



GeoTek Residential, LLC
4810 South 40th Street Suite 3 Phoenix, AZ 85040
(480) 505-9422 Office (480) 505-9431 Fax

**PHASE I
ENVIRONMENTAL SITE ASSESSMENT**

**SONORAN FOOTHILLS
SOUTHWEST CORNER OF WESD DOVE VALLEY ROAD
AND NORTH PALOMA PARKWAY
PHOENIX, ARIZONA**

December 30, 2013

Project No. 1312-PHR3

Prepared For:

ARIZONA STATE LAND DEPARTMENT

and



TAYLOR MORRISON
9000 East Pima Center Parkway
Scottsdale, Arizona 85258

GEOTEK RESIDENTIAL, LLC

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1.0 EXECUTIVE SUMMARY

GEO TEK RESIDENTIAL, LLC (GEO TEK) has performed a Phase I Environmental Site Assessment (ESA) for the Sonoran Foothills property (the "Site"), located at the southwest corner of West Dove Valley Road and North Paloma Parkway in the City of Phoenix, Maricopa County, Arizona. Our services were conducted in substantial conformance with the scope and limitations of the American Society of Testing and Materials (ASTM) E 1527-13, "*Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*", which is approved to meet the requirements of the federal All Appropriate Inquiries (AAI) standards as set forth in the Code of Federal Regulations, Title 40, Section 312 (40 CFR 312), and GEO TEK Proposal No. P3-0900413-PH, dated November 8, 2013. Any additions or deletions from our scope of services are discussed in the appropriate sections of this assessment.

A representative of GEO TEK conducted a Site reconnaissance on December 3, 2013. The weather was warm with clear skies. The rectangular shaped Site is comprised of one parcel of land, and encompasses approximately 144 acres. The Site was accessed from the north via West Dove Valley Road. The Site is primarily vacant, raw desert land. Several shallow washes transect the Site. No hazardous materials or wastes were observed on the Site. No visual evidence of spills or leaks was observed. No pungent or acrid odors were observed emanating from the Site.

The Site is in an area characterized by residential properties and vacant land. Generally, West Dove Valley Road bounds the Site to the north, beyond which is a residential area and vacant land. West Bronco Butte Trail partially bounds the Site to the south, beyond which is a residential development. Vacant land also borders the Site to the south. North Paloma Parkway bounds the Site on the east, beyond which is a residential area. Residences border the Site on the west.

Based on readily available historic information, the Site appears to have been undeveloped desert land since at least 1986. The vicinity was undeveloped and from at least 1986 until approximately 2003, when grading for the residential developments in the vicinity was observed to the north, south, and west. Grading for the residential development to the east had begun by 2004. No historic recognized environmental conditions were identified from the historic information reviewed.

The Site does not appear on the environmental database report obtained for this assessment. None of the adjacent properties appear on the database report. There are no facilities listed in



the environmental database report within the minimum search distances specified by ASTM E 1527-13.

This Phase I Environmental Site Assessment has not revealed evidence of a recognized environmental condition or environmental concern at the subject Site. No further environmental investigation is necessary at this time.

This executive summary does not contain all the information that is found in the full report. The report should be read in its entirety to obtain a more complete understanding of the information provided and to aid in any decisions made or actions taken based on this information.

2.0 INTRODUCTION

GEO TEK RESIDENTIAL, LLC (GEO TEK) has performed a Phase I Environmental Site Assessment (ESA) for the Sonoran Foothills property (the "Site"), located at the southwest corner of West Dove Valley Road and North Paloma Parkway in the City of Phoenix, Maricopa County, Arizona.

2.1 PURPOSE

The purpose of this Phase I ESA was to identify and evaluate actual and potential environmental conditions involving the subject Site. It was not the purpose of this assessment to determine the degree or extent of contamination, if any, but rather the potential for contamination.

2.2 SCOPE OF WORK

The Phase I ESA is a general characterization of environmental concerns based on reasonably ascertainable information and observations. GEO TEK performed the Phase I ESA in substantial accordance with ASTM E 1527-13. The following services were provided for the assessment:

- A reconnaissance of the Site and surrounding properties was conducted to visually assess current utilization and indications of potential surface contamination. This was accomplished by walking the Site boundaries, and then traversing the Site until the entire Site had been surveyed.
- A reconnaissance of the surrounding area for approximately one-half mile was conducted, without entering the properties, making observations concerning property uses, conditions, and housekeeping.
- A review of the geologic and hydrogeologic settings was conducted using reasonably ascertainable public records and documents.
- An environmental database report was obtained from a data service provider. This database report compiles and locates all known "hazardous waste" facilities within specific minimum search distances as defined by ASTM E 1527-13. If necessary, additional information on identified facilities was gathered by a file review at the appropriate federal, state, local, and/or tribal regulatory agency.

- A review of reasonably ascertainable historical records (including aerial photographs, topographic maps, building records, and city directories) was conducted to assess the historical land utilization and indications of potential contamination or sources of contamination for the Site.
- This report was prepared, which relates the findings of this study and presents our conclusions and recommendations.

Specific items not included in this Scope of Services are water analysis, asbestos containing materials analysis, radon analysis, lead-based paint analysis, lead in drinking water, regulatory compliance, industrial hygiene, health and safety, indoor air quality, high voltage power lines, and other items not within the scope of ASTM E 1527-13.

2.3 SIGNIFICANT ASSUMPTIONS

Specific assumptions by GEOTEK for this assessment include:

- GEOTEK had permission to access the Site grounds;
- The client has provided GEOTEK with available geotechnical or environmental reports for the Site;
- The client has provided GEOTEK with known current or historic uses of hazardous materials at the Site, or with other specialized knowledge of the environmental history of the Site and surrounding area.

2.4 LIMITATIONS AND EXCEPTIONS

GEOTEK conducted a Phase I Environmental Site Assessment in substantial accordance with ASTM E 1527-13 and as authorized by TAYLOR MORRISON. This study does not include sampling of soil, groundwater and/or the debris on-site for environmental testing. This report is intended for the use of TAYLOR MORRISON and the ARIZONA STATE LAND DEPARTMENT, and their immediate assignees. The contents should not be relied upon by any party other than the aforementioned without the express written consent of GEOTEK.

The findings, conclusions, and recommendations made in this report are based on the information that was made available to GEOTEK, in most instances from public records. The information is relevant to the date of our site work and should not be relied on to represent conditions at any later date. The opinions and conclusions expressed herein are based on information obtained during our assessment and on our experience and current standards of technical practice. GEOTEK makes no other warranties, either express or implied, concerning



the completeness of the data furnished to us. GEOTEK cannot be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time our assessment was undertaken. GEOTEK is not responsible, nor liable for work, testing or recommendations performed or provided by others. This Phase I Environmental Site Assessment is not and should not be construed as a warranty or guarantee about the presence or absence of environmental hazards or contaminants, which may affect the subject site. Facts, conditions, and acceptable risk factors change with time; accordingly, this report should be viewed within this context.

Specific limitations to the scope of ASTM E 1527-13 due to contract limitations, availability of resources, and/or encountered Site conditions are discussed in the appropriate section(s) of this report.

2.5 SPECIAL TERMS AND CONDITIONS

This assessment report is presented as fulfilling the standard requirements of most financial institutions, governmental regulatory agencies, ASTM, and generally accepted industry standards and practices. Refer to GEOTEK Proposal No. P3-0900613-PH for complete terms and conditions for this assessment.

2.6 RELIANCE

This assessment has been prepared for the exclusive use, and may be relied upon by, TAYLOR MORRISON, the ARIZONA STATE LAND DEPARTMENT, their successors, and assignees. Third party reliance letters may be issued upon request and upon the payment of the, then current, fee for such letters. All third parties relying on this report, by such reliance, agree to be bound by the General Conditions and Limitations agreed to by TAYLOR MORRISON. No reliance by any party is permitted without such agreement, regardless of the content of the reliance letter itself.

3.0 DESCRIPTION OF SITE AND SURROUNDING AREA

The objective of describing the Site and surrounding area is to document current conditions as observed and to obtain information which would indicate the likelihood of a recognized environmental condition in connection with the Site. A representative of GEOTEK conducted a Site reconnaissance on December 3, 2013. The weather was warm with clear skies. Access to the Site is from the north, via West Dove Valley Road.

3.1 SITE LOCATION AND LEGAL DESCRIPTION

The Site is located at the southwest corner of West Dove Valley Road and North Paloma Parkway in the City of Phoenix, Maricopa County, Arizona. According to the U.S. Geological Survey (USGS) New River Quadrangle topographic map (7.5-minute series), the Site is located in the northeast quarter of Section 13, Township 5 North, Range 2 East, Gila and Salt River Baseline and Meridian (see Figure 1 in Appendix A). The Maricopa County Assessor's Parcel Number (APN) does not exist, as state owned land is exempt from such identifications. The current deed was also not available. The Maricopa County Assessor's Office map is included in Appendix B.

3.2 SITE AND VICINITY GENERAL CHARACTERISTICS

The Site and the immediate vicinity are in an area of vacant desert land and residential development (see Figure 2 in Appendix A).

3.3 CURRENT PROPERTY USE

The Site is currently vacant, desert land.

3.4 SITE IMPROVEMENTS

The Site is currently primarily unimproved desert land (see Figure 2 in Appendix A). Evidence of underground utilities was found along the eastern border of the Site. Photographs of the Site are included in Appendix C.

3.4.1 Hazardous Substances

GEO TEK did not observe hazardous substances or wastes at the Site. No visual evidence of spills or stains was observed. No pungent or acrid odors were observed emanating from the Site.

3.4.2 Storage Tanks

GEO TEK did not observe evidence of underground or above-ground storage tanks (such as vent pipes, fill pipes, regular-shaped depressions, etc.) on the Site.

3.4.3 Poly-Chlorinated Biphenyls (PCBs)

GEO TEK did not observe suspect equipment (transformers, elevators, vehicle lifts, trash compactors, etc.), which may contain PCBs on the Site.

3.4.4 Controlled Substances

GEO TEK consulted the U.S. Drug Enforcement Agency (DEA) website to cross-check the Site address against published facilities subject to DEA enforcement. The Site did not appear on the list of published facilities. A copy of the DEA printout is included in Appendix B.

GEO TEK contacted the Phoenix Police Department to inquire about reported controlled substance manufacture on the Site. The desk clerk ran a computer check, based on the major intersections, and informed us that there were no records of clandestine drug activity at the Site.

GEO TEK did not observe evidence of illegal or controlled substances being used or manufactured at the Site.

3.4.5 Indications of Solid Waste Disposal

GEO TEK observed several small areas of dumping throughout the Site. The trash included general landscaping debris including wood and brush. Windblown trash was also encountered. This is considered to be a *de minimis* concern, and not a recognized environmental condition. Waste disposal for Phoenix is provided by the Waste Management of Arizona.

3.4.6 Utility Supply

GEO TEK observed evidence of electric utility service near the Site. The utility providers for the Phoenix are Arizona Public Service for electricity, Southwest Gas for natural gas, and the City of Phoenix Water Services Department for water and sewer service.

3.4.7 Drainage

Natural drainage at the Site is interpreted to be toward the south-southwest, conforming to the natural topography in the area. Storm water runoff is expected to drain into the storm sewers in the vicinity and the wash channels on the Site. No standing water was observed on the Site on the date of our reconnaissance.

3.4.8 Other Conditions of Concern

No visual indication of water wells, dry wells, septic fields, cesspools, or other conditions of concern that would indicate a recognized environmental condition were observed during the site reconnaissance. No stressed vegetation was observed.

3.4.9 Interviews

GEO TEK interviewed the following individual while performing this assessment:

- Mr. Jeff Deason of TAYLOR MORRISON (in the form of a User Questionnaire).

Information from this interview is incorporated into the appropriate sections of this report.

3.5 CURRENT ADJOINING PROPERTY USE

The Site is in an area characterized by residential properties and vacant land. Generally, West Dove Valley Road bounds the Site to the north, beyond which is a residential area (2117 – 2217 West Apache Rain Road) and vacant land. West Bronco Butte Trail partially bounds the Site to the south, beyond which is a residential development (32029 North 19th Lane, 32027 – 32033 North 20th Lane, and 32116 – 32119 North 23rd Avenue). Vacant land also borders the Site to the south. North Paloma Parkway bounds the Site on the east, beyond which is a residential area (1815 – 1819 West Barnside Trail, 1821 – 1826 West Sleepy Ranch Road, 1835 – 1840 West Sierra Sunset Trail, 1841 – 1845 West Dusty Wren Drive, 1829 West Aloe Vera Drive, 32706 – 32722 North 18th Lane, 1826 West Sienna Bouquet Place, and 1816 – 1821

West Horsetail Trail). Residences border the Site on the west (32321 – 32815 North 23rd Avenue).

4.0 CLIENT PROVIDED INFORMATION

As a form of interview, Mr. Jeff Deason of TAYLOR MORRISON completed a “User Questionnaire” for the Site in accordance with ASTM E 1527-13. A copy of the completed questionnaire is included in Appendix D.

4.1 ENVIRONMENTAL CLEAN-UP LIENS

Mr. Deason indicated that he does not know of any environmental clean-up liens against the Site.

4.2 ACTIVITY AND USE LIMITATIONS

Mr. Deason indicated he does not know of activity use limitations associated with the Site.

4.3 SPECIALIZED KNOWLEDGE

Mr. Deason indicated he has no specialized knowledge of the Site.

4.4 PURCHASE PRICE

Mr. Deason indicated that the price being offered for the Site reflects the fair market price.

4.5 COMMONLY KNOWN INFORMATION

Mr. Deason indicated he does not know of any past use of the Site, specific chemicals which are or were present, chemical spills or releases, or environmental cleanups at the Site.

4.6 OBVIOUS INDICATORS OF CONTAMINATION

Mr. Deason indicated that he is unaware of any obvious indicators that point to the presence or likely presence of contamination at the Site.

5.0 OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION

This section contains other relevant information regarding this assessment in accordance with ASTM.

5.1 INTERVIEWS

As the Site is unoccupied, there were no on-site personnel available for an interview. GEOTEK could not locate a neighbor who would consent to an interview.

5.2 REASON FOR PERFORMING PHASE I ESA

This Phase I ESA was performed by request of TAYLOR MORRISON in order to qualify for one of the Landowner Liability Protections offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2002.

5.3 OTHER USER PROVIDED INFORMATION

GEOTEK was not provided with additional documents by TAYLOR MORRISON.

6.0 PROPERTY PHYSICAL SETTING

Surface and subsurface environments are of interest because they control the movement of water-borne contaminants, which could be transported to and from the subject Site. GEOTEK reviewed information regarding the physical setting of the subject Site and immediately surrounding area.

