA	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
FUDS	TP		NR	NR	NR	NR	NR	0
MMRP	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
TIER 2	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
UOPF	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125	1	1	NR	NR	NR	NR	2
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	TP		NR	NR	NR	NR	NR	0
--------	----	--	----	----	----	----	----	---

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		1	6	0	0	0	0	7

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

1
Target
Property

FIX IT MAN REPR SHOP
3400 LITTLE COTTONWOOD RD
SANDY, UT 84092

EDR Hist Auto

1014171510
N/A

EDR Hist Auto

Actual:
5319 ft.

Year: Name:
1991 FIX IT MAN REPR SHOP

Type:
REPAIR SHOPS

NPL
Region
NE
< 1/8
114 ft.

DAVENPORT AND FLAGSTAFF SMELTERS
1 MILE W OF INTERSECTION USH 209 AND 210
SANDY, UT 84092

NPL
SEMS
US ENG CONTROLS
US INST CONTROL
ROD
PRP
LEAD SMELTERS

1000707553
UTD988075719

NPL:

EPA ID: UTD988075719
Cerclis ID: 801257
EPA Region: 8
Federal: N
Final Date: 2003-04-29 00:00:00
Site Score: 32.5
Latitude: 40.573610000000002
Longitude: -111.79194

Site Details:

Site Name: DAVENPORT AND FLAGSTAFF SMELTERS
Site Status: Final
Site Zip: 84092
Site City: SANDY
Site State: UT
Federal Site: No
Site County: SALT LAKE
EPA Region: 08
Date Proposed: 12/01/00
Date Deleted: Not reported
Date Finalized: 04/30/03

Substance Details:

NPL Status: Currently on the Final NPL
Substance ID: Not reported
Substance: Not reported
CAS #: Not reported
Pathway: Not reported
Scoring: Not reported

NPL Status: Currently on the Final NPL
Substance ID: A005
Substance: ARSENIC AND COMPOUNDS
CAS #: Not reported
Pathway: SOIL EXPOSURE PATHWAY
Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: D008
Substance: LEAD (PB)
CAS #: 7439-92-1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVENPORT AND FLAGSTAFF SMELTERS (Continued)

1000707553

Pathway: SOIL EXPOSURE PATHWAY
Scoring: 4

Summary Details:

Conditions at Proposal December 1, 2000): The Davenport and Flagstaff Smelter site is located east of the Town of Sandy City, Salt Lake County, Utah at the mouth of Little Cottonwood Canyon. A number of smelters operated in Little Cottonwood Canyon during the 1870s. Three of these smelters were located at the mouth of the canyon, the Davenport Smelter south of Little Cottonwood Creek, the Flagstaff Smelter on the north bank of Little Cottonwood Creek, and the McKay Smelter located immediately adjacent to the former Davenport Smelter site. The small town of Granite was built near the smelters and during its heyday 1872-1874) consisted of about 50 buildings serving the workmen at the smelters and the teamsters who hauled the ore from the mines. When the smelters closed, the town was abandoned. The Davenport Smelter was a lead and silver smelter located on the south side of Little Cottonwood Creek just west of the mouth of Little Cottonwood Canyon. The smelter was located on the property purchased by the Davenport Mining Company from S. J. Despain on March 7, 1873. Ores smelted at the site were mined primarily from the Davenport and Matilda Mines located in Little Cottonwood Canyon and were hauled by wagon from the mines to the Davenport Smelter. The ores contained more than sixty to seventy ounces of silver per ton and were by volume between 12 and 18 percent lead. The smelter operated from 1872 until 1875. Early smelting activities in the Salt Lake Valley were reported to be conducted in a ...sadly careless and ignorant manner and ...that in many cases half the lead is lost to the slag or up the chimney. L. E. Despain, the son of S. J. Despain, wrote in a letter dated January 12, 1948, that ...the smoke stacks were not built very high, and the flue dust fell on the vegetation sic) poisoned sic) all the horses, cattle, sheep and honey bees. There are no records available that indicate that any material was removed from the Davenport Smelter site after 1875. It is reported that remains of the Davenport Smelter foundation have been identified at one of the residences included within the area of contamination. Large amounts of cobble-si ed slag have been reported in the back yards of the residents. Current land use at the site includes a residential neighborhood and school. The Davenport Smelter site was listed in the CERCLA Information System CERCLIS) in April 1992 after site discovery during a study of historic smelters in the Salt Lake Valley conducted by the state of Utah. Soil samples were collected from the area of the Davenport and McKay smelters and analy ed for lead and arsenic in June of 1992 and a site assessment was conducted in July 1992. A Preliminary Assessment was conducted in August 1992. Sampling for a Site Inspection was conducted in June of 1994 and the Analytical Results Report was approved in April 1996. An Engineering Evaluation/Cost Analysis EE/CA) was conducted by the Utah Department of Environmental Quality UDEQ), Division of Environmental Response and Remediation DERR) for the Flagstaff and Davenport sites. Sampling for this EE/CA in part involved the collection of 946 soil samples from the area collected from October through December of 1998. Analytical data from samples collected for the EE/CA were used to prepare a map showing the area of contaminated soil. The area of contaminated soils occurs in a residential area west of the mouth of Little Cottonwood Canyon, south of Little Cottonwood Creek and north of Little Cottonwood Road in an area that was known as the Beaver Pond Springs. The contaminated properties are located on Little Cottonwood Lane, Quail Ridge Road, Old Ranch Place, and Little Cottonwood Place. Soil samples from residential properties were collected by the UDEQ during October, November, and December of 1998 and reveal that 15 properties have documented levels of arsenic in the residential soil that are greater than three timesthe regional background. Twenty-two

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVENPORT AND FLAGSTAFF SMELTERS (Continued)

1000707553

properties have documented levels of lead in the residential soil that are greater than three times the regional background. Status April 2003): EPA is considering various alternatives for this site. The description of the site release) is based on information available at the time the site was evaluated with the HRS. The description may change as additional information is gathered on the sources and extent of contamination. See 56 FR 5600, February 11, 1991, or subsequent FR notices. For more information about the hazardous substances identified in this narrative summary, including general information regarding the effects of exposure to these substances on human health, please see the Agency for Toxic Substances and Disease Registry (ATSDR) ToxFAQs. ATSDR ToxFAQs can be found on the Internet at <http://www.atsdr.cdc.gov/toxfaq.html> or by telephone at 1-888-42-ATSDR or 1-888-422-8737.

Site Status Details:

NPL Status: Final
Proposed Date: 12/01/2000
Final Date: 04/30/2003
Deleted Date: Not reported

Narratives Details:

NPL Name: DAVENPORT AND FLAGSTAFF SMELTERS
City: SANDY
State: UT

SEMS:

Site ID: 801257
EPA ID: UTD988075719
Federal Facility: N
NPL: Currently on the Final NPL
Non NPL Status: Not reported

Following information was gathered from the prior CERCLIS update completed in 10/2013:

Site ID: 0801257
EPA ID: UTD988075719
Facility County: SALT LAKE
Short Name: DAVENPORT AND FLAGSTAFF S
Congressional District: 02
IFMS ID: 082M
SMSA Number: 7160
USGC Hydro Unit: 16020204
Federal Facility: Not a Federal Facility
DMNSN Number: 0.00000
Site Orphan Flag: N
RCRA ID: Not reported
USGS Quadrangle: Not reported
Site Init By Prog: Not reported
NFRAP Flag: Not reported
Parent ID: Not reported
RST Code: Not reported
EPA Region: 08
Classification: Mines/Tailings
Site Settings Code: SU
NPL Status: Currently on the Final NPL
DMNSN Unit Code: Not reported
RBRAC Code: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVENPORT AND FLAGSTAFF SMELTERS (Continued)

1000707553

RResp Fed Agency Code: Not reported
Non NPL Status: Not reported
Non NPL Status Date: / /
Site Fips Code: 49035
CC Concurrence Date: 08/30/12
CC Concurrence FY: 2012
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):

Contact ID: 8270138.00000
Contact Name: Lisa Lloyd
Contact Tel: (303) 312-6537
Contact Title: Remedial Project Manager (RPM)
Contact Email: Not reported

Contact ID: 8000083.00000
Contact Name: Duc Nguyen
Contact Tel: (303) 312-6509
Contact Title: On-Scene Coordinator (OSC)
Contact Email: nguyen.duc@epa.gov

Contact ID: 13004186.00000
Contact Name: PAT COURTNEY
Contact Tel: (303) 312-6631
Contact Title: Community Involvement Coordinator
Contact Email: courtney.patricia@epa.gov

CERCLIS Site Alias Name(s):

Alias ID: 101
Alias Name: MCKAY & REVOLUTION SILVER MINING CO
Alias Address: 9565 SOUTH WASATCH BLVD
SALT LAKE CITY, UT 84092

Alias ID: 201
Alias Name: HAWKEYE SMELTER
Alias Address: 9565 SOUTH WASATCH BLVD.
SALT LAKE CITY, UT 84092

Alias ID: 202
Alias Name: DAVENPORT SMELTER
Alias Address: 9565 SOUTH WASATCH BLVD
SANDY, UT 84092

Alias ID: 203
Alias Name: DAVENPORT AND FLAGSTAFF SMELTERS
Alias Address: 1 MILE W OF INTERSECTION USH 209 AND 210
SANDY CITY, UT 84092

Alias Comments: Not reported

Site Description: The Davenport and Flagstaff Smelters site (UTD988075719) is located approximately 15 miles southeast of Salt Lake City, Utah, in a residential area at the mouth of Little Cottonwood Canyon. The Davenport Smelter was located on the southern side of the canyon, near Little Cottonwood Canyon Road. The Flagstaff Smelter was located north of Little Cottonwood Creek. The area surrounding the site consists of affluent single family homes, one of Salt Lake County's premier restaurants, and nonresidential property. Due to its proximity to the canyon and the extensive natural vegetation, the area is prime for growth and residential development. The risks posed by the site derive from smelting activity, which occurred in the 1870's. Lead and arsenic have been

MAP FINDINGS

DAVENPORT AND FLAGSTAFF SMELTERS (Continued)

1000707553

identified as the contaminants of concern (COCs) at the site. Lead and arsenic concentration is likely the result of settling flue ash from the smelters, windblown dust from the crushing of ore, and slag. Surface water runoff from rain and snowmelt, erosion, and wind carried contaminants beyond the original locations of the smelter. There are currently two operable units (OUs) at the site. The Residential Operable Unit (ROU) addresses soil contamination on residential properties in the areas near the locations of the former smelters. The Non-residential Operable Unit (NROU) addresses soil contamination in the undeveloped and non-residential properties surrounding the smelter sites. This decision document is directed at reducing risk from soil contamination in the residential areas associated with the Davenport and Flagstaff smelters. This is a final record of decision (ROD) and there were no interim RODs. The Utah Department of Environmental Quality (UDEQ) is the lead agency for the Site under a cooperative agreement with the United States Environmental Protection Agency (EPA). The Superfund trust fund will be used to cover costs associated with the selected remedial action. The former Davenport and Flagstaff smelters were both constructed around 1870 at the mouth of Little Cottonwood Canyon. Both of these smelters processed lead and silver ores removed from mines located near Alta, Utah. The ore was first crushed to a reasonable size and then was placed along with fuel, either wood or coal, into the smelter. The crushing process likely generated dust contaminated with lead and arsenic. In addition, the flue ash from the smelter likely contained concentrated levels of these metals which would have settled in the vicinity of the smelters. Both smelters were decommissioned and dismantled by 1879. The discovery of ladle casts in Little Cottonwood Creek, near the Flagstaff Smelter location in 1991, prompted a study of historical smelter sites in the Salt Lake Valley. During investigations performed in 1992 by the EPA and in 1994 by UDEQ, elevated concentrations of arsenic and lead were detected in soil at both smelter locations. Little physical evidence of the smelters remains; however, slag piles and soil contaminated with lead and arsenic remain in the area. A Phase I Site assessment was conducted by the EPA Region VIII, Emergency Response Branch, Technical Assistance Team (TAT) in April of 1992. During this site assessment, elevated levels of arsenic and lead were detected in surface and subsurface soil near the Flagstaff Smelter site. Based on these results, the TAT performed a Phase II Site Assessment. During the Phase II investigation, the Davenport Smelter site was discovered south of the Flagstaff Smelter site. The area around the Davenport Smelter was investigated as Phase III of the Little Cottonwood Creek Smelter sites in July of 1992. The limited sampling performed during both the Phase II and Phase III assessments revealed high levels and widespread distribution of arsenic and lead contaminated soils surrounding the former smelters. Based on the results of the 1992 sampling efforts, a Preliminary Assessment (PA) was performed in August 1992. Focused Site Inspections were performed for the Davenport and Flagstaff Smelter sites in 1994. Additional sampling activities were conducted in June 1994 near the former smelter sites in order to determine the distribution of the soil contamination dispersed away from the source area via air, surface water, or groundwater pathways. It was determined that the possibility of release was likely due to the proximity of surface water, proximity of the groundwater recharge area, and the commonly observed dispersion of windblown dust. A Focused Feasibility Study (FFS) screened different remedial technologies and developed two remedial alternatives, in addition to the "no action" alternative required by the National Oil and Hazardous Substances Pollution contingency Plan (NCP), for detailed evaluation. EPA initiated a potentially responsible party (PRP) search in 2000. Because over 100 years had passed since the smelters had been in operation, it was considered improbable that a viable responsible party still existed. At this time none of the companies that owned or operated the smelters exist nor could they be traced to current operating

DAVENPORT AND FLAGSTAFF SMELTERS (Continued)

1000707553

parties. EPA is continuing to search for any viable PRPs. Pursuant to policy, EPA will not take actions against a residential homeowner, unless the owner polluted the site or made existing pollution problems worse (a release or threat of release of hazardous substances) and forced a cleanup action by EPA at the Site. The site was proposed for the Superfund National Priorities List (NPL) in January 2000. The areas to be cleaned up under this ROD are the residential parcels within the area impacted by the former Davenport and Flagstaff smelters. Current land use in the ROU is primarily residential. Future land use for the entire operable unit is residential. This decision was based on current zoning and conversations with local officials and residents. Impact to ground water and surface water will be addressed under the NROU. A ROD addressing OU1, the Residential OU, was completed September 30, 2002. In preparation for implementation of the ROU remedy, field sampling and X-ray fluorescence (XRF) analyses were conducted to characterize lead and arsenic concentrations in soil to provide additional soil data for the accurate estimate of soil volumes exceeding the removal action levels of 600 mg/kg for lead and 126 mg/kg for arsenic. The pre-design sampling locations complement previously recorded lead and arsenic concentrations within the ROU and are delineated in the Report of Findings for Pre-Remedial Design Sampling Residential Operable Unit. A Time-Critical Removal Action (TCRA) was initiated on April 22, 2004 to address a minimum of four of the 20 contaminated residential properties within the area situated at the location of the former Davenport Smelter, within the Davenport and Flagstaff Smelters Superfund Site Residential Operable Unit (ROU). The removal action was time-critical "because there are residential properties which lie on top of the former Davenport smelter and contain concentrations of lead and arsenic far exceeding the action level." The TCRA states, "The proposed Removal Action will address most critical immediate threats identified during the Environmental Protection Agency's (EPA) and Utah Department of Environmental Quality's (UDEQ) sampling events which occurred from 1992 to present. Six properties within the Davenport Smelter area of the Davenport and Flagstaff Smelters Superfund Site ROU were cleaned-up under this TCRA. A Non-Time Critical Removal Action (NTCRA) was initiated May 26, 2005 to address the remaining residential properties within Operable Unit 1 (OU1) not cleaned up under the 2004 TCRA. An Explanation of Significant Differences (ESD) addressing OU1 was completed in November of 2005. Extensive sampling activities took place at OU2 during the summer of 2006. The results of the sampling activities were used to develop a Remedial Investigation (RI) Report, a Human Health Risk Assessment (HHRA), an Ecological Risk Assessment (ERA), and a Focused Feasibility Study Report (FFS). During the investigation, three residential properties within the boundaries of OU2 were found to contain lead and arsenic concentrations greater than the residential cleanup levels established for OU1. These three properties were incorporated into the OU1 cleanup and were addressed during the 2007 construction activities. Lead and arsenic have been identified as the contaminants of concern (COCs) for OU2. RI sampling results indicate that lead concentrations in soil range from 10 to 10,800 milligrams per kilogram (mg/kg), and arsenic concentrations in soil range from 1.5 mg/kg to 300 mg/kg. The elevated concentrations of lead and arsenic were found in both surface and sub-surface soils. Based on the data collected during the RI and the HHRA cleanup levels of 1,000 mg/kg lead and 3,000 mg/kg lead were established respectively for the commercial and undeveloped areas of OU2. The OU2 RI also investigated metals concentrations in surface water and ground water and did not find a significant risk to human health or the environment related to metals in these media. The FFS was performed in 2008 to screen different remedial technologies for the Site. The FFS investigated cleanup alternatives for both the commercial and undeveloped areas of OU2. EPA initiated a Potentially Responsible Party (PRP) search in 2000, focusing on the owners and operators of

MAP FINDINGS

DAVENPORT AND FLAGSTAFF SMELTERS (Continued)

1000707553

the smelters. However, none of the companies that owned or operated the smelters still exist, nor could they be traced to current operating entities. No general or special notice letters have been issued. OU2 consists of a mixture of commercial and undeveloped land. Three residences within the boundaries of OU2 were investigated during the RI and were addressed as part of the OU1 cleanup. The commercial portion of OU2 encompasses the La Caille restaurant, and the surrounding grounds and vineyards associated with the restaurant. The undeveloped area consists of: property owned by Salt Lake City as part of their watershed protection program; the right of way for Wasatch Boulevard owned by Salt Lake County; a parcel owned by the City of Sandy; and a parcel near the Little Cottonwood Creek that is part of the La Caille property. The land use surrounding the Site is primarily residential. The La Caille restaurant is one of the valley's premier restaurants. The grounds are groomed and well-maintained and are often used to host weddings and other receptions. In addition to being a watershed protection area (as designated by Salt Lake City), the undeveloped area is used for recreational purposes as well. Area residents have been observed using the property for hiking and walking dogs, and have expressed interest in continuing this use. Other recreational uses have not been observed. Based on conversations with Salt Lake City and Salt Lake County, the future use of the portions of OU2 owned by Salt Lake City, Salt Lake County and Sandy City is unlikely to change from the observed present use as a watershed protection area, with occasional recreational use. Due to the proximity to the mouth of Little Cottonwood Canyon and the Salt Lake Valley, along with the recent development of neighboring properties for residential use, it is possible that the portion of OU2 owned by La Caille will be eventually developed for residential use. The Little Cottonwood Creek is a perennial stream that flows west through the Site and eventually discharges to the Jordan River in the Salt Lake Valley. In addition to the Creek, there are a number of man-made and naturally occurring ponds as well as an extensive wetlands system fed by naturally occurring springs. The current use of surface water within the Site itself is recreational with some agricultural use. However, the Metropolitan Water District of Salt Lake and Sandy Little Cottonwood Treatment Plant is located approximately 0.5 miles down stream of the Site and treats and supplies drinking water to approximately 500,000 people. Based on conversations with current property owners and the water district the use of surface water associated with the Site is not anticipated to change. There is no current use of ground water and no direct human exposure to ground water at the Site. Due to the limited extent and discontinuous nature of the perched aquifer ground water at the Site is an unlikely source of drinking water. The agencies have not performed an investigation to specifically determine the extent of the perched aquifer; however, since ground water was not encountered at four of the eight locations attempted, it appears that the perched aquifer is discontinuous. The presence of a discontinuous perched aquifer is compatible with the geologic and hydrogeologic features described in the RI. Based on the fact that the contamination in the perched aquifer was just slightly above the MCL and the depth to the deeper aquifer is greater than 100 ft bgs, the contamination observed is at such low levels that the perched ground water in this area is not expected to adversely impact the deeper drinking water aquifer that underlies the entire Salt Lake Valley, nor is it expected to represent any threat to surface water in the Little Cottonwood Creek. The deep aquifer that runs below the Site is not being used or anticipated to be used at the Site and is not expected to be impacted by contamination from the Site. Based on the limited extent and discontinuous nature of the perched aquifer no future use of the perched ground water is anticipated. A Record of Decision (ROD) Davenport and Flagstaff Smelters Superfund Site addresses address contaminated soil from historical smelter operations on both commercial and undeveloped land

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVENPORT AND FLAGSTAFF SMELTERS (Continued)

1000707553

as Operable Unit (OU) 02. A Record of Decision (ROD) for Davenport and Flagstaff Smelters Superfund Site was signed in September 2009.

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: / /
Date Completed: 04/20/92
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 10/27/92
Priority Level: Higher priority for further assessment
Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: SITE INSPECTION
Date Started: 05/24/94
Date Completed: 04/05/96
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information
Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: RISK/HEALTH ASSESSMENT
Date Started: 02/01/99
Date Completed: 07/19/99
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: ENGINEERING EVALUATION/COST ANALYSIS
Date Started: 03/01/98
Date Completed: 08/28/00
Priority Level: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVENPORT AND FLAGSTAFF SMELTERS (Continued)

1000707553

Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Other Completion Anomaly

Action Code: 001
Action: HAZARD RANKING SYSTEM PACKAGE
Date Started: 11/29/99
Date Completed: 09/29/00
Priority Level: Being considered for proposal to the NPL
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PROPOSAL TO NATIONAL PRIORITIES LIST
Date Started: / /
Date Completed: 12/01/00
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: RISK/HEALTH ASSESSMENT
Date Started: 01/02/01
Date Completed: 02/01/01
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH
Date Started: 02/15/01
Date Completed: 12/14/01
Priority Level: Search Complete, No Viable PRPs
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 08/28/00
Date Completed: 09/30/02
Priority Level: Not reported
Operable Unit: RESIDENTIAL SOILS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVENPORT AND FLAGSTAFF SMELTERS (Continued)

1000707553

Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: RECORD OF DECISION
Date Started: / /
Date Completed: 09/30/02
Priority Level: Not reported
Operable Unit: RESIDENTIAL SOILS
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: FINAL LISTING ON NATIONAL PRIORITIES LIST
Date Started: / /
Date Completed: 04/30/03
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: REMOVAL ASSESSMENT
Date Started: 09/23/03
Date Completed: 06/07/04
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: TECHNICAL ASSISTANCE
Date Started: 07/13/04
Date Completed: 07/26/04
Priority Level: Not reported
Operable Unit: RESIDENTIAL SOILS
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: NOTICE OF INTENT TO PARTIALLY DELETE
Date Started: / /
Date Completed: 08/20/04
Priority Level: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVENPORT AND FLAGSTAFF SMELTERS (Continued)