6.1 REGIONAL GEOLOGY

The Site is located within the Phoenix AMA. The Phoenix AMA is underlain by thick sequence of Cenozoic valley fill deposits, which consist of unconsolidated to semi-consolidated clays, silts, sands, and gravels. Sediments beneath the site area are basin fill deposits and characteristically range from dense sand, gravel and cobbles, to fine-grained silt and clays containing little gravel or coarse sand. Fine-grained sediments are readily transported to the basin center, but coarser constituents typically accumulate around the apron of the mountain range and in the center of prominent river channels. In many areas, deposits of heavily cemented sandy clay to clayey sand (caliche) are encountered having characteristics of soft rock. Part of the Basin and Range physiographic province, the Phoenix AMA consists of gently-sloping alluvial plains separated by predominantly north to northwest trending mountain ranges (ADWR, 1993). Land-surface elevations range from less than 800 feet above mean sea level (MSL) at Gillespie Dam to over 6,000 feet above MSL in the Superstition Mountains. Elevations on the basin floors typically range from 1,000 to 2,500 feet above MSL.

6.2 LOCAL GEOLOGIC SETTING AND TOPOGRAPHY

According to the Arizona Geological Survey, the majority of the Site is situated in an area of Quaternary age (less than 2.5 million years ago) alluvial deposits (AGS 2000). Near surface soils at the subject Site are identified as Ebon very gravelly loam, loams, Gunsight-Cipriano complex, and Pinamt-Trement complex. These soils are described as well drained soils found on alluvial fans and plains. They formed from mixed alluvium (USNRCS, 2008). Copies of the geologic map and soil survey report are included in Appendix B.

The area of the subject Site slopes to the south-southwest at a rate of approximately 63 feet per mile. Based on the USGS New River Quadrangle topographic map, the average elevation of the subject Site is approximately 1,620 feet above mean sea level (see Figure 1, Appendix A).

6.3 VICINITY SURFACE DRAINAGE

Natural drainage at the Site is interpreted to be toward the south-southwest, conforming to the natural topography in the area. Storm water runoff is expected to drain into storm sewers in the vicinity and the washes transecting the Site. No standing water was observed on the Site on the date of our reconnaissance.

According to the Federal Emergency Management Agency (FEMA), the Site is located within Zone X, which is an area outside the 100-year flood plain (Community-Panel No. 04013C-0865L, October 16, 2013). The applicable portions of the FEMA map is included in Appendix B.

6.4 HYDROGEOLOGY

According to the published maps, the Phoenix AMA includes approximately 5,646 square miles of mostly Sonoran Desert. The major urban area, consisting of several incorporated cities, is largely surrounded by land devoted to agriculture, sparse development and open desert. Broad alluvial valleys and low rugged mountains that generally rise abruptly from pediments sloping toward valley floors characterize the natural landscape. The valleys are structural basins filled with thick sedimentary deposits that range from unconsolidated to highly consolidated, and which tend to be good natural storage places for groundwater (ADWR, 1992).

Groundwater flow in the vicinity of the subject property is somewhat complex. The actual gradient flow direction in the general vicinity is likely variable and sometimes influenced by pumping patterns in the surrounding area. According to information obtained from the ADWR website for wells reportedly located near the subject property, depth to water in the area is estimated to be greater than 260 feet below ground surface. According to the published maps, groundwater flows south beneath the Site. A copy of the well log report is included in Appendix B.

7.0 ENVIRONMENTAL REGULATORY RECORDS REVIEW

The records review is conducted to help identify known recognized environmental conditions at the Site and/or on adjacent or nearby properties which may have impacted the subject Site.

7.1 ENVIRONMENTAL DATABASE RECORDS SEARCH

GEOTEK obtained and reviewed an environmental database report of the federal and state environmental records specified by ASTM E 1527-13. The database report was provided by Environmental Data Resources, Inc. (EDR) of Milford, Connecticut. Additionally, orphan or unmappable sites listed by EDR were reviewed for the approximate minimum search distances noted and included in our discussion, if applicable. Refer to Appendix E for a copy of the database report.

ENVIRONMENTAL DATABASE	MINIMUM SEARCH DISTANCE	SITE	ADJACENT	TOTAL LISTED
U.S. Environmental Protection Agency (USEPA) - National Priorities List (NPL), including delisted NPL	1.0 Mile	No	0	0
USEPA - Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS), including NFRAP ⁱ sites	0.5 Mile	No	0	0
USEPA – Resource Conservation and Recovery Act (RCRA), Corrective Action Facilities (CORRACTS)	1.0 Mile	No	0	0
USEPA – RCRA, Transportation, Storage, and Disposal facilities (TSD)	0.5 Mile	No	0	0
USEPA - RCRA Generators	Site and Adjacent	No	0	0
USEPA – Emergency Response Notification System (ERNS)	Site	No	N/A	0
Federal institutional control/engineering control registries	Site	No	N/A	0
Arizona Department of Environmental Quality (ADEQ) – Arizona Superfund Program List (ASPL)	1.0 Mile	No	0	0
ADEQ - Solid Waste Landfills	0.5 Mile	No	0	0
ADEQ – Leaking Underground Storage Tanks (LUST)	0.5 Mile	No	0	0

ⁱ NFRAP = “No Further Remedial Action Planned”

ENVIRONMENTAL DATABASE	MINIMUM	SITE	ADJACENT	TOTAL LISTED
	SEARCH DISTANCE			
ADEQ – Underground Storage Tanks (UST), including historic USTs and Above-Ground Storage Tanks (AST)	Site and Adjacent	No	0	0
State institutional control/engineering control registries	Site	No	N/A	0
Local and/or Tribal databases	Up To 1.0 Mile	No	0	0
Other databases	Up To 0.5 Mile	No	No	0

N/A – Not Applicable

7.2 DISCUSSION OF REGULATORY RECORDS

7.2.1 National Priority List

The National Priority List (NPL) is the EPA's list of confirmed or proposed Superfund sites. Our review of this data includes sites which have been delisted from the NPL. The NPL is searched for a 1.0 mile distance.

The Site does not appear on the NPL. There are no facilities on the NPL within 1.0 mile of the Site.

7.2.2 Comprehensive Environmental Response, Compensation, and Liability Information System List

The Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) is a compilation of sites that the EPA has investigated or is currently investigating for a release or threatened release of hazardous substances. Our review of CERCLIS sites includes No Further Remedial Action Planed (NFRAP) facilities. The CERCLIS list is searched for a 0.5 mile distance.

The Site does not appear on the CERCLIS list. There are no facilities on the CERCLIS list within 0.5 mile of the Site.

7.2.3 Resource Conservation and Recovery Act

The Resource Conservation and Recovery Act compile selective information on facilities which generate, transport, store, treat and or dispose of hazardous waste. RCRA facilities can be listed on one of three databases:

- *Corrective Action Facilities (CORRACTS)* are facilities undergoing corrective action. A corrective action order is issued pursuant to RCRA Section 3008(h) when there has been a release of hazardous waste or constituents into the environment from a RCRA facility. The CORRACTS list is searched for a 1.0 mile distance.

The Site does not appear on the CORRACTS list. There are no facilities on the CORRACTS list within 1.0 mile of the Site.

- *Transportation, Storage, and Disposal Facilities (TSD)* includes facilities that transport, store or dispose of hazardous waste and are not listed on the RCRA Generators list. The TSD is searched for a 0.5 mile distance.

The Site does not appear on the RCRA TSD list. There are no facilities on the RCRA TSD list within 0.5 mile of the Site.

- *Generators List* identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Generators database is a compilation by the EPA of reporting facilities that generate hazardous waste. The RCRA generators list is searched for the Site and adjacent properties.

The Site does not appear on the RCRA Generators list. None of the adjacent properties appear on the RCRA Generators list.

7.2.4 Emergency Response Notification System

The Emergency Response Notification System (ERNS) is a national database used to collect information on reported releases of oil or hazardous substances. The ERNS list is searched for the Site. The Site does not appear on the ERNS list.

7.2.5 Federal Institutional Control/Engineering Control Registries

The USEPA maintains two databases which list sites that have institutional and/or engineering controls in place as part of their operations. These databases are searched for the Site. The Site does not appear on either of these databases.

7.2.6 Arizona Superfund Program List (ASPL)

The Arizona Superfund Program List (ASPL)ⁱⁱ is a list of sites, which may have an actual or potential impact upon the waters of the State. The ASPL consists of the following three elements: Water Quality Assurance Revolving Fund (WQARF) Registry sites, National Priorities List (NPL) sites, and Department of Defense (DOD) sites.

The subject site does not appear on the ASPL. There are no facilities on the ASPL within 1.0 mile of the subject site.

7.2.7 Solid Waste Facilities List

The Arizona Solid Waste Facilities List (SWFL) includes information pertaining to closed and open solid waste facilities operating in the State of Arizona. The SWFL is searched for a 0.5-mile distance.

The subject site does not appear on the SWFL. There are no facilities on the SWFL list within 0.5 mile of the subject property.

7.2.8 Leaking Underground Storage Tanks List

The Arizona Leaking Underground Storage Tanks (LUST) list is a compilation of petroleum storage tank sites that have reported a release. The LUST list is searched for a 0.5 mile distance.

The Site did not appear on the LUST list. There are no facilities on the LUST List within 0.5 mile of the Site.

ⁱⁱ Prior to July 5, 2000, the ADEQ Superfund Programs Section published a list of sites entitled "Arizona CERCLIS Information Data System" (ACIDS). The ACIDS list has been replaced as an active list by the ASPL. The ACIDS list has been archived and is no longer being distributed or updated.

7.2.9 Underground Storage Tanks List

The Arizona Underground Storage Tank (UST) list is a compilation of petroleum storage tank sites that are registered with the state of Arizona. The UST list is searched for the Site and adjacent properties.

The subject Site does not appear on the UST list. None of the adjacent facilities appear on the UST List.

7.2.10 State Institutional Control/Engineering Control Registries

The State of Arizona maintains institutional and engineering control databases or registries. This lists sites with engineering or institutional controls in place. Institutional controls include administrative measures intended to prevent exposure to contaminants remaining on site. Engineering controls include various forms of caps, building foundations, liners, and treatment methods. The State Institutional Control/Engineering Control Registries is searched for 0.5 mile.

The subject site does not appear on the State Institutional Control/Engineering Control Registries. There are no facilities on the State Institutional Control/Engineering Control Registries list within 0.5 mile of the Site.

7.2.11 Tribal Databases

Tribal governments are under the jurisdiction of the USEPA for environmental concerns. Currently, the USEPA Region 9 publishes LUST and UST information for tribes in Arizona, California, Hawaii, Nevada, and the Pacific Territories. The LUST database is searched for 0.5 mile, and the UST database is searched for 0.25 mile.

The Site does not appear on the Tribal LUST or UST databases. No facilities were identified on the Tribal LUST or UST databases within 0.5 mile of the Site.

7.2.12 Other Databases

Occasionally, EDR reports on local or internal databases they maintain or compile. No facilities were reported on these other databases for this assessment.

7.2.13 Unmappable Facilities

GeoTek reviewed the listing of “orphan” or unmappable facilities in the database report. None of the listed facilities appear to be present within the respective search distances stipulated by ASTM I527-13.

7.3 LOCAL REGULATORY AGENCY RECORDS

GEOTEK contacted the Maricopa County Environmental Services Department (ESD), the Phoenix Fire Department (SFD), and the Phoenix Police Department, regarding underground or aboveground storage tanks, hazardous materials permits or business plans, emergency responses, spills, inspections, or other information of an environmental or hazardous nature.

The ESD and SFD reported no records of an environmental nature for the Site.

GEOTEK contacted the Phoenix Police Department to inquire about reported controlled substance manufacture on the Site. The desk clerk ran a computer check, based on the intersection, and informed us that there were no records of clandestine drug activity at the Site.

8.0 VAPOR ENCROACHMENT SCREEN

The purpose of a Vapor Encroachment Screen (VES) is to identify, to the extent feasible, if a vapor encroachment condition exists at the Site.

Utilizing data from the environmental database report, it was determined that there are no current or historic auto stations, gas stations, or cleaners located up-gradient or within 500 feet of the Site. Therefore it was determined that a Tier I Vapor Encroachment Screen was not necessary for the Site.

9.0 SITE AND SURROUNDING AREA HISTORY

In order to construct the history of the Site and the surrounding area, GEOTEK reviewed reasonably ascertainable public documents, including aerial photographs, topographic maps, building records, city directories, fire insurance maps, and county assessor history records.

9.1 HISTORICAL SITE USAGE

9.1.1 Aerial Photograph Review

GEOTEK reviewed aerial photographs dated 1986, 1993, 2002, 2003, 2004, 2009, and 2013.

The 1986 aerial photograph shows the Site to be undeveloped desert land. Wash channels were depicted transecting the Site.

The 1993, 2002, 2003, 2004, 2009, and 2013 aerial photographs show no significant change to the Site from the 1986 photograph. The 2013 aerial photograph is presented as Figure 3 in Appendix A.

9.1.2 Building Department Records

GEOTEK requested available files for the Site at the Phoenix Building Safety Division (BSD) to gain information regarding historical property usage.

The BSD indicated that, as there is no address associated with the Site, they have no records on file.

9.1.3 Chain of Title

GEOTEK has not received, nor was authorized to obtain Chain-of-Title documents as part of this assessment.

9.1.4 City Directory Review

GEOTEK reviewed select city directories at the Burton Barr Phoenix Public Library. City directories from 2003, 2006, and 2010 were reviewed. As there is no street address assigned to the Site, there were no listings for the Site in these directories.

9.1.5 Recorder's Information

GEO TEK visited the Maricopa County Recorder's Office to review the deed for the Site. As there is no official parcel number or address for the Site, there was no deed available. A counter representative indicated that state lands typically are exempt from filing deeds and taxes, and therefore it was not unusual for there to be no records.

9.1.6 Sanborn Map Review

Sanborn Fire Insurance Maps for the parcel were requested from EDR-Sanborn, which owns and maintains the largest and most complete collection of the maps. No coverage for the Site was available. The Sanborn Map Report is included in Appendix B.

9.1.7 Topographic Map Review

GEO TEK reviewed the USGS New River Quadrangle (7.5-minute series) topographic map dated 1964 (photorevised 1981).

The Site was shown as vacant land on the topographic map.

9.2 HISTORICAL IMMEDIATELY SURROUNDING PROPERTY USAGE

9.2.1 Aerial Photograph Review

GEO TEK reviewed aerial photographs dated 1986, 1993, 2002, 2003, 2004, 2009, and 2013.

The 1986 aerial photograph shows the vicinity to be undeveloped desert land with some dirt trails in the area.

The 1993 and 2002 aerial photographs show no significant changes in the vicinity from the 1986 photograph.

The 2003 aerial photograph shows grading activities to the north, south, and west.

The 2004 aerial photograph shows grading activities to the east, and some road construction to the south and west.

The 2009 aerial photograph shows residential developments to the north, south, east and west.

The 2013 aerial photograph show no significant changes from the 2009 photograph. The 2013 aerial photograph is presented as Figure 3 in Appendix A.