1000707553

Operable Unit: RESIDENTIAL SOILS
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PARTIAL NATIONAL PRIORITIES LIST DELETION
Date Started: / /
Date Completed: 10/19/04
Priority Level: Not reported
Operable Unit: RESIDENTIAL SOILS
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: REMOVAL
Date Started: 06/07/04
Date Completed: 03/04/05
Priority Level: Cleaned up
Operable Unit: RESIDENTIAL SOILS
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Time Critical
Action Anomaly: Not reported

Action Code: 001
Action: ADMINISTRATIVE RECORDS
Date Started: 02/17/04
Date Completed: 05/26/05
Priority Level: Admin Record Compiled for a Remedial Event
Operable Unit: RESIDENTIAL SOILS
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: REMEDIAL DESIGN
Date Started: 12/18/02
Date Completed: 05/28/05
Priority Level: Not reported
Operable Unit: RESIDENTIAL SOILS
Primary Responsibility: State, Fund Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Other Completion Anomaly

Action Code: 001
Action: Explanation Of Significant Differences
Date Started: / /
Date Completed: 11/15/05
Priority Level: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVENPORT AND FLAGSTAFF SMELTERS (Continued)

1000707553

Operable Unit: RESIDENTIAL SOILS
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PROSPECTIVE PURCHASER AGREEMENT ASSESSMENT
Date Started: 12/15/04
Date Completed: 02/02/06
Priority Level: Not reported
Operable Unit: DEVELOPERS RESIDENTIAL SOILS
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 02/02/06
Priority Level: Not reported
Operable Unit: DEVELOPERS RESIDENTIAL SOILS
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: POTENTIALLY RESPONSIBLE PARTY REMOVAL
Date Started: 04/01/06
Date Completed: 10/01/07
Priority Level: Cleaned up
Operable Unit: DEVELOPERS RESIDENTIAL SOILS
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Non-Time Critical
Action Anomaly: Not reported

Action Code: 002
Action: REMOVAL
Date Started: 05/28/05
Date Completed: 09/30/08
Priority Level: Cleaned up
Operable Unit: RESIDENTIAL SOILS
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Non-Time Critical
Action Anomaly: Not reported

Action Code: 002
Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 05/16/05
Date Completed: 09/16/09

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVENPORT AND FLAGSTAFF SMELTERS (Continued)

1000707553

Priority Level: Not reported
Operable Unit: NON-RES. LITTLE COTTON CREEK
Primary Responsibility: State, Fund Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: RECORD OF DECISION
Date Started: / /
Date Completed: 09/16/09
Priority Level: Final Remedy Selected at Site
Operable Unit: NON-RES. LITTLE COTTON CREEK
Primary Responsibility: State, with EPA Concurrence
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: REMEDIAL DESIGN
Date Started: 09/30/08
Date Completed: 05/02/11
Priority Level: Not reported
Operable Unit: NON-RES. LITTLE COTTON CREEK
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: SITE ACCESS
Date Started: / /
Date Completed: 05/20/11
Priority Level: Not reported
Operable Unit: NON-RES. LITTLE COTTON CREEK
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: SITE ACCESS
Date Started: / /
Date Completed: 08/03/11
Priority Level: Not reported
Operable Unit: NON-RES. LITTLE COTTON CREEK
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: Explanation Of Significant Differences
Date Started: / /

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVENPORT AND FLAGSTAFF SMELTERS (Continued)

1000707553

Date Completed: 07/03/12
Priority Level: Not reported
Operable Unit: NON-RES. LITTLE COTTON CREEK
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: FIVE-YEAR REVIEW
Date Started: 09/15/10
Date Completed: 07/24/12
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PRELIMINARY CLOSE-OUT REPORT PREPARED
Date Started: / /
Date Completed: 08/30/12
Priority Level: Not reported
Operable Unit: NON-RES. LITTLE COTTON CREEK
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: REMEDIAL ACTION
Date Started: 09/23/10
Date Completed: 09/24/12
Priority Level: Not reported
Operable Unit: NON-RES. LITTLE COTTON CREEK
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Long Term Action
Action Anomaly: Not reported

Federal Register Details:

Fed Register Date: 04/30/03
Fed Register Volume: 68
Page Number: 23077

Fed Register Date: 12/01/00
Fed Register Volume: 65
Page Number: 75215

US ENG CONTROLS:

EPA ID: UTD988075719
Site ID: 0801257
Name: DAVENPORT AND FLAGSTAFF SMELTERS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVENPORT AND FLAGSTAFF SMELTERS (Continued)

1000707553

Address: 1 MILE W OF INTERSECTION USH 209 AND 210
SANDY, UT 84092
EPA Region: 08
County: SALT LAKE
Event Code: Not reported
Actual Date: 09/30/2012
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 11/15/2005
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Disposal
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 11/15/2005
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Dust Suppression
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 11/15/2005
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Excavation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 11/15/2005
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Revegetation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 11/15/2005
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Solidification/Stabilization (Ex-Situ)
Contact Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVENPORT AND FLAGSTAFF SMELTERS (Continued)

1000707553

Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: Explanation Of Significant Differences
Action Completion date: 07/03/2012
Operable Unit: 02
Contaminated Media : Soil
Engineering Control: Non-fundamental change (ESD)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2002
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Disposal
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2002
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Dust Suppression
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2002
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Excavation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2002
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Revegetation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2002
Operable Unit: 01

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVENPORT AND FLAGSTAFF SMELTERS (Continued)

1000707553

Contaminated Media : Soil
Engineering Control: Treatment, (N.O.S.)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2002
Operable Unit: 01
Contaminated Media : Solid Waste
Engineering Control: Disposal
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2002
Operable Unit: 01
Contaminated Media : Solid Waste
Engineering Control: Excavation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 09/16/2009
Operable Unit: 02
Contaminated Media : Soil
Engineering Control: Consolidate
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 09/16/2009
Operable Unit: 02
Contaminated Media : Soil
Engineering Control: Disposal
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 09/16/2009
Operable Unit: 02
Contaminated Media : Soil
Engineering Control: Excavation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVENPORT AND FLAGSTAFF SMELTERS (Continued)

1000707553

Action Name: RECORD OF DECISION
Action Completion date: 09/16/2009
Operable Unit: 02
Contaminated Media : Soil
Engineering Control: Solidification/Stabilization (Ex-Situ)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

US INST CONTROL:

EPA ID: UTD988075719
Site ID: 0801257
Name: DAVENPORT AND FLAGSTAFF SMELTERS
Action Name: Explanation Of Significant Differences
Address: 1 MILE W OF INTERSECTION USH 209 AND 210
SANDY, UT 84092

EPA Region: 08
County: SALT LAKE
Event Code: Not reported
Inst. Control: Deed Notices
Actual Date: 12/31/2005
Comple. Date: 11/15/2005
Operable Unit: 01
Contaminated Media : Soil
Contact Name : Not reported
Contact Phone and Ext :Not reported
Event Code Description: Not reported

EPA ID: UTD988075719
Site ID: 0801257
Name: DAVENPORT AND FLAGSTAFF SMELTERS
Action Name: Explanation Of Significant Differences
Address: 1 MILE W OF INTERSECTION USH 209 AND 210
SANDY, UT 84092

EPA Region: 08
County: SALT LAKE
Event Code: Not reported
Inst. Control: Easement
Actual Date: 12/31/2005
Comple. Date: 11/15/2005
Operable Unit: 01
Contaminated Media : Soil
Contact Name : Not reported
Contact Phone and Ext :Not reported
Event Code Description: Not reported

EPA ID: UTD988075719
Site ID: 0801257
Name: DAVENPORT AND FLAGSTAFF SMELTERS
Action Name: Explanation Of Significant Differences
Address: 1 MILE W OF INTERSECTION USH 209 AND 210
SANDY, UT 84092

EPA Region: 08
County: SALT LAKE
Event Code: Not reported
Inst. Control: Zoning regulation

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVENPORT AND FLAGSTAFF SMELTERS (Continued)

1000707553

Actual Date: 12/31/2005
Compleat. Date: 11/15/2005
Operable Unit: 01
Contaminated Media : Soil
Contact Name : Not reported
Contact Phone and Ext :Not reported
Event Code Description:Not reported

EPA ID: UTD988075719
Site ID: 0801257
Name: DAVENPORT AND FLAGSTAFF SMELTERS
Action Name: RECORD OF DECISION
Address: 1 MILE W OF INTERSECTION USH 209 AND 210
SANDY, UT 84092

EPA Region: 08
County: SALT LAKE
Event Code: Not reported
Inst. Control: Deed Notices
Actual Date: 09/30/2002
Compleat. Date: 09/30/2002
Operable Unit: 01
Contaminated Media : Soil
Contact Name : Not reported
Contact Phone and Ext :Not reported
Event Code Description:Not reported

EPA ID: UTD988075719
Site ID: 0801257
Name: DAVENPORT AND FLAGSTAFF SMELTERS
Action Name: RECORD OF DECISION
Address: 1 MILE W OF INTERSECTION USH 209 AND 210
SANDY, UT 84092

EPA Region: 08
County: SALT LAKE
Event Code: Not reported
Inst. Control: Easement
Actual Date: 09/30/2002
Compleat. Date: 09/30/2002
Operable Unit: 01
Contaminated Media : Soil
Contact Name : Not reported
Contact Phone and Ext :Not reported
Event Code Description:Not reported

EPA ID: UTD988075719
Site ID: 0801257
Name: DAVENPORT AND FLAGSTAFF SMELTERS
Action Name: RECORD OF DECISION
Address: 1 MILE W OF INTERSECTION USH 209 AND 210
SANDY, UT 84092

EPA Region: 08
County: SALT LAKE
Event Code: Not reported
Inst. Control: Zoning regulation
Actual Date: 09/30/2002
Compleat. Date: 09/30/2002
Operable Unit: 01

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVENPORT AND FLAGSTAFF SMELTERS (Continued)

1000707553

Contaminated Media : Soil
Contact Name : Not reported
Contact Phone and Ext :Not reported
Event Code Description:Not reported

EPA ID: UTD988075719
Site ID: 0801257
Name: DAVENPORT AND FLAGSTAFF SMELTERS
Action Name: RECORD OF DECISION
Address: 1 MILE W OF INTERSECTION USH 209 AND 210
SANDY, UT 84092

EPA Region: 08
County: SALT LAKE
Event Code: Not reported
Inst. Control: Covenant
Actual Date: 09/30/2009
Comple. Date: 09/16/2009
Operable Unit: 02
Contaminated Media : Soil
Contact Name : Not reported
Contact Phone and Ext :Not reported
Event Code Description:Not reported

EPA ID: UTD988075719
Site ID: 0801257
Name: DAVENPORT AND FLAGSTAFF SMELTERS
Action Name: RECORD OF DECISION
Address: 1 MILE W OF INTERSECTION USH 209 AND 210
SANDY, UT 84092

EPA Region: 08
County: SALT LAKE
Event Code: Not reported
Inst. Control: Land Use Restriction
Actual Date: 09/30/2009
Comple. Date: 09/16/2009
Operable Unit: 02
Contaminated Media : Soil
Contact Name : Not reported
Contact Phone and Ext :Not reported
Event Code Description:Not reported

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

PRP:

PRP name: L.C. CANYON PARTNERS, LLC

Lead Smelter Sites:

Site ID: 0801257
Facility Region Id: 08
Latitude: +40.573610
Longitude: -111.791940
CoC Ind: N
Contaminant Name: ARSENIC
FF Ind: N
NAI: N

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

DAVENPORT AND FLAGSTAFF SMELTERS (Continued)

1000707553

Non-Primary Site-Sub Type:	Not reported
NPL:	Currently on the Final NPL
Primary Site-Sub Type:	Primary metals/mineral processing (Manufacturing/Processing/Maintenance)
Special Initiative:	Not reported
Site ID:	0801257
Facility Region Id:	08
Latitude:	+40.573610
Longitude:	-111.791940
CoC Ind:	Y
Contaminant Name:	ARSENIC
FF Ind:	N
NAI:	N
Non-Primary Site-Sub Type:	Not reported
NPL:	Currently on the Final NPL
Primary Site-Sub Type:	Primary metals/mineral processing (Manufacturing/Processing/Maintenance)
Special Initiative:	Not reported
Site ID:	0801257
Facility Region Id:	08
Latitude:	+40.573610
Longitude:	-111.791940
CoC Ind:	N
Contaminant Name:	LEAD
FF Ind:	N
NAI:	N
Non-Primary Site-Sub Type:	Not reported
NPL:	Currently on the Final NPL
Primary Site-Sub Type:	Primary metals/mineral processing (Manufacturing/Processing/Maintenance)
Special Initiative:	Not reported
Site ID:	0801257
Facility Region Id:	08
Latitude:	+40.573610
Longitude:	-111.791940
CoC Ind:	Y
Contaminant Name:	LEAD
FF Ind:	N
NAI:	N
Non-Primary Site-Sub Type:	Not reported
NPL:	Currently on the Final NPL
Primary Site-Sub Type:	Primary metals/mineral processing (Manufacturing/Processing/Maintenance)
Special Initiative:	Not reported

2

FIX IT MAN REPR SHOP
3340 LITTLE COTTONWOOD RD
SANDY, UT 84070

EDR Hist Auto 1014185502
N/A

< 1/8
 1 ft.

EDR Hist Auto

Relative:
Lower

Year: Name:
 1985 FIX IT MAN REPR SHOP

Type:
 REPAIR SHOPS

Actual:
5217 ft.

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ALTA	1003877828	NORTH STAR SMELTER	LITTLE COTTONWOOD CANYON	84092	SEMS-ARCHIVE, LEAD SMELTERS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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

Date of Government Version: 04/05/2017	Source: EPA
Date Data Arrived at EDR: 04/21/2017	Telephone: N/A
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 06/08/2017
Number of Days to Update: 21	Next Scheduled EDR Contact: 07/17/2017
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/05/2017	Source: EPA
Date Data Arrived at EDR: 04/21/2017	Telephone: N/A
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 06/09/2017
Number of Days to Update: 21	Next Scheduled EDR Contact: 07/17/2017
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

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

Date of Government Version: 04/05/2017	Source: EPA
Date Data Arrived at EDR: 04/21/2017	Telephone: N/A
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 06/09/2017
Number of Days to Update: 21	Next Scheduled EDR Contact: 07/17/2017
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

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

Date of Government Version: 11/07/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/05/2017	Telephone: 703-603-8704
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 04/07/2017
Number of Days to Update: 92	Next Scheduled EDR Contact: 07/17/2017
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

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

Date of Government Version: 02/07/2017	Source: EPA
Date Data Arrived at EDR: 04/19/2017	Telephone: 800-424-9346
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 06/08/2017
Number of Days to Update: 16	Next Scheduled EDR Contact: 07/31/2017
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 02/07/2017	Source: EPA
Date Data Arrived at EDR: 04/19/2017	Telephone: 800-424-9346
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 06/08/2017
Number of Days to Update: 16	Next Scheduled EDR Contact: 07/31/2017
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/12/2016	Source: EPA
Date Data Arrived at EDR: 12/28/2016	Telephone: 800-424-9346
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

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

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: 303-312-6149
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

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

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: 303-312-6149
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: 303-312-6149
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

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

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: 303-312-6149
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

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

Date of Government Version: 12/28/2016	Source: Department of the Navy
Date Data Arrived at EDR: 01/04/2017	Telephone: 843-820-7326
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 05/15/2017
Number of Days to Update: 93	Next Scheduled EDR Contact: 08/28/2017
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

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

Date of Government Version: 02/13/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/28/2017	Telephone: 703-603-0695
Date Made Active in Reports: 06/09/2017	Last EDR Contact: 05/31/2017
Number of Days to Update: 101	Next Scheduled EDR Contact: 09/11/2017
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

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

Date of Government Version: 02/13/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/28/2017	Telephone: 703-603-0695
Date Made Active in Reports: 06/09/2017	Last EDR Contact: 05/31/2017
Number of Days to Update: 101	Next Scheduled EDR Contact: 09/11/2017
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

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

Date of Government Version: 09/26/2016

Date Data Arrived at EDR: 09/29/2016

Date Made Active in Reports: 11/11/2016

Number of Days to Update: 43

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 03/29/2017

Next Scheduled EDR Contact: 07/10/2017

Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A

Date Data Arrived at EDR: N/A

Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: Department of Environmental Quality

Telephone: 801-536-4100

Last EDR Contact: 04/24/2017

Next Scheduled EDR Contact: 08/07/2017

Data Release Frequency: N/A

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: List of Landfills

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 01/12/2017

Date Data Arrived at EDR: 01/18/2017

Date Made Active in Reports: 04/14/2017

Number of Days to Update: 86

Source: Department of Environmental Quality

Telephone: 801-538-6170

Last EDR Contact: 04/10/2017

Next Scheduled EDR Contact: 07/24/2017

Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LAST: Leaking Aboveground Storage Tank Sites

A listing of leaking aboveground storage tank locations.

Date of Government Version: 12/08/2016

Date Data Arrived at EDR: 12/13/2016

Date Made Active in Reports: 02/01/2017

Number of Days to Update: 50

Source: Department of Environmental Quality

Telephone: 801-536-4141

Last EDR Contact: 06/05/2017

Next Scheduled EDR Contact: 09/18/2017

Data Release Frequency: Varies

LUST: Sites with Leaking Underground Storage Tanks

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 01/18/2017

Date Data Arrived at EDR: 01/20/2017

Date Made Active in Reports: 03/20/2017

Number of Days to Update: 59

Source: Department of Environmental Quality

Telephone: 801-536-4115

Last EDR Contact: 04/19/2017

Next Scheduled EDR Contact: 07/31/2017

Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/26/2017	Telephone: 206-553-2857
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/06/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/26/2017	Telephone: 415-972-3372
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/17/2016	Source: EPA Region 8
Date Data Arrived at EDR: 01/26/2017	Telephone: 303-312-6271
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/01/2016	Source: EPA Region 7
Date Data Arrived at EDR: 01/26/2017	Telephone: 913-551-7003
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/01/2016	Source: EPA Region 6
Date Data Arrived at EDR: 01/26/2017	Telephone: 214-665-6597
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 11/14/2016	Source: EPA Region 1
Date Data Arrived at EDR: 01/26/2017	Telephone: 617-918-1313
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2016	Source: EPA Region 4
Date Data Arrived at EDR: 01/27/2017	Telephone: 404-562-8677
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 98	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/14/2016	Source: EPA, Region 5
Date Data Arrived at EDR: 01/26/2017	Telephone: 312-886-7439
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 04/11/2017
Number of Days to Update: 55	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: Varies

UST: List of Sites with Underground Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 01/18/2017	Source: Department of Environmental Quality
Date Data Arrived at EDR: 01/20/2017	Telephone: 801-536-4115
Date Made Active in Reports: 03/20/2017	Last EDR Contact: 04/19/2017
Number of Days to Update: 59	Next Scheduled EDR Contact: 07/31/2017
	Data Release Frequency: Quarterly

AST: Listing of Aboveground Storage Tanks

Aboveground storage tank site locations.

Date of Government Version: 12/08/2016	Source: Department of Environmental Quality
Date Data Arrived at EDR: 12/13/2016	Telephone: 801-536-4100
Date Made Active in Reports: 02/01/2017	Last EDR Contact: 06/05/2017
Number of Days to Update: 50	Next Scheduled EDR Contact: 09/18/2017
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/26/2017	Telephone: 206-553-2857
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/06/2016	Source: EPA Region 9
Date Data Arrived at EDR: 01/26/2017	Telephone: 415-972-3368
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/17/2016	Source: EPA Region 8
Date Data Arrived at EDR: 01/26/2017	Telephone: 303-312-6137
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 11/14/2016	Source: EPA, Region 1
Date Data Arrived at EDR: 01/26/2017	Telephone: 617-918-1313
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2016	Source: EPA Region 4
Date Data Arrived at EDR: 01/27/2017	Telephone: 404-562-9424
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

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

Date of Government Version: 09/01/2016	Source: EPA Region 7
Date Data Arrived at EDR: 01/26/2017	Telephone: 913-551-7003
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/01/2016	Source: EPA Region 6
Date Data Arrived at EDR: 01/26/2017	Telephone: 214-665-7591
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

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

Date of Government Version: 01/14/2017	Source: EPA Region 5
Date Data Arrived at EDR: 01/26/2017	Telephone: 312-886-6136
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal institutional control / engineering control registries

INST CONTROL: Sites with Institutional Controls

Sites included on the Brownfields Sites listing that have institutional controls in place.

Date of Government Version: 01/31/2017	Source: Department of Environmental Quality
Date Data Arrived at EDR: 02/02/2017	Telephone: 801-536-4100
Date Made Active in Reports: 03/20/2017	Last EDR Contact: 04/26/2017
Number of Days to Update: 46	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

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

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 03/27/2017
Number of Days to Update: 142	Next Scheduled EDR Contact: 07/10/2017
	Data Release Frequency: Varies

VCP: Voluntary Cleanup Sites List

The purpose of the program is to encourage the voluntary cleanup of sites where there has been a contaminant release threatening public health and the environment, thereby removing the stigma attached to these sites which blocks economic redevelopment. Voluntary cleanup of these sites will hopefully result in clearing the pathway for returning these properties to beneficial use.

Date of Government Version: 11/16/2016	Source: Department of Environmental Quality
Date Data Arrived at EDR: 11/18/2016	Telephone: 801-536-4100
Date Made Active in Reports: 02/01/2017	Last EDR Contact: 05/15/2017
Number of Days to Update: 75	Next Scheduled EDR Contact: 08/28/2017
	Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Assessment Sites

A Brownfields site means real property, the expansion, redevelopment or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant or contaminant, controlled substance or petroleum product.