9.2.2 City Directories

GEOtek reviewed select city directories at the Burton Barr Phoenix Public Library. City directories from 2003, 2006, and 2010 were reviewed. The results are tabulated as follows:

YEAR	PUBLISHER	ADDRESS(ES)	LISTING
2003	Cole	North 2117–2217 W. Apache Rain	Street not listed
		South 32029 North 19 th Lane	Address not listed
		32027–32033 N. 20 th Lane	Addresses not listed
		32116–32119 N. 23 rd Avenue	Addresses not listed
		East 1815–1819 W. Barnside Trail	Street not listed
		1821–1826 W. Sleepy Ranch	Street not listed
		1835–1840 W. Sierra Sunset	Street not listed
		1841–1845 W. Dusty Wren	Street not listed
		1829 West Aloe Vera Drive	Street not listed
		32706–32722 North 18 th Lane	Addresses not listed
1826 W. Sienna Bouquet Place	Street not listed		
1816–1821 W. Horsetail Trail	Street not listed		
West 32321–32815 North 23 rd Ave.	Addresses not listed		

YEAR	PUBLISHER	ADDRESS(ES)	LISTING
2006	Cole	North 2117–2217 W. Apache Rain	Residential listings
		South 32029 North 19 th Lane	Address not listed
		32027–32033 N. 20 th Lane	Residential listings
		32116–32119 N. 23 rd Avenue	Residential listings
		East 1815–1819 W. Barnside Trail	Street not listed
		1821–1826 W. Sleepy Ranch	Street not listed
		1835–1840 W. Sierra Sunset	Street not listed
		1841–1845 W. Dusty Wren	Street not listed
		1829 West Aloe Vera Drive	Street not listed
		32706–32722 North 18 th Lane	Addresses not listed
1826 W. Sienna Bouquet Place	Street not listed		
1816–1821 W. Horsetail Trail	Street not listed		
West 32321–32815 North 23 rd Ave.	Residential listings		
2010	Cole	North 2117–2217 W. Apache Rain	Residential listings
		South 32029 North 19 th Lane	Residential listing
		32027–32033 N. 20 th Lane	Residential listings
		32116–32119 N. 23 rd Avenue	Residential listings
		East 1815–1819 W. Barnside Trail	Residential listings
		1821–1826 W. Sleepy Ranch	Residential listings
		1835–1840 W. Sierra Sunset	Residential listings
		1841–1845 W. Dusty Wren	Residential listings
		1829 West Aloe Vera Drive	Residential listing
		32706–32722 North 18 th Lane	Residential listings
1826 W. Sienna Bouquet Place	Residential listing		
1816–1821 W. Horsetail Trail	Residential listings		
West 32321–32815 North 23 rd Ave.	Residential listings		

No listings that would indicate an environmental condition or concern were found.

9.2.3 Sanborn Map Review

Sanborn Fire Insurance Maps for the parcel were requested from EDR-Sanborn, which owns and maintains the largest and most complete collection of the maps. According to EDR, no



coverage was available for the property; therefore it is not likely that coverage would be available for the adjoining properties.

9.2.4 Topographic Map Review

GEO TEK reviewed the USGS New River Quadrangle (7.5-minute series) topographic map dated 1964 (photorevised 1981).

The vicinity was generally depicted as vacant on the map.

9.3 HISTORICAL USE SUMMARY

Based on readily available historic information, the Site appears to have been undeveloped desert land since at least 1986. The vicinity was undeveloped and from at least 1986 until approximately 2003, when grading for the residential developments in the vicinity was observed to the north, south, and west. Grading for the residential development to the east had begun by 2004. No historic recognized environmental conditions were identified from the historic information reviewed.

No historic information was reasonably ascertainable prior to 1964. This represents data failure according to ASTM E 1527-13. Data gaps from 1964 to 1981, 1986 to 1993, and 1993 to 2002 are due to the limited resources reasonably ascertainable in the local area. However, it is our opinion that additional historic information, if it were to become available, is not likely to change the conclusions or recommendations of this assessment.

10.0 SIGNIFICANT DATA GAPS

No significant data gaps were discovered while performing this Phase I Environmental Site Assessment.

Minor data gaps include gaps in the historic records from 1964 to 1981, 1986 to 1993, and 1993 to 2002. However, it is our opinion that additional information, if it were to become available, is not likely to change the conclusions or recommendations of this assessment.

11.0 CONCLUSIONS AND RECOMMENDATIONS

GEOTEK has performed a Phase I Environmental Site Assessment (ESA) for the subject Site in substantial conformance with the scope and limitations of ASTM E 1527-13 and GEOTEK Proposal No. P3-0900413-PH, dated November 8, 2013.

This Phase I Environmental Site Assessment has not revealed evidence of a recognized environmental condition at the subject Site. No further environmental investigation is necessary at this time.

12.0 CERTIFICATIONS

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject Site. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

The qualifications of the Project Team are included in Appendix F.

We appreciate this opportunity to be of service. If you have any questions, or if we can be of further service, please contact us at (702) 897-1424.

Sincerely,

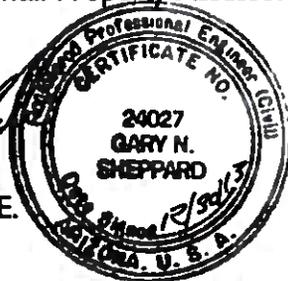
GEO TEK RESIDENTIAL, LLC



J. Michael Batten, CEM, REPA
Environmental Services Manager
Registered Environmental Property Assessor No. 113162
(Expires 06/15/14)



Gary N. Sheppard, P.E.
Senior Engineer



EXPIRES
6/30/16

1312-PHR3-ESA-Report-Taylor Morrison-Sonoran Foothills-JMB-122313

Visit us at www.geotekusa.com



13.0 REFERENCES

ARIZONA, STATE OF

- ◆ Arizona Geological Survey
Geologic Map of Arizona, 2000
- ◆ Environmental Quality, Department of
Inquiry
- ◆ Water Resources, Department of
Inquiry

BURTON BARR PHOENIX PUBLIC LIBRARY

- ◆ City directories dated 1977, 1982, 1987, 1992, 1997, 2003, 2006, and 2010

ENVIRONMENTAL DATA RESOURCES, INC.

- ◆ Radius Map, Inquiry No. 3790459.9s, November 19, 2013
- ◆ Sanborn Map Report, Inquiry No. 3790459.10, November 19, 2013

GOOGLE EARTH

- ◆ Aerial photographs dated 1997, 2004, 2009, 2012, and 2013

MARICOPA COUNTY

- ◆ Assessor
Parcel Map
- ◆ Environmental Services Department
Inquiry
- ◆ Recorder
Inquiry

NATIONAL ENVIRONMENTAL TITLE RESEARCH

- ◆ Aerial photographs dated 1957, 1970, 1978, 1986, 1993, 2002, and 2007
(www.historicaerials.com)

PHOENIX, CITY OF

- ◆ Building Safety Division
Records inquiry
- ◆ Fire Department
Records inquiry

- ◆ Police Department
Records inquiry

TAYLOR MORRISON

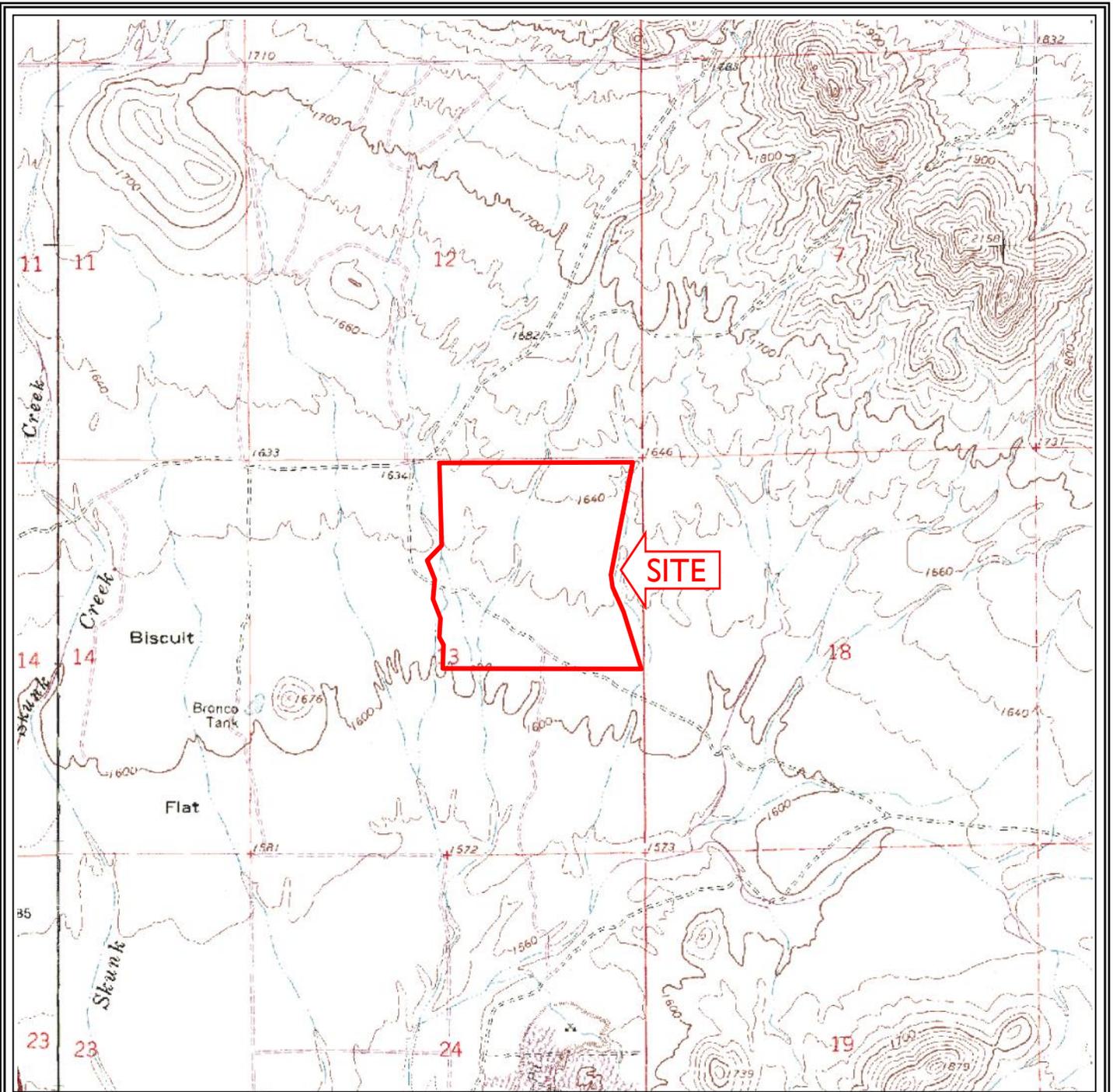
- ◆ User Questionnaire prepared by Ms. Jeff Deason

U.S. GOVERNMENT

- ◆ Drug Enforcement Agency
Records inquiry (www.dea.gov/seizures)
- ◆ Federal Emergency Management Agency (FEMA)
Flood Insurance Rate Map, Community-Panel Number 04013C-0865L, dated October 16, 2013
- ◆ Geological Survey
New River Quadrangle, 7.5-Minute Series Topographic Map, 1964 (photorevised 1981)
- ◆ Natural Resources Conservation Service (formerly Soil Conservation Service)
“Soil Survey for Maricopa County, Arizona, Central Part”, 2008 and aerial photograph dated 2010.

APPENDIX A

FIGURES



Source: USGS New River SE Quadrangle, 7.5-Minute Series, 1981
 Scale: As Shown

Scale = 1 mile



GEOTECHNICAL | ENVIRONMENTAL | MATERIALS

4810 South 40th Street, Suite 3, Phoenix, Arizona 85040
 (480) 505-9431 (phone) / (480) 505-9422 (FAX)

FIGURE I
SITE LOCATION MAP
 SONORAN FOOTHILLS
 SWC W. DOVE VALLEY RD. AND N. PALOMA PKWY.
 PHOENIX, ARIZONA
 Prepared for: TAYLOR MORRISON

Project No.:
1312-PHR3

Report Date:
12/30/13

Drawn By:
JMB



Source: GoogleEarth, 2013
 Scale: As Shown

FIGURE 3
AERIAL PHOTOGRAPH
 SONORAN FOOTHILLS
 SWC W. DOVE VALLEY RD. AND N. PALOMA PKWY.
 PHOENIX, ARIZONA
 Prepared for: TAYLOR MORRISON



GEOTECHNICAL | ENVIRONMENTAL | MATERIALS

4810 South 40th Street, Suite 3, Phoenix, Arizona 85040
 (480) 505-9431 (phone) / (480) 505-9422 (FAX)

Project No.:

1312-PHR3

Report Date:

12/30/13

Drawn By:

JMB

APPENDIX B

SUPPORTING DOCUMENTS

National Clandestine Laboratory Register - Arizona

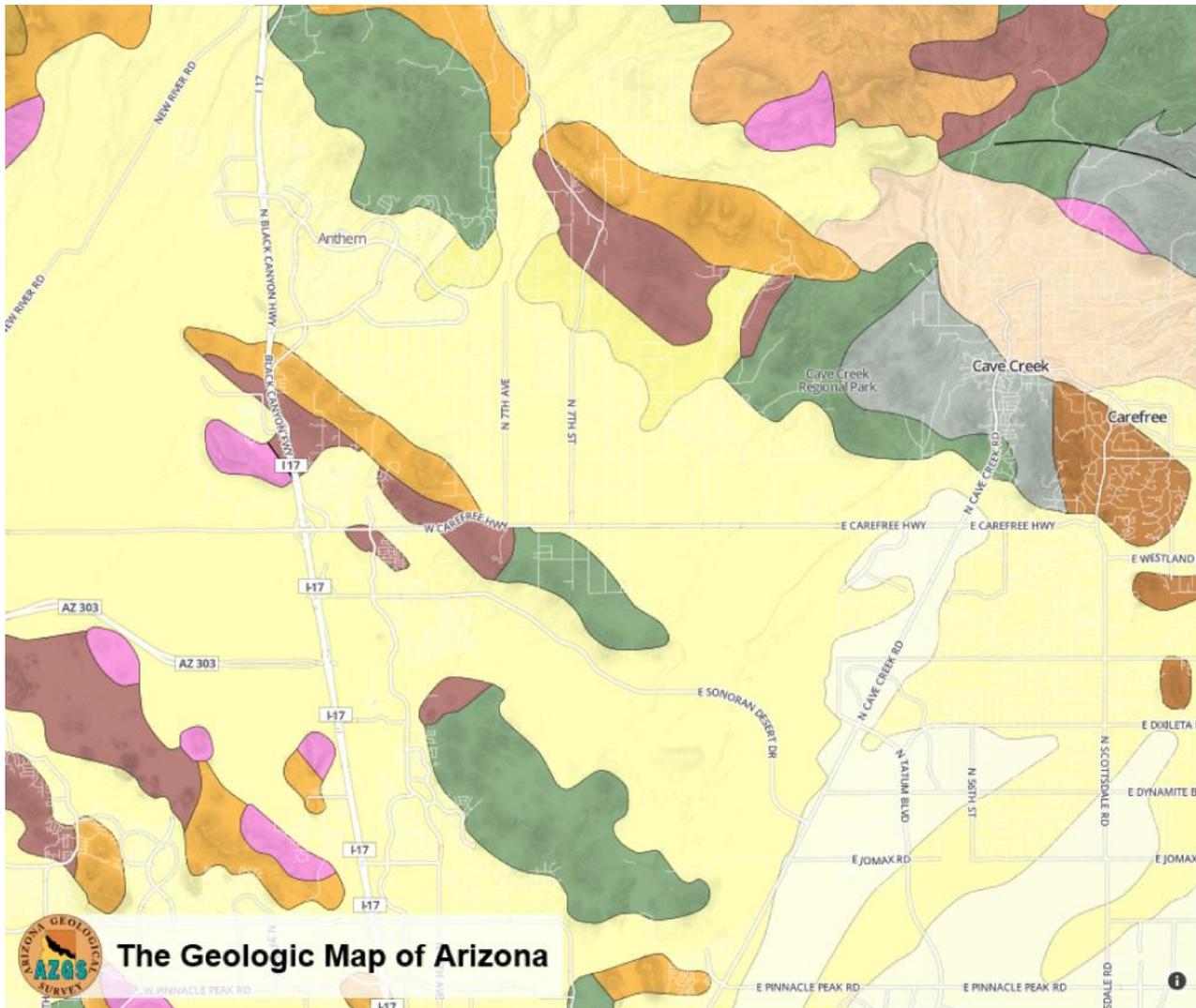
COUNTY	CITY	ADDRESS	DATE
COCHISE	BENSON	680 4TH ST B	2/27/2004
COCHISE	WILLCOX	2201 WEST KNAGGE LANE	12/14/2007
COCONINO	FLAGSTAFF	7400 PONY TRL	7/13/2004
MARICOPA	APACHE JUNCTION	1901 GRAND N DR	3/8/2004
MARICOPA	APACHE JUNCTION	5516 5TH E AVE	8/5/2004
MARICOPA	AVONDALE	10812 MONTE VISTA W RD	3/18/2004
MARICOPA	AVONDALE	3636 106TH N DR	12/6/2004
MARICOPA	BUCKEYE	19325 (b) ROOSEVELT W	8/10/2004
MARICOPA	BUCKEYE	7243 PERRYVILLE S	7/21/2004
MARICOPA	CAVE CREEK	29443 60TH N ST	4/29/2004
MARICOPA	CHANDLER	25 OAKLAND W ST 1	4/2/2004
MARICOPA	CHANDLER	310 ALAMO W DR	1/17/2004
MARICOPA	CHANDLER	565 ASPEN DR	9/17/2004
MARICOPA	CHANDLER	713 LAREDO W	7/26/2004
MARICOPA	EL MIRAGE	12234 LARKSPUR W RD	2/12/2004
MARICOPA	GILBERT	1507 OWL S ST	3/1/2006
MARICOPA	GLENDALE	12727 WEST GLENDALE AVENUE	6/27/2007
MARICOPA	GLENDALE	18446 75 N AVE	8/10/2004
MARICOPA	GLENDALE	5133 WEST VOGEL AVENUE	5/4/2006
MARICOPA	GLENDALE	5717 BLUEFIELD W AVE	4/15/2004
MARICOPA	GLENDALE	5745 MARYLAND W AVE 46	9/12/2004
MARICOPA	GLENDALE	5751 WEST ALTADENA AVENUE	2/21/2008
MARICOPA	GLENDALE	6201 WEST OLIVE AVENUE	5/3/2006
MARICOPA	GLENDALE	6991 WEST KEIM DRIVE	5/4/2006
MARICOPA	GLENDALE	7405 KRALL W SR	3/15/2004
MARICOPA	GLENDALE	8930 61ST N AVE 5	1/20/2005
MARICOPA	GOODYEAR	15912 MONROE W ST	12/16/2004
MARICOPA	GOODYEAR	1701 PALO VERDE N 12	12/8/2004
MARICOPA	HIGLEY	17108 EAST KNOX ROAD	7/26/2006
MARICOPA	LAVEEN	4249 ESTRELLA W DR	6/7/2004
MARICOPA	MARICOPA VILLAGE	33220 SOUTH 75TH AVENUE	11/28/2005
MARICOPA	MESA	10539 MERCURY E DR	10/7/2004
MARICOPA	MESA	1800 EAST COVINA	3/9/2007
MARICOPA	MESA	2912 MEKELLIPS E RD 16	5/14/2004
MARICOPA	MESA	335 NORTH HAWES ROAD	6/16/2006
MARICOPA	MESA	542 99TH N ST	8/27/2004
MARICOPA	MESA	550 MCKELLIPS E 1018	11/1/2004
MARICOPA	MESA	645 COUNTRY CLUB N ST 195	3/3/2004
MARICOPA	MESA	763 8TH E AVE 3	1/19/2006
MARICOPA	MESA	922 SOUTH LONGMORE 168	6/15/2006
MARICOPA	MORRISTOWN	26802 193RD N AVE	7/14/2004
MARICOPA	MORRISTOWN	27622 204TH N AVE	7/14/2004
MARICOPA	MORRISTOWN	28944 HWY 60 HWY	12/13/2004
MARICOPA	MORRISTOWN	33009 215TH N AVE AVE	7/14/2004
MARICOPA	PEORIA	2333 GLENROSA W AVE 3B	4/26/2004
MARICOPA	PEORIA	7436 HATCHER W AVE	11/16/2004
MARICOPA	PEORIA	8643 LOCKLAND W CT	4/26/2004
MARICOPA	PHOENIX	1021 61ST N ST	10/19/2004
MARICOPA	PHOENIX	1106 WEST BELL ROAD 1188	5/5/2006
MARICOPA	PHOENIX	12008 36 N PL	8/31/2005
MARICOPA	PHOENIX	1530 50TH N AVE 303	8/12/2004

National Clandestine Laboratory Register - Arizona

COUNTY	CITY	ADDRESS	DATE
MARICOPA	PHOENIX	1550 THUNDERBIRD E 3081	11/23/2004
MARICOPA	PHOENIX	1633 WEST BRILES STREET	1/8/2007
MARICOPA	PHOENIX	1801 EAST HUBBELL STREET	1/10/2008
MARICOPA	PHOENIX	1820 72ND N LN	10/5/2004
MARICOPA	PHOENIX	1922 41ST N LN	9/23/2004
MARICOPA	PHOENIX	19602 NORTH 32ST STREET 38	6/5/2007
MARICOPA	PHOENIX	20049 24TH N WAY F	6/8/2004
MARICOPA	PHOENIX	2038 17 N AVE	7/12/2005
MARICOPA	PHOENIX	2216 65TH N DR	11/2/2005
MARICOPA	PHOENIX	2324 BEVERLY E LN	10/22/2004
MARICOPA	PHOENIX	2330 BELL W RD	2/2/2005
MARICOPA	PHOENIX	2828 AUGUSTA W A	12/2/2004
MARICOPA	PHOENIX	3007 NORTH 46TH DRIVE	7/11/2006
MARICOPA	PHOENIX	3030 NORTH 14TH STREET 117	5/1/2006
MARICOPA	PHOENIX	3425 24TH N LN	4/28/2004
MARICOPA	PHOENIX	3429 36TH N ST	3/25/2005
MARICOPA	PHOENIX	3614 17TH S ST	3/29/2005
MARICOPA	PHOENIX	3636 VERDE E LN	10/11/2004
MARICOPA	PHOENIX	4022 SIERRA W ST	7/7/2005
MARICOPA	PHOENIX	4109 7TH N ST	4/11/2004
MARICOPA	PHOENIX	4245 B NORTH 10TH STREET	7/5/2006
MARICOPA	PHOENIX	4245 NORTH 10TH STREET	7/14/2006
MARICOPA	PHOENIX	4601 SOUTH 2ND STREET	1/13/2004
MARICOPA	PHOENIX	5326 104TH N AVE	3/22/2005
MARICOPA	PHOENIX	601 EAST PALO VERDE DRIVE 8	1/10/2008
MARICOPA	PHOENIX	6101 35TH N DR	5/21/2004
MARICOPA	PHOENIX	6437 WEST ROOSEVELT STREET	4/18/2008
MARICOPA	PHOENIX	6734 24TH N DR	1/6/2005
MARICOPA	PHOENIX	6824 23RD N AVE 4	1/26/2004
MARICOPA	PHOENIX	6849 LEWIS W AVE	8/25/2004
MARICOPA	PHOENIX	7006 WEST LEWIS AVENUE	5/3/2006
MARICOPA	PHOENIX	7632 7TH N AVE	5/11/2004
MARICOPA	PHOENIX	808 CINABAR E	7/23/2004
MARICOPA	PHOENIX	8435 ALMERIA W RD	1/13/2006
MARICOPA	SCOTTSDALE	1217 78TH N ST	1/20/2004
MARICOPA	TEMPE	1700 DON CARLOS E AVE 116	2/15/2004
MARICOPA	TEMPE	1854 EAST YALE	5/29/2007
MARICOPA	TEMPE	2039 EAST BROADWAY ROAD 172	7/6/2006
MARICOPA	TEMPE	2313 EAST BALBOA DRIVE	9/15/2008
MARICOPA	TEMPE	332 BROADMOR E	3/19/2004
MARICOPA	TOLLESON	605 95TH CIRKLE N	1/8/2004
MARICOPA	TONOPAH	14706 124TH N LN	3/16/2006
MARICOPA	TONOPAH	211TH AVE / BETHANY HOME RD	3/2/2005
MARICOPA	TONOPAH	5735 411TH N AVE	3/15/2006
MARICOPA	WITTMANN	21529 HOVE 1 E	12/13/2004
MARICOPA	WITTMANN	26835 195TII N AVE	6/18/2004
MARICOPA	WITTMANN	27641 204TH N WAY	3/15/2004
MOHAVE	BULLHEAD CITY	1058 BASELINE RD	9/24/2004
MOHAVE	BULLHEAD CITY	1059 ROSEBUD	8/20/2004
MOHAVE	BULLHEAD CITY	125 LONG AVENUE 309	10/7/2004
MOHAVE	BULLHEAD CITY	1611 HAVASUPAI DR 13	11/6/2004

National Clandestine Laboratory Register - Arizona

COUNTY	CITY	ADDRESS	DATE
MOHAVE	BULLHEAD CITY	1807 FOREST DRIVE	12/1/2006
MOHAVE	BULLHEAD CITY	2220 RANCHO COLORADO 311	7/22/2004
MOHAVE	KINGMAN	3614 RYAN AVE	8/19/2005
MOHAVE	LAKE HAVASU CITY	3193 ORO GRANDE BOULEVARD	4/17/2006
NAVAJO	HOLBROOK	419 1/2 BUFFALO W ST A	10/15/2004
NAVAJO	LAKESIDE	3108 GREENLEAF DRIVE	1/9/2007
NAVAJO	WINSLOW	520 WEST BRISMON STREET	5/17/2009
PIMA	TUCSON	1417 ALLEN E RD	7/22/2004
PIMA	TUCSON	16311 WEST HONEYSUCKLE VIEW LANE	9/8/2006
PIMA	TUCSON	2123 EDISON TERRANCE N	11/13/2004
PIMA	TUCSON	2709 DRACHMAN E	8/11/2004
PIMA	TUCSON	2724 EAST 8TH STREET	5/20/2009
PIMA	TUCSON	3201 EAST 2D	7/13/2010
PIMA	TUCSON	3407 GLENN E ST	4/28/2005
PIMA	TUCSON	3960 PINTO E LN	10/11/2005
PIMA	TUCSON	437 EAST NAVAJO STREET	6/30/2007
PIMA	TUCSON	5840 22ND E ST	4/26/2005
PIMA	TUCSON	6255 SOUTH TRAVISGANT AVENUE	4/15/2010
PIMA	TUCSON	6832 SOUTH NOGALES HIGHWAY 19B	4/30/2007
PIMA	TUCSON	923 SWAN N RD B	9/20/2004
PIMA	TUCSON	9632 EAST STELLA ROAD	6/8/2011
PINAL	APACHE JUNCTION	1460 SOUTH DENIZA	10/5/2006
PINAL	APACHE JUNCTION	292 PALO VERDE N DR 5	5/26/2004
PINAL	APACHE JUNCTION	4326 DESERT VIEW N DR	11/5/2004
PINAL	APACHE JUNCTION	4632 MAIN N DR	8/26/2004
PINAL	APACHE JUNCTION	917 KANIKSU W	5/16/2004
PINAL	APACHE JUNCTION	980 IRONWOOD N DR #50	10/21/2004
PINAL	APACHE JUNCTION	9841 EAST LA PALMA AVENUE 4	3/24/2004
PINAL	CASA GRANDE	406 PASCO DE PAULA E ST	5/17/2004
PINAL	MARICOPA	2839 KATHLEEN E RD 103	9/1/2004
YAVAPAI	PRESCOTT	1205 SANDRETTO DRIVE	8/14/2006
YAVAPAI	PRESCOTT VALLEY	8572 TRACY DR	5/11/2004
YUMA	WELLTON	28501 SAN FRANCISCO AVE	4/11/2004



Qm

Late And Middle Pleistocene Surficial Deposits (10-750 ka)

Unconsolidated to weakly consolidated alluvial fan, terrace, and basin-floor deposits with moderate to strong soil development. Fan and terrace deposits are primarily poorly sorted, moderately bedded gravel and sand, and basin-floor deposits are primarily sand, silt, and clay.

Qo

Early Pleistocene to Latest Pliocene Surficial Deposits (0.75-3 Ma)

Coarse relict alluvial fan deposits that form rounded ridges or flat, isolated surfaces that are moderately to deeply incised by streams. These deposits are generally topographically high and have undergone substantial erosion. Deposits are moderately to strongly consolidated, and commonly contain coarser grained sediment than younger deposits in the same area.