Date of Government Version: 11/04/2016	Source: Department of Environmental Quality
Date Data Arrived at EDR: 11/18/2016	Telephone: 801-536-4100
Date Made Active in Reports: 12/21/2016	Last EDR Contact: 05/15/2017
Number of Days to Update: 33	Next Scheduled EDR Contact: 08/28/2017
	Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/02/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2017	Telephone: 202-566-2777
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 03/02/2017
Number of Days to Update: 36	Next Scheduled EDR Contact: 07/03/2017
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 05/01/2017
Number of Days to Update: 52	Next Scheduled EDR Contact: 08/14/2017
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 04/24/2017
Number of Days to Update: 137	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014	Source: Department of Health & Human Services, Indian Health Service
Date Data Arrived at EDR: 08/06/2014	Telephone: 301-443-1452
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 05/05/2017
Number of Days to Update: 176	Next Scheduled EDR Contact: 08/14/2017
	Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/09/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 93

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: No Update Planned

CDL: Methamphetamine Contaminated Properties Listing

Utah Administrative Rule 19-6-901 Illegal Drug Operations Site Reporting and Decontamination Act requires local health departments to maintain a list of properties believed to be contaminated by the illegal manufacture of drugs. The following properties were reported to the Salt Lake Valley Health Department by a complaint or report from a law enforcement agency and the Department has determined that reasonable evidence exists that the property is contaminated.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 03/20/2017
Number of Days to Update: 26

Source: Salt Lake Valley Health Department
Telephone: 801-468-2750
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

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

Date of Government Version: 02/09/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 93

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

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

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 37

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

SPILLS: Spills Data

Incidents reported to the Division of Environmental Response and Remediation

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/29/2016
Date Data Arrived at EDR: 12/02/2016
Date Made Active in Reports: 02/01/2017
Number of Days to Update: 61

Source: Department of Environmental Quality
Telephone: 801-536-4100
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Semi-Annually

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 07/31/2011
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/11/2013
Number of Days to Update: 39

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

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

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

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 303-312-6149
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

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

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/24/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

DOD: Department of Defense Sites

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: N/A

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

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

Date of Government Version: 01/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 05/19/2017
Number of Days to Update: 63	Next Scheduled EDR Contact: 08/28/2017
	Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

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

Date of Government Version: 02/13/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/15/2017	Telephone: 202-566-1917
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 05/17/2017
Number of Days to Update: 86	Next Scheduled EDR Contact: 08/28/2017
	Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

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

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 05/08/2017
Number of Days to Update: 88	Next Scheduled EDR Contact: 08/21/2017
	Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

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

Date of Government Version: 04/22/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/03/2015	Telephone: 703-308-4044
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 05/05/2017
Number of Days to Update: 6	Next Scheduled EDR Contact: 08/21/2017
	Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

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

Date of Government Version: 12/31/2012	Source: EPA
Date Data Arrived at EDR: 01/15/2015	Telephone: 202-260-5521
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 03/24/2017
Number of Days to Update: 14	Next Scheduled EDR Contact: 07/03/2017
	Data Release Frequency: Every 4 Years

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TRIS: Toxic Chemical Release Inventory System

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

Date of Government Version: 12/31/2014	Source: EPA
Date Data Arrived at EDR: 11/24/2015	Telephone: 202-566-0250
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 05/26/2017
Number of Days to Update: 133	Next Scheduled EDR Contact: 09/04/2017
	Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

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

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 04/26/2017
Number of Days to Update: 77	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Annually

ROD: Records Of Decision

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

Date of Government Version: 11/25/2013	Source: EPA
Date Data Arrived at EDR: 12/12/2013	Telephone: 703-416-0223
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 06/09/2017
Number of Days to Update: 74	Next Scheduled EDR Contact: 09/18/2017
	Data Release Frequency: Annually

RMP: Risk Management Plans

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

Date of Government Version: 02/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/09/2017	Telephone: 202-564-8600
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 04/21/2017
Number of Days to Update: 57	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 06/06/2017
Number of Days to Update: 3	Next Scheduled EDR Contact: 08/21/2017
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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

Date of Government Version: 01/20/2016	Source: EPA
Date Data Arrived at EDR: 04/28/2016	Telephone: 202-566-0500
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 04/10/2017
Number of Days to Update: 127	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

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

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 04/10/2017
Number of Days to Update: 79	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 05/19/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/04/2017
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 05/19/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/04/2017
	Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

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

Date of Government Version: 08/30/2016	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 09/08/2016	Telephone: 301-415-7169
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 05/08/2017
Number of Days to Update: 43	Next Scheduled EDR Contact: 08/21/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data

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

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 06/05/2017
Number of Days to Update: 76	Next Scheduled EDR Contact: 09/18/2017
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

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

Date of Government Version: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 06/05/2017
Number of Days to Update: 40	Next Scheduled EDR Contact: 09/18/2017
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

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

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 04/28/2017
Number of Days to Update: 83	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

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

Date of Government Version: 01/04/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/06/2017	Telephone: 202-343-9775
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 04/06/2017
Number of Days to Update: 35	Next Scheduled EDR Contact: 07/17/2017
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

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

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

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

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

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 09/30/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 77

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

BRS: Biennial Reporting System

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

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/26/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

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

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

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

Date of Government Version: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/05/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

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

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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

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

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/08/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 38

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/05/2005	Source: USGS
Date Data Arrived at EDR: 02/29/2008	Telephone: 703-648-7709
Date Made Active in Reports: 04/18/2008	Last EDR Contact: 05/31/2017
Number of Days to Update: 49	Next Scheduled EDR Contact: 09/11/2017
	Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 06/02/2017
Number of Days to Update: 97	Next Scheduled EDR Contact: 09/11/2017
	Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/14/2017	Source: Department of Interior
Date Data Arrived at EDR: 03/17/2017	Telephone: 202-208-2609
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 06/09/2017
Number of Days to Update: 21	Next Scheduled EDR Contact: 09/25/2017
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

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

Date of Government Version: 04/04/2017	Source: EPA
Date Data Arrived at EDR: 04/07/2017	Telephone: (303) 312-6312
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 06/07/2017
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/18/2017
	Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

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

Date of Government Version: 03/19/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2017	Telephone: 202-564-2280
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 06/07/2017
Number of Days to Update: 52	Next Scheduled EDR Contact: 09/18/2017
	Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

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

Date of Government Version: 06/02/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/03/2016	Telephone: 202-564-0527
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 05/24/2017
Number of Days to Update: 91	Next Scheduled EDR Contact: 09/11/2017
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015	Source: Department of Defense
Date Data Arrived at EDR: 01/29/2016	Telephone: 571-373-0407
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 05/22/2017
Number of Days to Update: 67	Next Scheduled EDR Contact: 07/31/2017
	Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

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

Date of Government Version: 02/22/2017	Source: EPA
Date Data Arrived at EDR: 02/22/2017	Telephone: 800-385-6164
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 05/24/2017
Number of Days to Update: 79	Next Scheduled EDR Contact: 09/04/2017
	Data Release Frequency: Quarterly

DRYCLEANERS: Registered Drycleaners

A listing of registered drycleaners.

Date of Government Version: 01/23/2017	Source: Department of Environmental Quality
Date Data Arrived at EDR: 01/24/2017	Telephone: 801-536-4437
Date Made Active in Reports: 03/20/2017	Last EDR Contact: 04/17/2017
Number of Days to Update: 55	Next Scheduled EDR Contact: 07/31/2017
	Data Release Frequency: Varies

EWA: Enforceable Written Assurances

EWA contains locations of potential Enforceable Written Assurance sites. EWAs will generally ensure to property owners or prospective property owners that there is no unacceptable risk to human health or the environment. EWA locations are based on coordinates derived from maps and GPS data. These locations represent sites, not contaminated areas.

Date of Government Version: 12/08/2016	Source: Department of Environmental Quality
Date Data Arrived at EDR: 12/21/2016	Telephone: 801-536-4167
Date Made Active in Reports: 02/01/2017	Last EDR Contact: 03/22/2017
Number of Days to Update: 42	Next Scheduled EDR Contact: 07/03/2017
	Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 01/12/2017	Source: Department of Environmental Quality
Date Data Arrived at EDR: 01/18/2017	Telephone: 801-538-6794
Date Made Active in Reports: 03/20/2017	Last EDR Contact: 04/24/2017
Number of Days to Update: 61	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

Financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

Date of Government Version: 12/08/2016	Source: Department of Environmental Quality
Date Data Arrived at EDR: 12/13/2016	Telephone: 801-536-4141
Date Made Active in Reports: 02/01/2017	Last EDR Contact: 06/05/2017
Number of Days to Update: 50	Next Scheduled EDR Contact: 09/18/2017
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FUDS: Formerly Used Defense Sites
Formerly used defense sites.

Date of Government Version: 01/17/2017
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 03/20/2017
Number of Days to Update: 53

Source: Utah AGRC
Telephone: 801-538-3665
Last EDR Contact: 04/26/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

MMRP: Military Munitions Response Program

Environment.MMRP contains locations of Military Munitions Response Program sites. MMRP manages the environmental, health and safety issues presented by unexploded ordnances (UXO), discarded military munitions (DMM) and munitions constituents (MC). Locations are based on coordinates derived from maps and GPS data. These locations represent sites, not contaminated areas.

Date of Government Version: 12/08/2016
Date Data Arrived at EDR: 12/21/2016
Date Made Active in Reports: 02/01/2017
Number of Days to Update: 42

Source: Department of Environmental Quality
Telephone: 801-539-4164
Last EDR Contact: 03/22/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Varies

NPDES: Permitted Facilities Listing

A listing of Division of Water Quality permits.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 11/10/2016
Date Made Active in Reports: 02/01/2017
Number of Days to Update: 83

Source: Department of Environmental Quality
Telephone: 801-538-6146
Last EDR Contact: 06/12/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Varies

TIER 2: Tier 2 Facility Listing

TIER 2 contains locations of Tier II facilities under the Emergency Planning and Community Right-to-Know Act (EPCRA). Qualifying facilities report on hazardous and toxic chemicals and are labeled either tier I or tier II. Locations are based on coordinates derived from maps and GPS data. These locations represent sites, not contaminated areas.

Date of Government Version: 12/08/2016
Date Data Arrived at EDR: 12/21/2016
Date Made Active in Reports: 02/01/2017
Number of Days to Update: 42

Source: Department of Environmental Quality
Telephone: 801-536-4152
Last EDR Contact: 03/22/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Varies

UIC: UIC Site Location Listing

A listing of underground injection control wells.

Date of Government Version: 11/29/2016
Date Data Arrived at EDR: 12/02/2016
Date Made Active in Reports: 02/01/2017
Number of Days to Update: 61

Source: Department of Natural Resources
Telephone: 801-538-5329
Last EDR Contact: 06/01/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Quarterly

UOPF: Used Oil Permitted Facilities

DSHW Permitted Used Oil Facilities contains locations in Utah of all Used Oil Facilities: Marketers, Processors, Transfer, Transport and Off-specification Permitted by UDEQ Division of Hazardous Waste (DSHW) ? Used Oil Section.

Date of Government Version: 04/22/2015
Date Data Arrived at EDR: 06/24/2015
Date Made Active in Reports: 07/06/2015
Number of Days to Update: 12

Source: Department of Environmental Quality
Telephone: 801-538-9408
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

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

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

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

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

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

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/16/2014
Number of Days to Update: 199

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Utah.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 02/01/2017
Date Made Active in Reports: 02/13/2017
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/03/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 07/22/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 123

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/18/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/12/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Provider List

Source: Department of Health

Telephone: 801-538-9299

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: Utah Geological Survey

Telephone: 801-537-3300

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SANDY PROPERTIES
3384 & 3400 LITTLE COTTONWOOD ROAD
SANDY, UT 84092

TARGET PROPERTY COORDINATES

Latitude (North):	40.571021 - 40° 34' 15.68"
Longitude (West):	111.799379 - 111° 47' 57.76"
Universal Tranverse Mercator:	Zone 12
UTM X (Meters):	432334.9
UTM Y (Meters):	4491234.0
Elevation:	5319 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	6008999 DRAPER, UT
Version Date:	2014

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

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

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

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

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).