QTs

Early Pleistocene to Late Miocene Basin Deposits (0.75-10 Ma)

Poorly sorted, variably consolidated gravel and sand that range widely in age. These sediments are generally light gray or tan. This unit is generally mapped in areas of deep late Cenozoic stream incision and landscape degradation where this



United States
Department of
Agriculture



NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Aguila-Carefree Area, Arizona, Parts of Maricopa and Pinal Counties

SONORAN FOOTHILLS



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://soils.usda.gov/sqi/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<http://offices.sc.egov.usda.gov/locator/app?agency=nracs>) or your NRCS State Soil Scientist (http://soils.usda.gov/contact/state_offices/).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Soil Data Mart Web site or the NRCS Web Soil Survey. The Soil Data Mart is the data storage site for the official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the

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individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

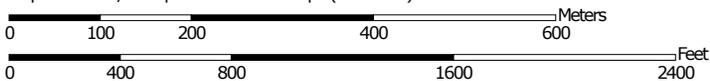
Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map



Map Scale: 1:8,250 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 12N WGS84

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Aguila-Carefree Area, Arizona, Parts of Maricopa and Pinal Counties
 Survey Area Data: Version 7, Aug 27, 2008

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 1, 2010—Nov 27, 2010

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Aguila-Carefree Area, Arizona, Parts of Maricopa and Pinal Counties (AZ645)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
12	Carefree cobbly clay loam, 1 to 8 percent slopes	17.6	7.1%
44	Ebon very gravelly loam, 1 to 8 percent slopes	146.4	58.9%
68	Gunsight-Cipriano complex, 1 to 7 percent slopes	50.9	20.5%
98	Pinamt-Tremant complex, 1 to 10 percent slopes	33.8	13.6%
Totals for Area of Interest		248.7	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic

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classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Aguila-Carefree Area, Arizona, Parts of Maricopa and Pinal Counties

12—Carefree cobbly clay loam, 1 to 8 percent slopes

Map Unit Setting

Elevation: 1,200 to 2,200 feet

Mean annual precipitation: 7 to 10 inches

Mean annual air temperature: 70 to 73 degrees F

Frost-free period: 250 to 300 days

Map Unit Composition

Carefree and similar soils: 100 percent

Description of Carefree

Setting

Landform: Fan terraces

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Mixed alluvium

Properties and qualities

Slope: 1 to 8 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 30 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 4.0 mmhos/cm)

Available water capacity: Moderate (about 7.5 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: Clayey Upland 7-10" p.z. (R040XB204AZ)

Typical profile

0 to 1 inches: Cobbly clay loam

1 to 50 inches: Clay

50 to 60 inches: Very cobbly clay

44—Ebon very gravelly loam, 1 to 8 percent slopes

Map Unit Setting

Elevation: 1,200 to 2,200 feet

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Mean annual precipitation: 7 to 10 inches
Mean annual air temperature: 70 to 73 degrees F
Frost-free period: 250 to 300 days

Map Unit Composition

Ebon and similar soils: 100 percent

Description of Ebon

Setting

Landform: Fan terraces
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Mixed alluvium

Properties and qualities

Slope: 1 to 8 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Low (about 4.7 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 7s
Hydrologic Soil Group: C
Ecological site: Clay Loam Upland 7-10" p.z. (R040XB205AZ)

Typical profile

0 to 1 inches: Very gravelly loam
1 to 43 inches: Very gravelly sandy clay
43 to 60 inches: Gravelly loamy sand

68—Gunsight-Cipriano complex, 1 to 7 percent slopes

Map Unit Setting

Elevation: 1,400 to 2,200 feet
Mean annual precipitation: 7 to 10 inches
Mean annual air temperature: 70 to 73 degrees F
Frost-free period: 250 to 300 days

Map Unit Composition

Gunsight and similar soils: 45 percent
Cipriano and similar soils: 40 percent

Description of Gunsight

Setting

Landform: Fan terraces
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Mixed alluvium

Properties and qualities

Slope: 1 to 7 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 13 percent
Maximum salinity: Nonsaline to slightly saline (2.0 to 8.0 mmhos/cm)
Available water capacity: Low (about 4.8 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 7s
Hydrologic Soil Group: B
Ecological site: Limy Upland 7-10" p.z. Deep (R040XB208AZ)
Other vegetative classification: Limy Upland 7-10" p.z. (040XB210AZ)

Typical profile

0 to 1 inches: Very gravelly sandy loam
1 to 60 inches: Very gravelly sandy loam

Description of Cipriano

Setting

Landform: Fan terraces
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Mixed alluvium

Properties and qualities

Slope: 1 to 7 percent
Depth to restrictive feature: 4 to 20 inches to duripan
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to low (0.00 to 0.01 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Very low (about 0.4 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: Limy Upland 7-10" p.z. (R040XB210AZ)

Other vegetative classification: Limy Upland 7-10" p.z. (040XB210AZ)

Typical profile

0 to 6 inches: Very gravelly loam

6 to 60 inches: Cemented material

98—Pinamt-Tremant complex, 1 to 10 percent slopes

Map Unit Setting

Elevation: 1,200 to 2,200 feet

Mean annual precipitation: 7 to 10 inches

Mean annual air temperature: 70 to 73 degrees F

Frost-free period: 250 to 300 days

Map Unit Composition

Pinamt and similar soils: 45 percent

Tremant and similar soils: 35 percent

Description of Pinamt

Setting

Landform: Fan terraces

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Mixed alluvium

Properties and qualities

Slope: 1 to 10 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 30 percent

Gypsum, maximum content: 4 percent

Maximum salinity: Very slightly saline to moderately saline (4.0 to 16.0 mmhos/cm)

Sodium adsorption ratio, maximum: 30.0

Available water capacity: Low (about 4.2 inches)

Interpretive groups

Farmland classification: Not prime farmland

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Land capability (nonirrigated): 7s

Hydrologic Soil Group: B

Ecological site: Limy Upland 7-10" p.z. Deep (R040XB208AZ)

Typical profile

0 to 1 inches: Extremely gravelly sandy loam

1 to 28 inches: Very gravelly sandy clay loam

28 to 60 inches: Extremely gravelly sandy loam

Description of Tremant

Setting

Landform: Fan terraces

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Mixed alluvium

Properties and qualities

Slope: 1 to 10 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 35 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 4.0 mmhos/cm)

Available water capacity: Moderate (about 6.3 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 7s

Hydrologic Soil Group: B

Ecological site: Loamy Upland 7-10" p.z. (R040XB213AZ)

Typical profile

0 to 5 inches: Gravelly loam

5 to 29 inches: Sandy clay loam

29 to 60 inches: Gravelly sand

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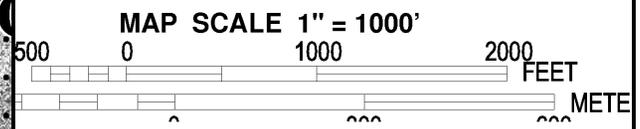
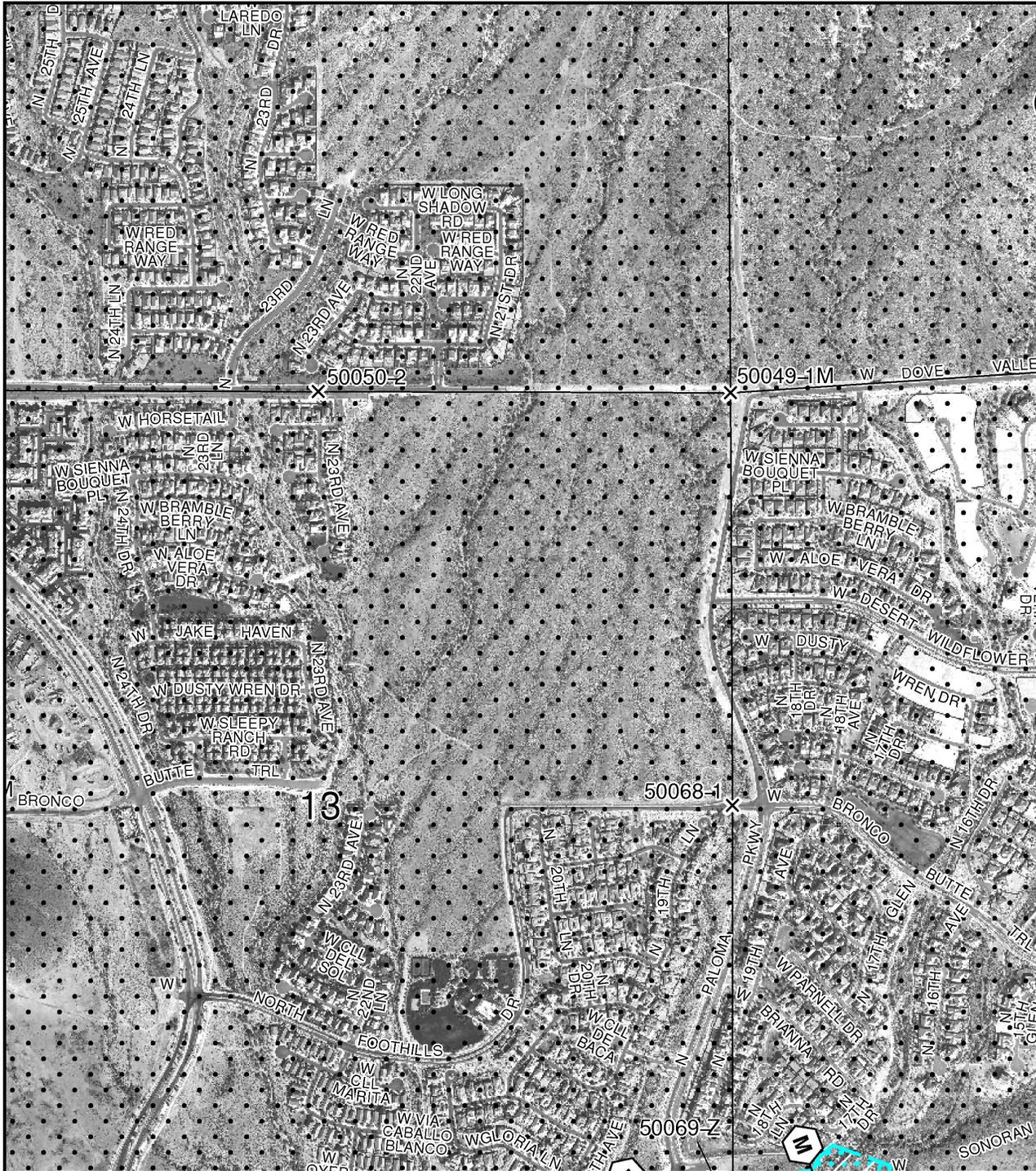
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NFIP

PANEL U865L

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP
MARICOPA COUNTY,
ARIZONA
AND INCORPORATED AREAS

PANEL 865 OF 4425
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MARICOPA COUNTY	040037	0865	L
PHOENIX, CITY OF	040051	0865	L

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.



MAP NUMBER
04013C0865L
MAP REVISED
OCTOBER 16, 2013

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

Well Registry Search

Enter Township Range

Township Half N/S Range Half E/W Section Q160 Q40 Q10

5 No N 2 No E 13

Start Over Back View Results

Well Info Imaged Record Map Data Export Pump Data Export Help

Filter Well Type: No Filter / All Well Types

Reg No.	GWSI Site ID	Cadastral	Owner Name	Well Type	Well Depth (ft)	Casing Depth (ft)	Case Dia (in)	Drill Date	Application Date	Water Level	Pump Capacity (GPM)	Pump Data Available	Completion Report	Log Received	UTM X (meters)	UTM Y (meters)
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SONORAN FOOTHILLS #1

SWC West Dove Valley Road & North Paloma Pkwy.

Phoenix, AZ 85085

Inquiry Number: 3797234.12

November 26, 2013

Certified Sanborn® Map Report

Certified Sanborn® Map Report

11/26/13

Site Name:

SONORAN FOOTHILLS #1
SWC West Dove Valley Road &
Phoenix, AZ 85085

Client Name:

Geotek
6835 Escondido Street
Las Vegas, NV 89119

EDR Inquiry # 3797234.12

Contact: Michael Batten



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Geotek were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: SONORAN FOOTHILLS #1
Address: SWC West Dove Valley Road & North Paloma
City, State, Zip: Phoenix, AZ 85085
Cross Street:
P.O. # NA
Project: 1213-PHR3
Certification # 4C9D-4798-8EB4



Sanborn® Library search results
Certification # 4C9D-4798-8EB4

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

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

The Sanborn Library LLC Since 1866™

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APPENDIX C

PHOTOGRAPHS



Photo 1: View across the Site, toward the north.



Photo 2: View across the Site, toward the south.



Photo 3: View across the Site, toward the east.



Photo 4: View across the Site, toward the west.



Photo 5: View of one of the wash channels on the Site.



Photo 6: Evidence of electrical power at the Site.

APPENDIX D

USER QUESTIONNAIRE AND OTHER DOCUMENTS

USER QUESTIONNAIRE

INTRODUCTION

In order to qualify for one of the *Landowner Liability Protections* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2002, the *user* must provide the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that "*all appropriate inquiry*" is not complete.

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

CIRCLE YES or NO

If yes, please explain in detail.

(2) Are you aware of any Activity Use Limitations (AUL), such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

YES or NO

If yes, please explain.

(3) As the *user* of this Environmental Site Assessment (ESA) do you have any specialized knowledge or familiarity related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or its neighboring *property*, so that you may have specific knowledge of the chemicals and processes used by this type of business?

YES or NO

If yes, please explain.

(4) Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*?

YES or NO

If you believe that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?

YES or NO

If yes, please explain.

(5) Are you aware of commonly known or *reasonably* ascertainable information that would help the *environment professional* to identify conditions pinpointing releases or threaten releases of hazardous materials and/ or chemicals? For example, as user,

(a.) Do you know of any past uses of the *property*? YES or NO

(b.) Do you know of specific chemicals that are present or once were present at the *property*? YES or NO

(c.) Do you know of any chemical spills or any other chemical releases that have taken place at the *property*? YES or NO

(d.) Do you know of any environmental cleanups that have taken place at the *property*? YES or NO

If any yes, please explain.

(6) As the user of this Environmental Site Assessment (ESA), based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of a contamination at the *property*?

YES or NO

If yes, please explain.

Completed By Jeff Deason
Print Name
[Signature]
Sign Name
12/10/13
Date

APPENDIX E

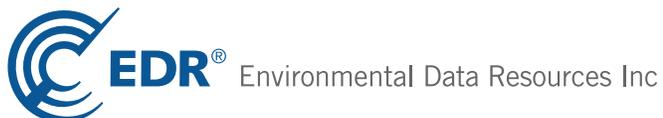
ENVIRONMENTAL DATABASE REPORT

SONORAN FOOTHILLS #1

SWC West Dove Valley Road & North Paloma Pkwy.
Phoenix, AZ 85085

Inquiry Number: 3797234.11s
November 26, 2013

The EDR Radius Map™ Report



440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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Overview Map	2
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Map Findings	7
Orphan Summary	8
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

GeoCheck - Not Requested

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

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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 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

SWC WEST DOVE VALLEY ROAD & NORTH PALOMA PKWY.
PHOENIX, AZ 85085

COORDINATES

Latitude (North): 33.7799000 - 33° 46' 47.64"
Longitude (West): 112.1043000 - 112° 6' 15.48"
Universal Transverse Mercator: Zone 12
UTM X (Meters): 397753.3
UTM Y (Meters): 3738106.2
Elevation: 1624 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 33112-G1 NEW RIVER SE, AZ
Most Recent Revision: 1981

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2010
Source: USDA

TARGET PROPERTY SEARCH RESULTS

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

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List

EXECUTIVE SUMMARY

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

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

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

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

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

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls
LUCIS..... Land Use Control Information System

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

AZ WQARF..... Water Quality Assurance Revolving Fund Sites
AZ NPL..... NPL Detail Listing

State- and tribal - equivalent CERCLIS

SPL..... Superfund Program List
SHWS..... ZipAcids List

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

SWF/LF..... Directory of Solid Waste Facilities

State and tribal leaking storage tank lists

LUST..... Leaking Underground Storage Tank Listing

EXECUTIVE SUMMARY

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

State and tribal registered storage tank lists

UST..... Underground Storage Tank Listing
AST..... List of Aboveground Storage Tanks
INDIAN UST..... Underground Storage Tanks on Indian Land
FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

AUL..... DEUR Database
AZURITE..... Remediation and DEUR/VEMUR Tracking System

State and tribal voluntary cleanup sites

VCP..... Voluntary Remediation Program Sites
INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Tracking System

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory
SWTIRE..... Solid Waste Tire Facilities
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
CDL..... Clandestine Drug Labs
US HIST 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..... Hazardous Material Logbook
SPILLS 90..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators

EXECUTIVE SUMMARY

DOT OPS.....	Incident and Accident Data
DOD.....	Department of Defense Sites
FUDS.....	Formerly Used Defense Sites
CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision
UMTRA.....	Uranium Mill Tailings Sites
US MINES.....	Mines Master Index File
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System
RMP.....	Risk Management Plans
UIC.....	Underground Injection Control Wells
MANIFEST.....	Facility and Manifest Data
DRYCLEANERS.....	Drycleaner Facility Listing
AZ DOD.....	Department of Defense Sites
Aquifer.....	Waste Water Treatment Facilities
WWFAC.....	Waste Water Treatment Facilities
Dry Wells.....	Drywell Registration
AIRS.....	Arizona Airs Database
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
PRP.....	Potentially Responsible Parties
PCB TRANSFORMER.....	PCB Transformer Registration Database
2020 COR ACTION.....	2020 Corrective Action Program List
LEAD SMELTERS.....	Lead Smelter Sites
EPA WATCH LIST.....	EPA WATCH LIST
US FIN ASSUR.....	Financial Assurance Information
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
Financial Assurance.....	Financial Assurance Information Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

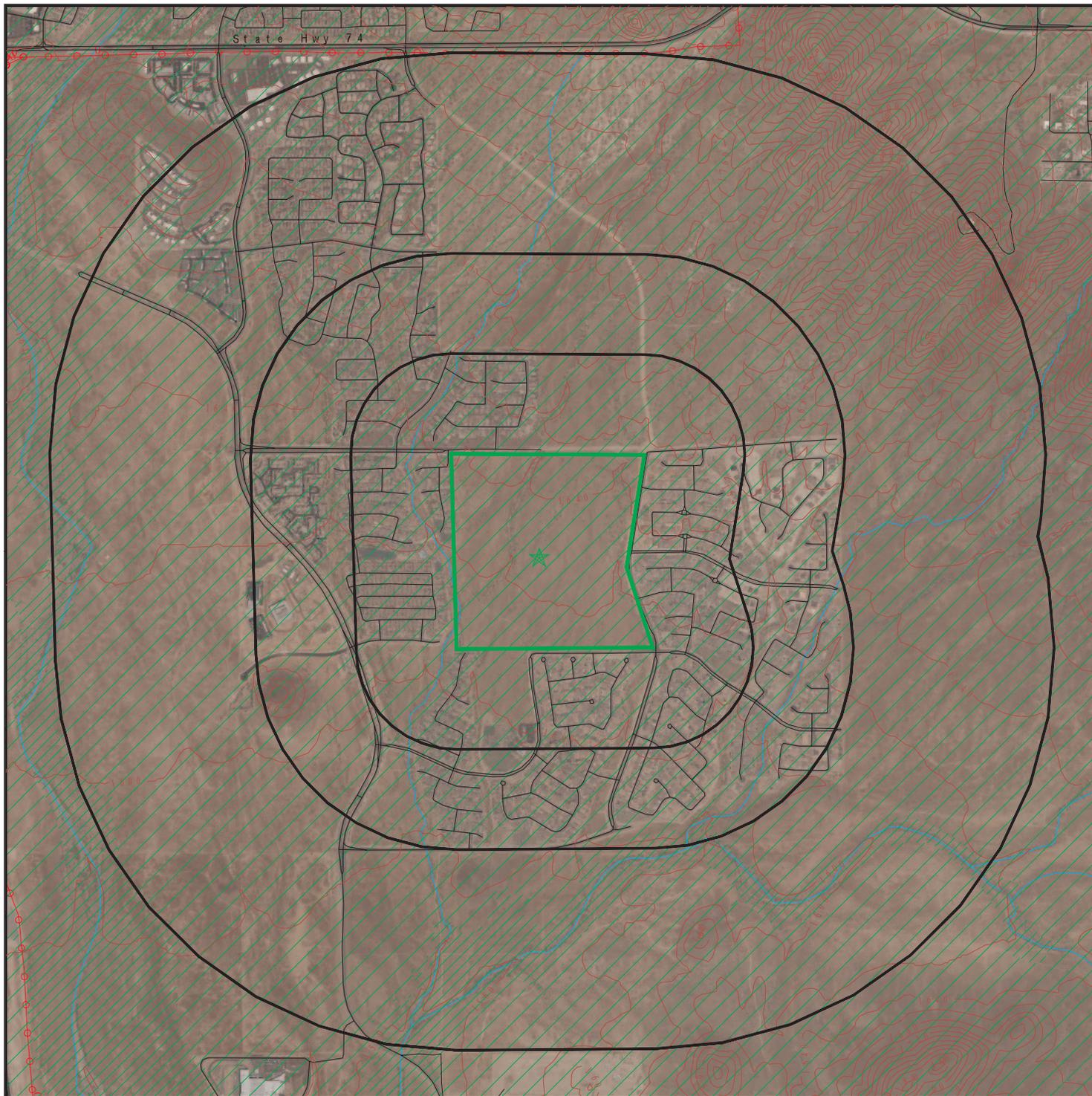
Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

<u>Site Name</u>	<u>Database(s)</u>
ULTRA 1 DAY CLEANERS	RCRA NonGen / NLR, FINDS, Financial Assurance
ARIZONA PUBLIC SERVICE COMPANY	PCB TRANSFORMER
CITY OF PHOENIX NORTH GATEWAY TRAN	SWTIRE
MARICOPA COUNTY MORRISTOWN TRANSFE	SWTIRE
PHOENIX, CITY OF, NORTH GATEWAYTRA	SWF/LF
MORRISTOWN TRANSFER STATION	SWF/LF
SALT RIVER/PIMA TRIBE / TRI-CITY	SWF/LF
HASSAYAMPA TRANSFER STATION	SWF/LF
YELLOW FREIGHT	RCRA NonGen / NLR, FINDS, SPILLS
PHOENIX FIRE DEPT ILLEGAL LAB	RCRA NonGen / NLR, FINDS
APS PIONEER SUBSTATION	RCRA NonGen / NLR, FINDS
M52 - OPERABLE UNIT 1	FINDS
NEXTEL 1	FINDS
161ST AIR NATIONAL GUARD - OU 1 P.	FINDS
FISHER SAND & GRAVEL - ASPHALT PLA	FINDS
DPE MATERIALS- COUNTY 19TH HMAP #1	FINDS
PHILIP TRANSPORTATION & REMEDIATIO	MANIFEST
TRAMONTO MARKETPLACE	Dry Wells
19602 NORTH 32ST STREET 38	US CDL
	DOT OPS

OVERVIEW MAP - 3797234.11s



 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

 Oil & Gas pipelines from USGS

 100-year flood zone

 500-year flood zone

 DOD Sites: AZ DEQ

 Water Quality Assurance Revolving Fund Areas

 AZ NPL

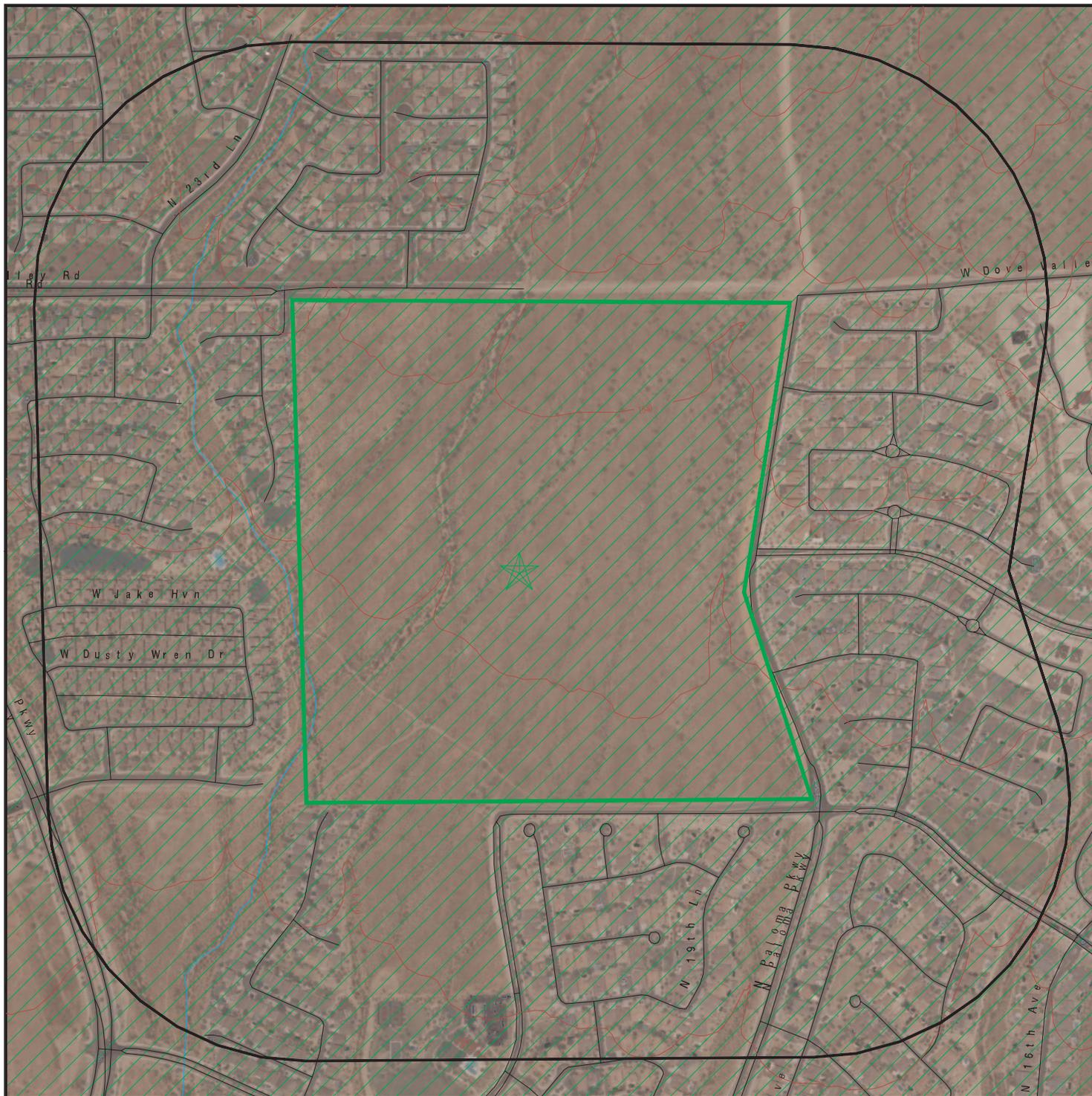


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: SONORAN FOOTHILLS #1
 ADDRESS: SWC West Dove Valley Road & North Paloma Pkwy.
 Phoenix AZ 85085
 LAT/LONG: 33.7799 / 112.1043

CLIENT: Geotek
 CONTACT: Michael Batten
 INQUIRY #: 3797234.11s
 DATE: November 26, 2013 7:42 pm

DETAIL MAP - 3797234.11s



- | | | |
|---|---|--|
|  Target Property |  Indian Reservations BIA |  DOD Sites: AZ DEQ |
|  Sites at elevations higher than or equal to the target property |  Oil & Gas pipelines from USGS |  Water Quality Assurance Revolving Fund Areas |
|  Sites at elevations lower than the target property |  100-year flood zone |  AZ NPL |
|  Manufactured Gas Plants |  500-year flood zone | |
|  Sensitive Receptors | | |
|  National Priority List Sites | | |
|  Dept. Defense Sites | | |

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 ADDRESS: SWC West Dove Valley Road & North Paloma Pkwy.
 Phoenix AZ 85085
 LAT/LONG: 33.7799 / 112.1043

CLIENT: Geotek
 CONTACT: Michael Batten
 INQUIRY #: 3797234.11s
 DATE: November 26, 2013 7:42 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	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>								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP	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>								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	0.001		0	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL</i>								
AZ WQARF	1.000		0	0	0	0	NR	0
AZ NPL	1.000		0	0	0	0	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SPL	1.000		0	0	0	0	NR	0
SHWS	1.000		0	0	0	0	NR	0
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
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
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
AUL	0.500		0	0	0	NR	NR	0
AZURITE	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
SWTIRE	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	0.001		0	NR	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
US HIST CDL	0.001		0	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
SPILLS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	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
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
AZ DOD	0.500		0	0	0	NR	NR	0
Aquifer	0.001		0	NR	NR	NR	NR	0
WWFAC	0.500		0	0	0	NR	NR	0
Dry Wells	0.001		0	NR	NR	NR	NR	0
AIRS	0.001		0	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		0	0	NR	NR	NR	0
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO SITES FOUND

Count: 20 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CORDES JUNCTION	1006804429	YELLOW FREIGHT	I-17, MP 268 (NORTHBOUND)		RCRA NonGen / NLR, FINDS, SPILLS
MARICOPA COUNTY	S113727203	PHOENIX, CITY OF, NORTH GATEWAYTRA	30205 NORTH BLACK CANYON HWY,		SWF/LF
MARICOPA COUNTY	S107504001	CITY OF PHOENIX NORTH GATEWAY TRAN	30205 NORTH BLACK CANYON HWY.		SWTIRE
MARICOPA COUNTY	S113727215	MORRISTOWN TRANSFER STATION	40135 N HWY 60, MORRISTON, AZ		SWF/LF
MARICOPA COUNTY	S110143196	SALT RIVER/PIMA TRIBE / TRI-CITY	1 MILE NORTH OF MC DOWELL ON T		SWF/LF
MARICOPA COUNTY	S113727207	HASSAYAMPA TRANSFER STATION	32450 W. SALOME HIGHWAY, ARLIN		SWF/LF
MARICOPA COUNTY	S108414273	MARICOPA COUNTY MORRISTOWN TRANSFE	40135 N. US HIGHWAY 60 MARICOP		SWTIRE
PHOENIX	1006804583	PHOENIX FIRE DEPT ILLEGAL LAB	27TH AVE SOUTHERN NORTH		RCRA NonGen / NLR, FINDS
PHOENIX	1012197731	19602 NORTH 32ST STREET 38	19602 NORTH 32ST STREET 38		US CDL
PHOENIX	1012169593	M52 - OPERABLE UNIT 1	NO ADDRESS ON RECORD		FINDS
PHOENIX	1006804279	APS PIONEER SUBSTATION	I17 AT CAREFREE HWY 1200 FT E		RCRA NonGen / NLR, FINDS
PHOENIX	1007151471	NEXTEL 1	3719 LASALLE STREET		FINDS
PHOENIX	1014627468	ARIZONA PUBLIC SERVICE COMPANY	LINCOLN ST. NORTH SUBSTATION,		PCB TRANSFORMER
PHOENIX	S108725096	PHILIP TRANSPORTATION & REMEDIATIO	2003 W MCDOWELL OUT OF STATE T		MANIFEST
PHOENIX	S109347764	TRAMONTO MARKETPLACE	NWC CAREFREE HIGHWAY & NORTH V		Dry Wells
PHOENIX	1009635475		NORTH OF LYNNE LANE ON 41ST AV		DOT OPS
PHOENIX	1012151508	161ST AIR NATIONAL GUARD - OU 1 P.	PHOENIX		FINDS
PHOENIX	1012069554	FISHER SAND & GRAVEL - ASPHALT PLA	PORTABLE		FINDS
PHOENIX	1009798626	DPE MATERIALS- COUNTY 19TH HMAP #1	PORTABLE		FINDS
PHOENIX	1000352312	ULTRA 1 DAY CLEANERS	12020 S WARNER STE 120		RCRA NonGen / NLR, FINDS, Financial Assurance