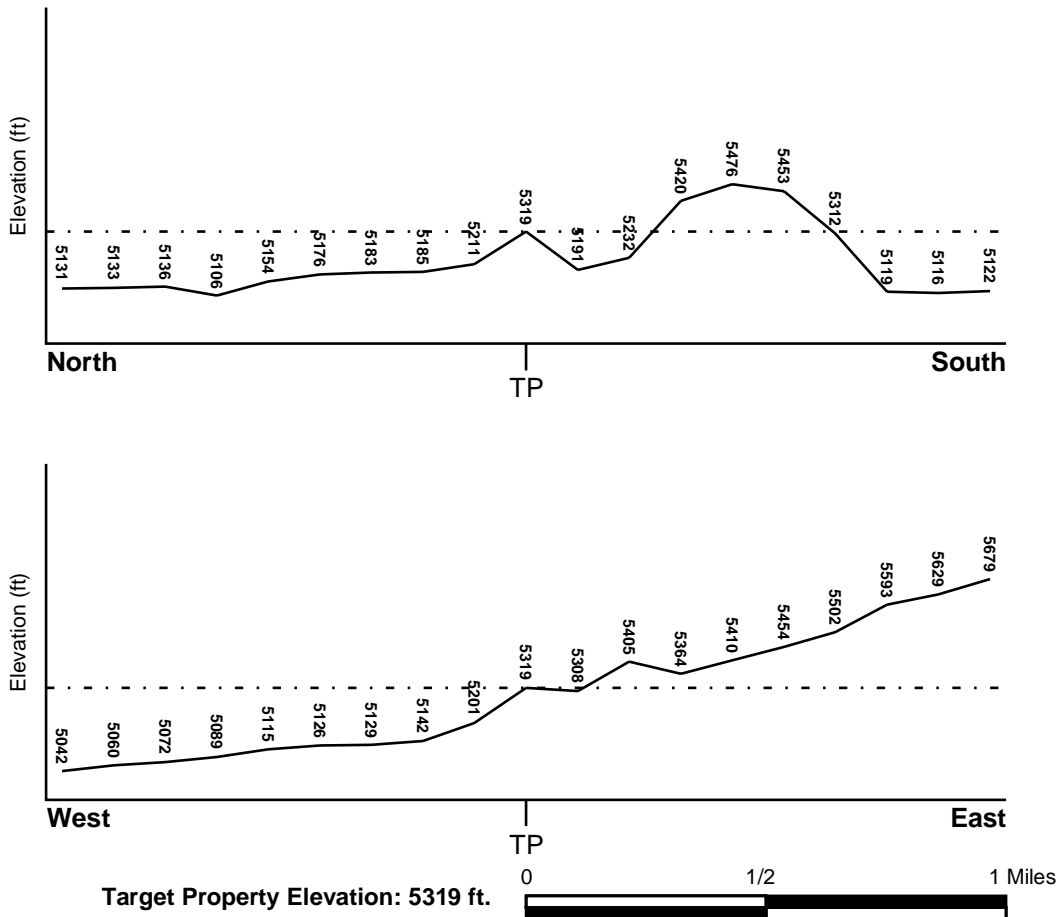
TOPOGRAPHIC INFORMATION

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 WNW

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>
49035C0458G	FEMA FIRM Flood data

<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
4901060004C	FEMA Q3 Flood data
49035C0459G	FEMA FIRM Flood data
4901020458C	FEMA Q3 Flood data
4901020454B	FEMA Q3 Flood data
49035C0462G	FEMA FIRM Flood data
49035C0466G	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

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

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

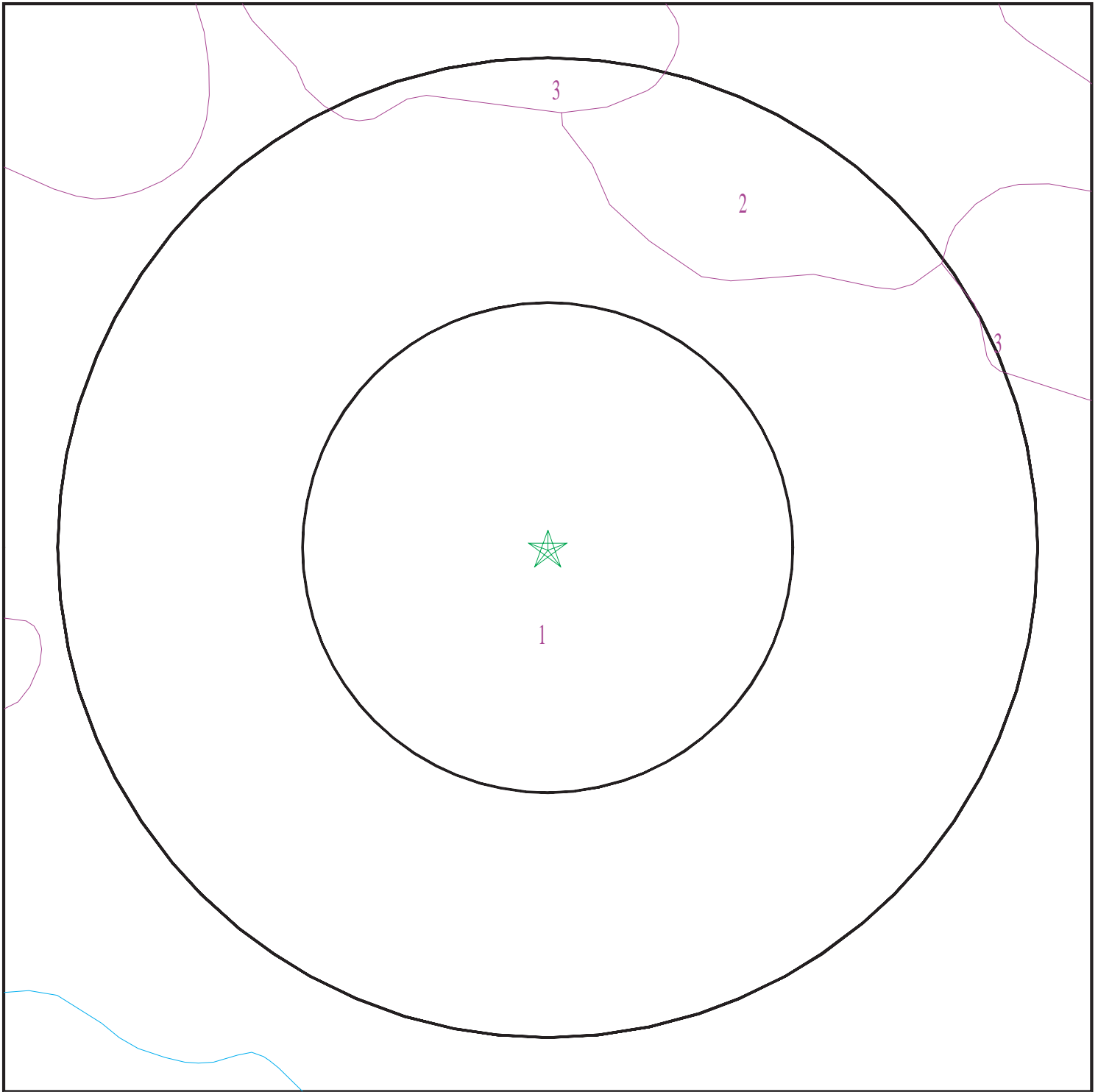
Era:	Cenozoic
System:	Tertiary
Series:	Tertiary intrusive rocks
Code:	Ti <i>(decoded above as Era, System & Series)</i>

GEOLOGIC AGE IDENTIFICATION

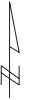
Category: Plutonic and Intrusive Rocks

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

SSURGO SOIL MAP - 4972202.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Sandy Properties
ADDRESS: 3384 & 3400 Little Cottonwood Road
Sandy UT 84092
LAT/LONG: 40.571021 / 111.799379

CLIENT: Terracon, Inc.
CONTACT: Tina Cheney
INQUIRY #: 4972202.2s
DATE: June 21, 2017 9:42 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

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

Soil Map ID: 1

Soil Component Name: STONY LAND

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: STONY TERRACE ESCARPMENTS

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: KNUTSEN

Soil Surface Texture: coarse sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42.34 Min: 14.11	Max: 7.3 Min: 6.6
2	7 inches	11 inches	gravelly coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42.34 Min: 14.11	Max: 7.8 Min: 7.4
3	11 inches	25 inches	gravelly coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42.34 Min: 14.11	Max: 7.8 Min: 7.4
4	25 inches	33 inches	gravelly coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42.34 Min: 14.11	Max: 7.8 Min: 7.4
5	33 inches	59 inches	stratified very gravelly sand to extremely gravelly sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean Gravels, Well-graded gravel.	Max: 705 Min: 141	Max: 7.8 Min: 7.4

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: UT Radon

Radon Test Results

Zipcode	Maximum	Average	Num Tests	Test Term
84092	152.0	5.9	625	Short Term
84092	26.2	3.2	121	Long Term

Federal EPA Radon Zone for SALT LAKE 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 SALT LAKE COUNTY, UT

Number of sites tested: 52

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	1.670 pCi/L	83%	15%	2%
Basement	2.960 pCi/L	56%	41%	4%

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: Utah Geological Survey

Telephone: 801-537-3300

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 Rights Database

Source: Department of Natural Resources, Division of Water Rights

Telephone: 801-538-7408

OTHER STATE DATABASE INFORMATION

Utah Oil, Gas and Mining Database

Source: Department of Natural Resources

Telephone: 801-538-5340

The Well Data file contains one record of basic information for each well in the Utah Division of Oil, Gas and Mining database.

RADON

State Database: UT Radon

Source: Department of Environmental Quality

Telephone: 801-536-4250

Test Results by Zip Code

Area Radon Information

Source: USGS

Telephone: 703-356-4020

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

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

**APPENDIX E
CREDENTIALS**

CHRISTINA CHENEY

ESA GROUP MANAGER

PROFESSIONAL EXPERIENCE

Ms. Cheney joined Neil O. Anderson and Associates, a Terracon Company, in 2004. In 2014 she began working for Terracon's Salt Lake City office. Working under the guidance of Terracon's professional engineering staff, which includes geotechnical engineers, geologists, and geoscientists, she quickly gained extensive experience in environmental site investigations and remediations.

Her specific expertise includes environmental site assessments; surface and groundwater contamination assessments, prevention, monitoring and control; risk assessments and risk reduction recommendations; soil contamination assessments, and the prevention, monitoring and control; and other areas of expertise relating to hazardous substances and/or hazardous waste management.