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: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/09/2013	Telephone: N/A
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 11/11/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: 01/20/2014
	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: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/09/2013	Telephone: N/A
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 11/11/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: 01/20/2014
	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: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/09/2013	Telephone: N/A
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 11/11/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: 01/20/2014
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/29/2013	Telephone: 703-412-9810
Date Made Active in Reports: 08/09/2013	Last EDR Contact: 11/11/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 03/10/2014
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

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

Date of Government Version: 07/31/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/09/2012	Telephone: 703-603-8704
Date Made Active in Reports: 12/20/2012	Last EDR Contact: 10/11/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 01/20/2014
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/29/2013	Telephone: 703-412-9810
Date Made Active in Reports: 08/09/2013	Last EDR Contact: 11/11/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 03/10/2014
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
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: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
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: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
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: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

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

Date of Government Version: 06/17/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2013	Telephone: 703-603-0695
Date Made Active in Reports: 10/03/2013	Last EDR Contact: 09/10/2013
Number of Days to Update: 104	Next Scheduled EDR Contact: 12/23/2013
	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: 06/17/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2013	Telephone: 703-603-0695
Date Made Active in Reports: 10/03/2013	Last EDR Contact: 09/10/2013
Number of Days to Update: 104	Next Scheduled EDR Contact: 12/23/2013
	Data Release Frequency: Varies

LUCIS: Land Use Control Information System

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

Date of Government Version: 08/20/2013	Source: Department of the Navy
Date Data Arrived at EDR: 08/23/2013	Telephone: 843-820-7326
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 11/18/2013
Number of Days to Update: 70	Next Scheduled EDR Contact: 03/03/2014
	Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

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

Date of Government Version: 12/31/2012	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/17/2013	Telephone: 202-267-2180
Date Made Active in Reports: 02/15/2013	Last EDR Contact: 10/01/2013
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/13/2014
	Data Release Frequency: Annually

State- and tribal - equivalent NPL

WQARF: Water Quality Assurance Revolving Fund Sites

Sites which may have an actual or potential impact upon the waters of the state, cause by hazardous substances. The WQARF program provides matching funds to political subdivisions and other state agencies for clean-up activities.

Date of Government Version: 07/01/2012	Source: Department of Environmental Quality
Date Data Arrived at EDR: 05/31/2013	Telephone: 602-771-4360
Date Made Active in Reports: 06/12/2013	Last EDR Contact: 08/30/2013
Number of Days to Update: 12	Next Scheduled EDR Contact: 12/09/2013
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AZ NPL: NPL Detail Listing

Detailed site information for NPL sites from the Arizona Department of Environmental Quality.

Date of Government Version: 07/01/2012	Source: Department of Environmental Quality
Date Data Arrived at EDR: 05/31/2013	Telephone: 602-771-4609
Date Made Active in Reports: 06/12/2013	Last EDR Contact: 08/30/2013
Number of Days to Update: 12	Next Scheduled EDR Contact: 12/09/2013
	Data Release Frequency: Varies

State- and tribal - equivalent CERCLIS

SPL: Superfund Program List

The list is representative of the sites and potential sites within the jurisdiction of the Superfund Program Section. It is comprised of the following elements: 1) Water Quality Assurance Revolving Fund Registry Sites; 2) Potential WQARF Registry sites; 3) NPL sites; and 4) Department of Defense sites requiring SPS oversight.

Date of Government Version: 08/25/2004	Source: Department of Environmental Quality
Date Data Arrived at EDR: 12/03/2004	Telephone: 602-771-4360
Date Made Active in Reports: 01/25/2005	Last EDR Contact: 11/04/2013
Number of Days to Update: 53	Next Scheduled EDR Contact: 02/17/2014
	Data Release Frequency: Semi-Annually

SHWS: ZipAcids List

The ACIDS list consists of more than 750 locations subject to investigation under the State Water Quality Assurance Revolving Fund (WQARF) and Federal CERCLA programs. The list is no longer updated by the state.

Date of Government Version: 01/03/2000	Source: Department of Environmental Quality
Date Data Arrived at EDR: 04/11/2000	Telephone: 602-771-4360
Date Made Active in Reports: 05/16/2000	Last EDR Contact: 09/23/2013
Number of Days to Update: 35	Next Scheduled EDR Contact: 10/07/2013
	Data Release Frequency: No Update Planned

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

SWF/LF: Directory of Solid Waste Facilities

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: 06/30/2013	Source: Department of Environmental Quality
Date Data Arrived at EDR: 09/06/2013	Telephone: 602-771-2300
Date Made Active in Reports: 10/04/2013	Last EDR Contact: 09/03/2013
Number of Days to Update: 28	Next Scheduled EDR Contact: 12/16/2013
	Data Release Frequency: Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Listing

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: 07/19/2013	Source: Department of Environmental Quality
Date Data Arrived at EDR: 08/02/2013	Telephone: 602-771-4345
Date Made Active in Reports: 09/05/2013	Last EDR Contact: 10/09/2013
Number of Days to Update: 34	Next Scheduled EDR Contact: 01/27/2014
	Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/29/2013
Date Data Arrived at EDR: 07/30/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 94

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
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: 03/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
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: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
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: 08/27/2013
Date Data Arrived at EDR: 08/27/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 66

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
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: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
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: 08/01/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Semi-Annually

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

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 184

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/01/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

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: 08/20/2013	Source: EPA, Region 5
Date Data Arrived at EDR: 08/23/2013	Telephone: 312-886-7439
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 10/28/2013
Number of Days to Update: 70	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Underground Storage Tank Listing

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: 08/22/2013	Source: Department of Environmental Quality
Date Data Arrived at EDR: 08/23/2013	Telephone: 602-771-4345
Date Made Active in Reports: 09/05/2013	Last EDR Contact: 10/09/2013
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/27/2014
	Data Release Frequency: Annually

AST 2: Aboveground Storage Tank Listing

A listing of aboveground storage tank site locations.

Date of Government Version: 06/25/2013	Source: Department of Environmental Quality
Date Data Arrived at EDR: 07/10/2013	Telephone: 602-771-4380
Date Made Active in Reports: 08/15/2013	Last EDR Contact: 09/16/2013
Number of Days to Update: 36	Next Scheduled EDR Contact: 12/30/2013
	Data Release Frequency: Varies

AST: List of Aboveground Storage Tanks

Aboveground storage tanks that the Dept. of Building & Fire Safety have permitted.

Date of Government Version: 09/16/2013	Source: Department of Building & Fire Safety
Date Data Arrived at EDR: 09/17/2013	Telephone: 602-364-1003
Date Made Active in Reports: 10/07/2013	Last EDR Contact: 09/16/2013
Number of Days to Update: 20	Next Scheduled EDR Contact: 12/30/2013
	Data Release Frequency: No Update Planned

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: 08/01/2013	Source: EPA Region 4
Date Data Arrived at EDR: 08/02/2013	Telephone: 404-562-9424
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 10/28/2013
Number of Days to Update: 91	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: Semi-Annually

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: 02/21/2013	Source: EPA Region 9
Date Data Arrived at EDR: 02/26/2013	Telephone: 415-972-3368
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 10/28/2013
Number of Days to Update: 45	Next Scheduled EDR Contact: 02/11/2014
	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: 07/29/2013	Source: EPA Region 8
Date Data Arrived at EDR: 08/01/2013	Telephone: 303-312-6137
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 10/28/2013
Number of Days to Update: 92	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: Quarterly

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: 12/31/2012	Source: EPA Region 7
Date Data Arrived at EDR: 02/28/2013	Telephone: 913-551-7003
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 10/28/2013
Number of Days to Update: 43	Next Scheduled EDR Contact: 02/11/2014
	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: 05/10/2011	Source: EPA Region 6
Date Data Arrived at EDR: 05/11/2011	Telephone: 214-665-7591
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 10/28/2013
Number of Days to Update: 34	Next Scheduled EDR Contact: 02/11/2014
	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: 08/20/2013	Source: EPA Region 5
Date Data Arrived at EDR: 08/23/2013	Telephone: 312-886-6136
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 10/28/2013
Number of Days to Update: 70	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 09/28/2012	Source: EPA, Region 1
Date Data Arrived at EDR: 11/07/2012	Telephone: 617-918-1313
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 11/01/2014
Number of Days to Update: 156	Next Scheduled EDR Contact: 02/11/2014
	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: 02/05/2013	Source: EPA Region 10
Date Data Arrived at EDR: 02/06/2013	Telephone: 206-553-2857
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 10/28/2013
Number of Days to Update: 65	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	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: 10/17/2013
Number of Days to Update: 55	Next Scheduled EDR Contact: 01/27/2014
	Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

AUL: DEUR Database

Activity and use limitations include both engineering controls and institutional controls. DEUR and VEMUR sites. DEUR: Declaration of Environmental Use Restriction. A restrictive land use covenant that is required when a property owner elects to use an institutional (i.e., administrative) control or engineering (i.e., physical) control as a means to meet remediation goals. The DEUR runs with and burdens the land, and requires maintenance of any institutional or engineering controls. VEMUR: Voluntary Environmental Mitigation Use Restriction. A restrictive land use covenant that, prior to July 18, 2000, was required when a property owner elected to remediate the property to non-residential uses. Effective July 18, 2000, the DEUR replaced the VEMUR as a restrictive use covenant.

Date of Government Version: 07/03/2013	Source: Department of Environmental Quality
Date Data Arrived at EDR: 07/05/2013	Telephone: 602-771-4397
Date Made Active in Reports: 08/14/2013	Last EDR Contact: 10/07/2013
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/08/2014
	Data Release Frequency: Varies

AZURITE: Remediation and DEUR/VEMUR Tracking System

ADEQ maintains a repository listing sites remediated under programs administered by the department.

Date of Government Version: 07/05/2013	Source: Department of Environmental Quality
Date Data Arrived at EDR: 07/05/2013	Telephone: 602-771-4397
Date Made Active in Reports: 08/14/2013	Last EDR Contact: 10/07/2013
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/08/2014
	Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

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

INDIAN VCP R1: Voluntary Cleanup Priority Listing

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

Date of Government Version: 09/28/2012	Source: EPA, Region 1
Date Data Arrived at EDR: 10/02/2012	Telephone: 617-918-1102
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 10/01/2013
Number of Days to Update: 14	Next Scheduled EDR Contact: 01/13/2014
	Data Release Frequency: Varies

VCP: Voluntary Remediation Program Sites

Sites involved in the Voluntary Remediation Program.

Date of Government Version: 07/16/2013	Source: Department of Environmental Quality
Date Data Arrived at EDR: 07/17/2013	Telephone: 602-771-4411
Date Made Active in Reports: 08/16/2013	Last EDR Contact: 08/26/2013
Number of Days to Update: 30	Next Scheduled EDR Contact: 03/10/2014
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Tracking System
Information relating to Brownfields sites in Arizona.

Date of Government Version: 07/16/2013	Source: Department of Environmental Quality
Date Data Arrived at EDR: 07/17/2013	Telephone: 602-771-4401
Date Made Active in Reports: 08/16/2013	Last EDR Contact: 11/25/2013
Number of Days to Update: 30	Next Scheduled EDR Contact: 03/10/2014
	Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

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

Date of Government Version: 06/24/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/25/2013	Telephone: 202-566-2777
Date Made Active in Reports: 08/09/2013	Last EDR Contact: 09/24/2013
Number of Days to Update: 45	Next Scheduled EDR Contact: 01/08/2014
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

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

Date of Government Version: 01/12/2009	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: 10/28/2013
Number of Days to Update: 137	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

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

Date of Government Version: 06/30/1985	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

SWTIRE: Solid Waste Tire Facilities

A waste tire "facility" means a solid waste facility at which waste tires are stored outdoors on any day.

Date of Government Version: 06/30/2013	Source: Department of Environmental Quality
Date Data Arrived at EDR: 09/06/2013	Telephone: 602-771-4132
Date Made Active in Reports: 10/04/2013	Last EDR Contact: 09/03/2013
Number of Days to Update: 28	Next Scheduled EDR Contact: 12/17/2012
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 11/04/2013
Number of Days to Update: 52	Next Scheduled EDR Contact: 02/17/2014
	Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

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

Date of Government Version: 08/06/2013	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 09/11/2013	Telephone: 202-307-1000
Date Made Active in Reports: 10/03/2013	Last EDR Contact: 09/04/2013
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/16/2013
	Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab seizures in Arizona.

Date of Government Version: 05/28/2013	Source: Board of Technical Registration
Date Data Arrived at EDR: 08/05/2013	Telephone: 602-364-4931
Date Made Active in Reports: 08/23/2013	Last EDR Contact: 09/30/2013
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/13/2014
	Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

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

Date of Government Version: 09/01/2007	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 11/19/2008	Telephone: 202-307-1000
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 03/23/2009
Number of Days to Update: 131	Next Scheduled EDR Contact: 06/22/2009
	Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

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

Date of Government Version: 02/06/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/25/2013	Telephone: 202-564-6023
Date Made Active in Reports: 05/10/2013	Last EDR Contact: 11/13/2013
Number of Days to Update: 15	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/31/2012	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 01/03/2013	Telephone: 202-366-4555
Date Made Active in Reports: 02/27/2013	Last EDR Contact: 10/01/2013
Number of Days to Update: 55	Next Scheduled EDR Contact: 01/13/2014
	Data Release Frequency: Annually

SPILLS: Hazardous Material Logbook

Chemical spills and incidents referred to the Emergency Response Unit.