Ms. Cheney has 12 years of experience performing Phase I Environmental Site Assessments (ESAs). She has conducted over 200 studies, including auto shops/gasoline stations, residential properties, dairies, industrial properties, and agricultural properties. These studies have been conducted in Utah, Idaho, Colorado, and California and have followed ASTM Standard E1527-13 and EPA's All Appropriate Inquiry Standard. Phase I ESA report completion is often needed to complete the sale of commercial property. For less suspect properties, she has performed and managed the Transaction Screen Process, ASTM Standard E1528-14, and Regulatory Database Reviews, understanding the limits of those studies recommendations were sometimes needed to transition to a Phase I ESA when Potential Environmental Conditions should be more fully researched, evaluated and discussed.

PROJECT EXPERIENCE

Cobalt Phase I ESAs - Salt Lake City, Utah

Ms. Cheney served as an assistant for several concurrent Phase I ESAs for several industrial properties in the Salt Lake Valley. Reviewed historical and county records, federal, state, and local agency databases, conducted interviews, and also coauthored the report. Recognized environmental conditions were identified and, a Phase II ESA was recommended on several sites.

Sears Phase I ESAs - California and Utah

Ms. Cheney served as Project Manager for several concurrent Phase I ESAs for several Sears' stores in both California and Utah. Reviewed historical and county records, federal, state, and local agency databases, conducted interviews, and also coauthored the reports. Recognized environmental conditions were identified and, a Phase II ESA was recommended on several sites.

Ensign Group, Senior Care Facilities - Various Locations

Ms. Cheney served as Project Manager for several concurrent Phase I ESAs for senior-care facilities in Utah. She reviewed historical and county records, federal, state, and local agency databases, conducted interviews, and the reports.

Royal Woods Plaza - Salt Lake City, Utah

Ms. Cheney served as Project Manager for this project. She reviewed historical and county records, federal, state, and local agency databases, conducted



EDUCATION

*Brigham Young University,
Bachelors of Science in Recreation
Management & Leisure Services,
2002*

*Ricks College, Associates of
Science in Electronics Engineering
Technology, 1999*

*Ricks College, Associates of
Science in Computer Systems
Technology, 1999*

CERTIFICATIONS

*Registered Environmental Assessor
#30103 (2008-2012)*

AHERA: Building Inspector

WORK HISTORY

*Terracon Consultants, Inc., ESA
Group Manager, 2016-Present*

*Terracon Consultants, Inc., Staff
Environmental Scientist, 2014-2016*

*Neil O. Anderson & Associates,
Staff Environmental Scientist, 2004-
2014*

interviews, and also authored the report. She identified a former gas station at the site. Recognized environmental conditions were identified and a Phase II ESA was recommended.

Parkway Commons - Murray Utah, Utah

Ms. Cheney served as Project Manager for the Phase I ESAs and limited sampling. Sampling included radon, lead in water, and asbestos. She reviewed historical and county records, federal, state, and local agency databases, conducted interviews, and authored the report.

Wells Fargo Bank - Various Locations

Ms. Cheney served as Project Manager for several Phase I ESAs throughout Utah for Wells Fargo Bank. Visual and limited sampling for asbestos was included for some of the reports. She reviewed historical and county records, federal, state, and local agency databases, conducted interviews, and authored the reports.

The Church of Jesus Christ of Latter-day Saints - Various Locations

Ms. Cheney served as Project Manager for several Phase I ESAs throughout Utah for the Church of Jesus Christ of Latter-day Saints. She reviewed historical and county records, federal, state, and local agency databases, conducted interviews, and authored the reports.

Cosumnes River College - Sacramento, California

CEQA Initial Study – Provided environmental assessment for the construction of a new athletic field complex at Cosumnes River College Campus for the Los Rios Community College School District. Neil O. Anderson & Associates acted as the premier agent in performing Initial Study – Mitigated Negative Declarations for the site.

Elk Grove Satellite Campus - Elk Grove, California

CEQA Initial Study - Provided environmental assessment for the construction of new athletic field complex at Elk Grove Campus for the Los Rios Community College School District. Neil O. Anderson & Associates acted as the premier agent in performing both Initial Study – Mitigated Negative Declarations and Traffic Studies for the site.

Madera High School - Madera, California

Provided environmental assessment for the construction of a new high school in Madera. Neil O. Anderson & Associates acted as the premier agent in performing the Initial Study, Preliminary Environmental Assessment (PEA) Removal Action (RA) Reports for the site. Ms. Cheney reviewed the Initial Study and worked with the Project Manager on the write-up of the PEA Workplan, PEA, RA Workplan, and RA reports.

Chinchiolo Stemilt Groundwater Monitoring - Stockton, California

Ms. Cheney served as a staff scientist on this project, which involved quarterly and annual monitoring to the Central Valley Regional Water Quality Control Board. Responsibilities included creating groundwater contour maps from groundwater data collected from on-site monitoring wells, calculating the flow direction and hydraulic gradient of groundwater at the subject property, analyzing and interpreting analytical data, and compiling the quarterly and annual reports.

Grupe Real Estate Phase I ESAs - Alamo, Martinez, Lafayette, El Dorado Hills, California

Ms. Cheney served as Project Manager for four concurrent Phase I ESAs for proposed residential developments in Contra Costa County and El Dorado County. Reviewed historical and county records, federal, state, and local agency databases, conducted interviews, and also coauthored the report. Recognized environmental conditions, including possible lead-based paint, asbestos, and pesticides, were identified on one subject property; a Phase II ESA was recommended.

Benjamin B. Bowers

ENVIRONMENTAL DEPARTMENT MANAGER

PROFESSIONAL EXPERIENCE

Mr. Bowers is the Environmental Department Manager in Terracon's Salt Lake City office. He has more than 18 years of valuable and proactive experience in the environmental, construction materials and geotechnical consulting fields. His experience includes Phase I, II, and III environmental site assessments (ESAs), National Environmental Policy Act (NEPA), Brownfields, subsurface investigations, remediation, asbestos inspections, construction materials testing, and geotechnical engineering. His expertise complements projects that require multiple consulting services and enhances the sharing of information and understanding between the environmental, construction materials, and geotechnical disciplines. Mr. Bowers is responsible for the management and overview of over 100 environmental site assessments a year and has participated in more than 1,000 Phase I, Phase II, and remediation projects. Over his 18-year career, Mr. Bowers has personally completed hundreds of Phase I ESAs on a variety of sites, ranging from retail, industrial, residential, agricultural and undeveloped.

Mr. Bowers has acted as project manager for numerous site investigations and remediation projects for petroleum distributors, Brownfield projects, municipalities, and commercial and industrial property owners. He has developed remedial action plans based upon the property owners' objective and hydrogeological conditions. Remedial actions included soil excavation, mechanical soil and groundwater treatment systems, in-situ bioremediation, oxidization, and natural attenuation.

PROJECT EXPERIENCE

PHASE I ENVIRONMENTAL SITE ASSESSMENTS

Norbest Foods – Various Sites, Utah

Managed the completion of Phase I ESAs on 13 individual properties as part of a commercial refinancing portfolio for the property owner. The subject sites varied from vacant land, gasoline/service stations, food-processing facilities, and turkey farms. During the ESA process, numerous RECs were identified associated with leaking aboveground and underground storage tanks, oil spills originating from automotive maintenance on the sites and compressor blow-down. Mr. Bowers managed site soil remediation at three of the 13 sites and achieved no further action status for the releases.

FDIC – Various Sites – Utah

Served as technical reviewer for over 40 Phase I ESAs and Phase IIs. Sites included retail, office, commercial, industrial, proposed residential developments, and vacant properties.

In-N-Out Burgers – Various Sites, Utah, Nevada, California and Texas

As the National Account Manager for In-N-Out Burgers located in California, Mr. Bowers has managed the completion of over 100 Phase I ESAs, Limited Site Investigations, and geotechnical investigations in six western US states.



EDUCATION

*Bachelor of Science,
Environmental Policy, St. Norbert
College, 1998*

CERTIFICATIONS

*40-Hour OSHA Hazardous Wastes
Operations Training, Utah (2000)*

*State of Utah UST Certified
Consultant, Utah CC 195*

*Certified UST Groundwater and
Soil Sampler, Utah GS-1419*

*Nuclear Density Gauge Safety
Training (1998)*

AFFILIATIONS

*Utah Alliance For Economic
Development*

WORK HISTORY

*Terracon Consultants, Inc.
Environmental Dept. Manager,
2006 –Present; Project Manager,
2004 – 2006; Staff Scientist,
2003-2004*

*PSI, Inc., Environmental Project
Manager, 2002-2003*

*Giles Engineering Assoc., Inc.,
Staff Scientist, 1999-2002; CMT
Field Technician, 1998-1999*

TELECOMMUNICATIONS

Over 900 Towers for Telecommunication Firms – Utah, Idaho and Wyoming

Managed the completion of Phase I ESAs, Section 106 and NEPA work for more than 800 cell tower sites for various cellular companies throughout the states of Utah, Idaho, and Wyoming. Clients include AT&T, Verizon Wireless, T-Mobile, Cricket, Sprint, and other telecommunication service companies, such as General Dynamics, Clearwire, Pacific Telecom Service, Overland, and Black & Veatch Company among others.

UST/LUST

Former Roadway Express Facility – Salt Lake City, Utah

Project Manager for the investigation and remediation of the site after a failing leak detection test was reported on a new oil product line that serviced three fuel islands at the trucking terminal. During the investigation, new motor oil was detected above regulatory limits in the soil and groundwater on the site. Terracon prepared an Underground Storage Tank (UST) closure plan and closure notice before abandoning the oil product lines in-place. Soil sampling indicated widespread oil and diesel contamination along the product lines and dispensers. Mr. Bowers prepared a Corrective Action Plan (CAP) to excavate the petroleum-impacted soils. Approximately 720 tons of impacted soils were removed and disposed at a licensed facility. Terracon implemented a quarterly groundwater sampling program and was able to remediate soil and groundwater below regulatory limits and received no further action for the site release.

At the same site, Mr. Bowers managed a Limited Site Investigation in the area of the on-site maintenance building and diesel tank farm that serviced the site and identified oil and diesel constituents above regulatory limits in the soil and groundwater. Terracon developed and completed a pilot test to determine the feasibility of full-scale anaerobic bioremediation using an oil digestant, BioRem 2000®. The pilot test included physical contaminant removal using vacuum-enhanced fluid recovery (VEFR) to remove vapor and dissolved and free-phase volatile organic compounds (VOCs) from the subsurface. Approximately 16,000-gallons of petroleum-impacted water was removed, treated on site with an air sparging system, and discharged under a one-time UPDES permit. Following the VEFR event, Terracon conducted injection events into 44 monitoring / injection wells for a total of three nutrient injections and two BioRem injections over a five-week period. TPH-DRO concentrations were reduced by 54% during the 35 day pilot test. Following the successful completion of the pilot test, Terracon was approved by the State to conduct full-scale remediation at the site. Upon approval from the state, approximately 280 tons of impacted soils were removed from the areas near dispensers. Free product (diesel) was discovered in several monitoring area surrounding the diesel tank farm. Injections were conducted on the site for approximately three years, after which Terracon was able to achieve no further action status for the release.

9th Street Marketplace Shopping Center – Former San Marcos Property, Murray, Utah

The site was a former corner gasoline service station that was abandoned in the late 1960s. A local developer purchased the property with plans to develop the site within 180 days. Terracon conducted a Limited Site Investigation and it was determined that the soil and groundwater at the site were impacted with gasoline, used oil, and diesel constituents above Initial Screening Levels. In addition, trichloroethene (TCE) was detected above EPA National Primary Drinking Water Standards in a groundwater monitoring well on the perimeter of the site. It was later determined that the TCE had migrated on to the site from a nearby dry cleaners. Terracon met with members of the Division of Solid and Hazardous Waste to discuss the chlorinated solvents in the groundwater, and devised a remediation plan to address the impacted soils and groundwater on the site. There was additional collaboration with the Division of Environmental Response and Remediation (DERR) on this remediation approach due to the petroleum hydrocarbons impacts and former USTs on the site. Due to the short time-frame for development, Terracon used a "dig and haul" approach to remediate the site. Approximately 1,150 tons of petroleum-impacted soils were excavated and disposed at ET Technologies Soil Regeneration site for land farming. Upon completion of remediation services, the site received a No Further Action letter from the DERR for the Leaking Underground Storage Tank (LUST) release. The DSHW provided a letter indicating that the TCE contamination appeared to be from an off-site source and no additional sampling was necessary.

Tesoro #40 – South Salt Lake, Utah

A release was discovered following the closure of three USTs in April 2008. Terracon is providing ongoing services for site characterization, vapor intrusion evaluation, groundwater monitoring and remediation. Using a phased site investigation approach, Terracon defined the vertical and lateral extent of impact to subsurface soils and groundwater. The site investigation determined that constituent concentrations exceeding applicable action levels (Tier 1 Screening Levels and Initial Screening Levels) extend from the source area down gradient to adjacent off-site properties. Of particular concern is an adjacent residential apartment building (down gradient from the source area) where elevated gasoline constituent concentrations are present in underlying soils and groundwater. To assess vapor intrusion (VI) potential, Terracon worked closely with DERR representatives (who are using this site as a VI case study) to conduct quarterly rounds of sub-slab soil vapor sampling through the basement floor of both of the affected apartments. This intrusive activity required proactive public relations directly with the affected apartment residents. The vapor analytical results were compared to risk-based screening levels (RBSLs) for indoor air, which Terracon calculated using the procedures in DERR's Guidelines for Utah's Corrective Action Process. The results indicated vapor concentrations below the calculated RBSLs, and therefore are not contributing to excess risk to the apartment residents. Terracon developed a Corrective Action Plan (CAP) including a detailed remedial alternatives evaluation, selection of the preferred remedy, and remedial design. The selected remedy involves in-situ anaerobic bioremediation along with source removal and disposal. The CAP was approved by DERR in 2010 and Terracon directed the removal of impacted soils in the area of the former USTs and installed a network of 30 injection wells on the site and adjoining residential property for the injection of an anaerobic oil digester. To date, Terracon has directed 18 injection events, and benzene concentrations have been reduced by more than 85% since the initiation of corrective action on the site.

Construction Truck and Trailer – Salt Lake City, Utah

Project Manager for the ongoing investigation/remediation project after a diesel UST and new oil AST leaked on the site. Mr. Bowers conducted a Limited Site Investigation and identified TRPH and diesel constituents above regulatory limits in the soil and groundwater of the site. Several of the wells located between the existing shop area and former UST had measurable levels of free product (new oil) in the wells. Terracon directed the excavation of an area approximately 90' x 90' x 8' and 2,442 tons of impacted soil were disposed at a permitted disposal facility. Terracon is currently awaiting the approval of a Corrective Action Plan from the DERR and intends to remediate the remaining "hot spots" of soil and groundwater contamination that could not be excavated due to physical barriers on the site, (existing building and property fence line) with an anaerobic oil digester.

Brent Brown Chevrolet – Provo, Utah

As part of a property transaction, Terracon conducted a subsurface investigation in the service area of the Brent Brown Chevrolet and discovered that several underground hydraulic hoists had leaked and impacted the soil and groundwater of the site. Terracon directed the removal of the leaking hoists and excavated an area approximately 90'x25'x8' and removed the impacted soils for off-site disposal. Once the excavation was complete, approximately 2,000 gallons of free product (hydraulic oil) was removed from the groundwater surface within the excavation with a vacuum truck. Ten injection wells were installed within the impacted area for injections of BioRem 2000® oil digester. Twelve injection events were conducted over a one-year time-frame. Following the injection events, groundwater levels were reported below regulatory cleanup levels and a no further action letter was issued by the Utah Department of Water Quality.

SITE INVESTIGATION**The Scoular Company – Utah**

As part of a property transaction, conducted an extensive subsurface investigation, including the delineation of a trichloroethylene (TCE) groundwater plume that migrated off the grain-handling facility site impacting an adjoining industrial park. The TCE plume is currently listed on the CERCLIS database as the "Ogden Industrial Park Plume." Mr. Bowers is currently providing the client litigation support and document review for additional site remediation efforts conducted by the previous owner's consultant.

The Scouler Company – Southeastern Idaho

Terracon conducted subsurface investigations on four grain-handling facilities in southeastern Idaho. Phase I ESAs previously conducted on the sites indicated the potential of soil and groundwater contamination from carbon tetrachloride that was used at one of the sites and potentially used at the others. Analytical results from the subsurface investigation were compared to the proper State of Utah, Federal and Idaho DEQ Risk Screening Process.

Merit Oil – Kansas, Colorado, and Oklahoma

Involved in a Modified Phase I ESA portfolio, including 2,604 oil and gas production locations, injection and disposal well locations, central tank batteries, and compressor stations in southwest Kansas, southeast Colorado, and northwest Oklahoma. Duties included field reconnaissance, NORM surveys, and reporting.

Associated Foods Stores – Salt Lake City, Utah

Project Manager for remediation efforts of a soil, groundwater, and free-phase product cleanup. The site was previously used as a fleet truck repair and refueling center. Site remediation activities included a pump and treat system, air sparging, free product recovery, and extensive soil excavations.

Richmond American Homes – South Jordan, Utah

Completed numerous limited site investigations to evaluate the presence of lead and arsenic in the on-site soils/fills for more than 250 residential lots within the Kennecott Land Daybreak development. Terracon conducted X-ray fluorescence (XRF) screening measurements on soil/fill samples to identify target samples for laboratory testing.

All Resort Coach, Inc. DBA Lewis Stages – Salt Lake City, Utah

Terracon conducted a Phase I ESA and limited site investigation as part of a property transaction. The limited site investigation revealed the presence of soil and groundwater contamination from existing underground storage tanks (USTs) above regulatory limits. Terracon directed efforts for the removal of three USTs, the contaminated soil removal and the repair of existing USTs to meet State of Utah standards and achieve regulatory closure.

APPENDIX F
DESCRIPTION OF TERMS AND ACRONYMS

Description of Selected General Terms and Acronyms

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

Description of Selected General Terms and Acronyms

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

Description of Selected General Terms and Acronyms

Term/Acronym	Description
MCL	Maximum Contaminant Level. This Safe Drinking Water concept (and also used by many states as a ground water cleanup criteria) refers to the limit on drinking water contamination that determines whether a supplier can deliver water from a specific source without treatment.
MSDS	Material Safety Data Sheets. Written/printed forms prepared by chemical manufacturers, importers and employers which identify the physical and chemical traits of hazardous chemicals under OSHA's Hazard Communication Standard.
NESHAP	National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants.
NFRAP	Facilities where there is "No Further Remedial Action Planned," as more particularly described under the Records Review section of this report.
NOV	Notice of Violation. A notice of violation or similar citation issued to an entity, company or individual by a state or federal regulatory body indicating a violation of applicable rule or regulations has been identified.
NPDES	National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water.
NPL	The NPL is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program.
OSHA	Occupational Safety and Health Administration or Occupational Safety and Health Act
PACM	Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos.
PCB	Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today.
pCi/L	picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials.
PLM	Polarized Light Microscopy (see ACM section of the report, if included in the scope of services)
PST	Petroleum Storage Tank. An AST or UST that contains a petroleum product.
Radon	A radioactive gas resulting from radioactive decay of naturally-occurring radioactive materials in rocks and soils containing uranium, granite, shale, phosphate, and pitchblende. Radon concentrations are measured in picoCuries per Liter of Air. Exposure to elevated levels of radon creates a risk of lung cancer; this risk generally increases as the level of radon and the duration of exposure increases. Outdoors, radon is diluted to such low concentrations that it usually does not present a health concern. However, radon can accumulate in building basements or similar enclosed spaces to levels that can pose a risk to human health. Indoor radon concentrations depend primarily upon the building's construction, design and the concentration of radon in the underlying soil and ground water. The EPA recommended annual average indoor "action level" concentration for residential structures is 4.0 pCi/l.
RCRA	Resource Conservation and Recovery Act. Federal act regulating solid and hazardous wastes from point of generation to time of disposal ("cradle to grave"). 42 U.S.C. 6901 et seq.
RCRA Generators	The RCRA Generators database, maintained by the EPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as either large (LQG), small (SQG), or conditionally exempt (CESQG). LQG produce at least 1000 kg/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste. SQG produce 100-1000 kg/month of non-acutely hazardous waste. CESQG are those that generate less than 100 kg/month of non-acutely hazardous waste.
RCRA CORRACTS/TS Ds	The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials which are undergoing "corrective action". A "corrective action" order is issued when there is a release of hazardous waste or constituents into the environment from a RCRA facility.
RCRA Non-CORRACTS/TS Ds	The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.

Description of Selected General Terms and Acronyms

Term/Acronym	Description
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. <i>De minimis</i> conditions are not recognized environmental conditions.”
SCL	State “CERCLIS” List (see SPL /State Priority List, below).
SPCC	Spill Prevention, Control and Countermeasures. SPCC plans are required under federal law (Clean Water Act and Oil Pollution Act) for any facility storing petroleum in tanks and/or containers of 55-gallons or more that when taken in aggregate exceed 1,320 gallons. SPCC plans are also required for facilities with underground petroleum storage tanks with capacities of over 42,000 gallons. Many states have similar spill prevention programs, which may have additional requirements.
SPL	State Priority List. State list of confirmed sites having contamination in which the state is actively involved in clean up activities or is actively pursuing potentially responsible parties for clean up. Sometimes referred to as a State “CERCLIS” List.
SQG	Small Quantity Generator
SWF/LF	State and/or Tribal database of Solid Waste/Landfill facilities. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.
TPH	Total Petroleum Hydrocarbons
TRI	Toxic Release Inventory. Routine EPA report on releases of toxic chemicals to the environment based upon information submitted by entities subject to reporting under the Emergency Planning and Community Right to Know Act.
TSCA	Toxic Substances Control Act. A federal law regulating manufacture, import, processing and distribution of chemical substances not specifically regulated by other federal laws (such as asbestos, PCBs, lead-based paint and radon). 15 U.S.C 2601 et seq.
USACE	United States Army Corps of Engineers
USC	United States Code
USGS	United States Geological Survey
USNRCS	United States Department of Agriculture-Natural Resource Conservation Service
UST	Underground Storage Tank. Most federal and state regulations, as well as ASTM E1527-13, define this as any tank, incl., underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or more beneath the surface of the ground (i.e., buried).
VCP	State and/or Tribal facilities included as Voluntary Cleanup Program sites.
VOC	Volatile Organic Compound

Description of Selected General Terms and Acronyms

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>