Date of Government Version: 11/15/2001	Source: Department of Environmental Quality
Date Data Arrived at EDR: 06/28/2007	Telephone: 602-771-4153
Date Made Active in Reports: 07/24/2007	Last EDR Contact: 09/03/2013
Number of Days to Update: 26	Next Scheduled EDR Contact: 12/16/2013
	Data Release Frequency: Varies

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: 12/11/2001	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/11/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

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

Date of Government Version: 07/11/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/08/2013	Telephone: (415) 495-8895
Date Made Active in Reports: 09/13/2013	Last EDR Contact: 10/02/2013
Number of Days to Update: 36	Next Scheduled EDR Contact: 01/13/2014
	Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

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

Date of Government Version: 07/31/2012	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 08/07/2012	Telephone: 202-366-4595
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 11/06/2013
Number of Days to Update: 42	Next Scheduled EDR Contact: 02/17/2014
	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/18/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

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

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
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: 06/30/2013
Date Data Arrived at EDR: 08/07/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 57

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/30/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Varies

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: 04/26/2013
Date Data Arrived at EDR: 06/11/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 143

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/13/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

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

Date of Government Version: 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: 11/26/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Varies

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: 08/01/2013
Date Data Arrived at EDR: 09/05/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 28

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/05/2013
Next Scheduled EDR Contact: 12/16/2013
Data Release Frequency: Semi-Annually

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/31/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 44

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/30/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Annually

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: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/24/2013
Next Scheduled EDR Contact: 01/08/2014
Data Release Frequency: Every 4 Years

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
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 11/21/2013
Next Scheduled EDR Contact: 03/10/2014
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
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 11/21/2014
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

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

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

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

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

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

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

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
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
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: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 10/09/2014
Next Scheduled EDR Contact: 01/27/2014
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: 06/01/2013
Date Data Arrived at EDR: 07/17/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 107

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/18/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Annually

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: 07/22/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Quarterly

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: 09/30/2013
Date Data Arrived at EDR: 10/09/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 10/09/2013
Next Scheduled EDR Contact: 01/20/2014
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 03/08/2013	Source: EPA
Date Data Arrived at EDR: 03/21/2013	Telephone: (415) 947-8000
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 09/11/2013
Number of Days to Update: 111	Next Scheduled EDR Contact: 12/23/2013
	Data Release Frequency: Quarterly

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

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: 05/08/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/25/2012	Telephone: 202-564-8600
Date Made Active in Reports: 07/10/2012	Last EDR Contact: 10/28/2013
Number of Days to Update: 46	Next Scheduled EDR Contact: 02/11/2014
	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: 12/31/2011	Source: EPA/NTIS
Date Data Arrived at EDR: 02/26/2013	Telephone: 800-424-9346
Date Made Active in Reports: 04/19/2013	Last EDR Contact: 11/25/2013
Number of Days to Update: 52	Next Scheduled EDR Contact: 03/10/2014
	Data Release Frequency: Biennially

UIC: Underground Injection Control Wells

Underground injection control wells.

Date of Government Version: 08/02/2012	Source: Arizona Geological Survey
Date Data Arrived at EDR: 08/07/2012	Telephone: 520-770-3500
Date Made Active in Reports: 08/31/2012	Last EDR Contact: 11/04/2013
Number of Days to Update: 24	Next Scheduled EDR Contact: 02/17/2014
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AZ MANIFEST: Manifest Information

Hazardous waste manifest information

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 10/20/2009
Date Made Active in Reports: 11/16/2009
Number of Days to Update: 27

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 09/23/2013
Next Scheduled EDR Contact: 01/08/2014
Data Release Frequency: Annually

DRYCLEANERS: Drycleaner Facility Listing

A listing of drycleaner facilities in Arizona.

Date of Government Version: 09/05/2013
Date Data Arrived at EDR: 09/06/2013
Date Made Active in Reports: 10/07/2013
Number of Days to Update: 31

Source: Department of Environmental Quality
Telephone: 602-771-4335
Last EDR Contact: 09/05/2013
Next Scheduled EDR Contact: 01/08/2014
Data Release Frequency: Varies

DOD: Department of Defense Sites

These sites are federal facilities that are either being assessed for potential contamination, or have active remediation taking place on them.

Date of Government Version: 07/01/2012
Date Data Arrived at EDR: 05/31/2013
Date Made Active in Reports: 06/12/2013
Number of Days to Update: 12

Source: Department of Environmental Quality
Telephone: 602-771-4360
Last EDR Contact: 08/30/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Annually

AQUIFER: Waste Water Treatment Facilities

Waste Water Treatment Facilities with APP (Aquifer Protection Permits.)

Date of Government Version: 06/25/2013
Date Data Arrived at EDR: 07/10/2013
Date Made Active in Reports: 08/15/2013
Number of Days to Update: 36

Source: Department of Environmental Quality
Telephone: 602-771-4623
Last EDR Contact: 11/18/2013
Next Scheduled EDR Contact: 03/03/2014
Data Release Frequency: Semi-Annually

WWFAC: Waste Water Treatment Facilities

Statewide list of waste water treatment facilities.

Date of Government Version: 07/09/2012
Date Data Arrived at EDR: 07/23/2012
Date Made Active in Reports: 09/06/2012
Number of Days to Update: 45

Source: Department of Environmental Quality
Telephone: 602-771-4623
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

DRY WELLS: Drywell Registration

A drywell is a bored, drilled, or driven shaft or hole whose depth is greater than its width and is designed and constructed specifically for the disposal of storm water.

Date of Government Version: 09/05/2013
Date Data Arrived at EDR: 09/06/2013
Date Made Active in Reports: 10/07/2013
Number of Days to Update: 31

Source: Department of Environmental Quality
Telephone: 602-771-4686
Last EDR Contact: 11/20/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Semi-Annually

AIRS: Arizona Airs Database

Arizona major (has the potential to emit over 100 tons of criteria pollutant) and minor (below 100 tons) sources.

Date of Government Version: 06/25/2013
Date Data Arrived at EDR: 07/10/2013
Date Made Active in Reports: 08/16/2013
Number of Days to Update: 37

Source: Department of Environmental Quality
Telephone: 602-771-2344
Last EDR Contact: 10/07/2013
Next Scheduled EDR Contact: 01/20/2014
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN RESERV: Indian Reservations

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

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 10/18/2013
Number of Days to Update: 34	Next Scheduled EDR Contact: 01/27/2014
	Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

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

Date of Government Version: 03/07/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2011	Telephone: 615-532-8599
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 11/18/2013
Number of Days to Update: 54	Next Scheduled EDR Contact: 02/03/2014
	Data Release Frequency: Varies

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 01/23/2013	Source: EPA
Date Data Arrived at EDR: 01/30/2013	Telephone: 202-564-5962
Date Made Active in Reports: 05/10/2013	Last EDR Contact: 09/30/2013
Number of Days to Update: 100	Next Scheduled EDR Contact: 01/13/2014
	Data Release Frequency: Annually

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: 01/23/2013	Source: EPA
Date Data Arrived at EDR: 01/30/2013	Telephone: 202-564-5962
Date Made Active in Reports: 05/10/2013	Last EDR Contact: 09/30/2013
Number of Days to Update: 100	Next Scheduled EDR Contact: 01/13/2014
	Data Release Frequency: Annually

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: 11/11/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/18/2012	Telephone: 703-308-4044
Date Made Active in Reports: 05/25/2012	Last EDR Contact: 11/15/2013
Number of Days to Update: 7	Next Scheduled EDR Contact: 02/24/2014
	Data Release Frequency: Varies

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/15/2013
Date Data Arrived at EDR: 07/03/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 72

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 10/04/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Quarterly

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: 10/18/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: N/A

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

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013
Date Data Arrived at EDR: 02/14/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 09/24/2013
Next Scheduled EDR Contact: 01/20/2014
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information for ust sites.

Date of Government Version: 07/26/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 09/05/2013
Number of Days to Update: 34

Source: Department of Environmental Quality
Telephone: 602-771-4258
Last EDR Contact: 10/21/2013
Next Scheduled EDR Contact: 01/13/2014
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: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/13/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/30/2013
Date Data Arrived at EDR: 08/13/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/15/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Quarterly

US FIN ASSUR: Financial Assurance Information

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

Date of Government Version: 03/04/2013
Date Data Arrived at EDR: 03/15/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/18/2013
Next Scheduled EDR Contact: 03/03/2014
Data Release Frequency: Quarterly

PCB TRANSFORMER: PCB Transformer Registration Database

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

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

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/01/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 10/15/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Varies

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 US Hist Auto Stat: EDR Exclusive Historic Gas Stations

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

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

Date of Government Version: N/A
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 US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

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: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

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: N/A
Telephone: N/A
Last EDR Contact: N/A
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.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/22/2013
Next Scheduled EDR Contact: 03/03/2014
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/01/2013
Date Data Arrived at EDR: 11/07/2013
Date Made Active in Reports: 11/18/2013
Number of Days to Update: 11

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/07/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 06/21/2013
Date Made Active in Reports: 08/05/2013
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/25/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 08/09/2013
Date Made Active in Reports: 09/27/2013
Number of Days to Update: 49

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/16/2013
Next Scheduled EDR Contact: 12/30/2013
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: Rextag Strategies Corp.
Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Daycare Centers: Child Care Facilities & Group Homes
Source: Department of Health Services
Telephone: 602-674-4220

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

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

State Wetlands Data: Riparian Vegetation Associated with Perennial Waters
Source: State Land Department
Telephone: 602-542-4094

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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APPENDIX F

PROJECT TEAM QUALIFICATIONS

J. MICHAEL BATTEN, CAC, CEM, REPA

Environmental Services Manager

Education

BS in Geology, California State University, Fresno 1988

Registrations

- Certified Asbestos Consultant (CA #95-1721)
- Licensed Asbestos Abatement Consultant (NV #IJPM0655)
- Certified Environmental Manager (NV #1782)
- Asbestos Professional Inspector (IL #100-11092)
- Registered Environmental Property Assessor (#113162)

Certifications

- AHERA Certified Asbestos Building Inspector, Management Planner, Project Designer, & Contractor/Supervisor
- EPA Accredited Lead-based Paint Inspector & Risk Assessor
- OSHA HAZWOPER certified worker & supervisor
- OSHA Construction Safety & Health (10-Hour)

Affiliations

- American Society of Testing and Materials
- National registry of Environmental Professionals

Professional Experience

Mr. Batten has over 24 years of environmental experience, throughout which he has conducted and managed numerous environmental investigations, assessments, and remediations. He has prepared several NEPA assessments, USEPA EIS, and CEQA EIR reports. In addition, Mr. Batten has extensive experience in conducting asbestos and lead-based paint surveys and preparing management plans, including remediation design, for asbestos and lead present in buildings.

Project Experience

- **Phase I Environmental Site Assessments:** Mr. Batten has conducted more than 1,300 Phase I Environmental Site Assessments in 21 states, including Brownfield studies under USEPA grants.
- **Phase II Environmental Site Assessments:** Mr. Batten has conducted more than 120 Phase II Environmental Assessments, including Brownfield studies under USEPA grants.
- **Site Characterizations and Remediations:** Mr. Batten has experience conducting numerous site characterizations and remediations, including obtaining regulatory closure.
- **NEPA Studies:** Mr. Batten has conducted more than 200 NEPA studies, including Environmental Assessments, Environmental Impact Reports/Environmental Impact Studies, in eight states. The agencies involved include USEPA, FCC, BLM, National Park Service, and California EPA.
- **Asbestos Services:** Mr. Batten has conducted over 500 asbestos surveys in several states. He has also prepared numerous Asbestos Management Plans, prepared design plans, and monitored numerous abatement projects.
- **Lead-Based Paint Services:** Mr. Batten has conducted numerous Lead-Based Paint surveys.
- **Landfills:** Mr. Batten has conducted investigations and overseen remediations on landfills in Fresno, California and Henderson, Nevada.
- **Other Services:** Mr. Batten has been called upon to conduct less usual services on occasion, including mold consultation and investigation, radon studies, vapor intrusion studies, and indoor air quality studies.

J. MICHAEL BATTEN, continued...



Professional History

Environmental Services Manager. GeoTek, Inc., 2001 to present.

Director of Environmental Services. ATC Associates, Inc., 1999 to 2001.

Director of Operations. Hygienetics Environmental Services, Inc., 1997 to 1999.

Project Manager. AllWest Environmental, Inc., 1996 to 1997.

Project Manager. Citadel Environmental Services, Inc., 2/1996 to 9/1996.

Project Manager. Boelter Environmental consultants, 3/1995 to 9/1995.

Senior Staff Geologist. Converse Consultants, 1992 to 1995.

Staff Geologist. Converse Environmental West, 1991 to 1992.

Project Geologist. Krazan and Associates, 1990 to 1991.

Environmental Technician. Krazan and Associates, 1989 to 1990.

DEPARTMENT OF INDUSTRIAL RELATIONS

Division of Occupational Safety and Health

Asbestos Unit

2424 Arden Way, Suite 495

Sacramento, CA 95825-2417

(916) 574-2993 Office (916) 483-0572 Fax

<http://www.dir.ca.gov/dir/databases.html>actu@dir.ca.gov

505011721C

109

115

August 26, 2013

J. Michael Batten

8240 Edmond Street

Las Vegas

' NV 89139

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address, fax number or email; of any changes in your contact/ mailing information within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Safety Engineer

Attachment: Certification Card

cc: File

Renewal - Card Attached (Revised 10/24/2012)





Pat Quinn, Governor
LaMar Hasbrouck, MD, MPH, Director

525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • www.idph.state.il.us

4/17/2013

MICHAEL BATTEN
8240 EDMOND STREET
LAS VEGAS, NV 89139

ASBESTOS PROFESSIONAL LICENSE ID NUMBER: 11092

Enclosed is your Asbestos Professional License that expires 05/15/2014

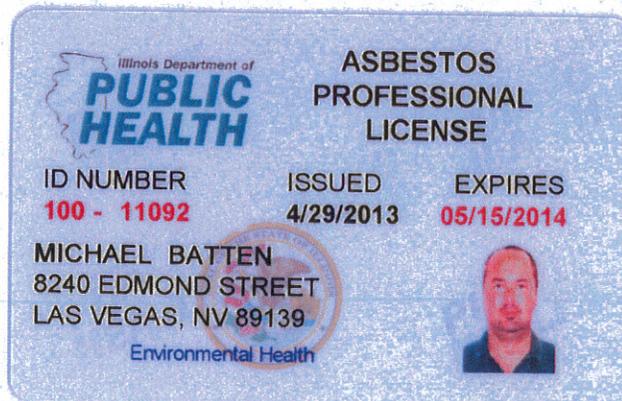
CERTIFICATE EXPIRATION DATE

INSPECTOR

4/4/2014

If you have any questions or need further assistance, contact the Asbestos Program at (217)782-3517 or fax (217)785-5897.

Our WEB address is <http://www.idph.state.il.us/envhealth/ehhome.htm>



State of Nevada



Department of Conservation and Natural Resources Division of Environmental Protection

This is to certify that

MICHAEL J BATTEN

having given satisfactory evidence of the necessary qualifications as required by the Nevada Revised Statute 459.400 to 459.600, inclusive, and Nevada Administrative Code 459.970 to 459.9729, inclusive, has been granted certification as a

Environmental Manager

in the State of Nevada

In testimony whereof, witness the signature of the Administrator and the Seal of the State of Nevada.

1782

Certification Number

August 31, 2015

Expiration Date

A handwritten signature in cursive script, appearing to read "Colleen Cripps".

Colleen Cripps, Ph.D. Administrator

STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF INDUSTRIAL RELATIONS
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
ASBESTOS CONTROL PROGRAM
DATE 03/27/13 LICENSE NO. IJPM-0655

**THE ASBESTOS ABATEMENT CONSULTANT NAMED BELOW IS LICENSED
UNDER THE PROVISIONS OF CHAPTER 618 OF N.R.S. AND N.A.C. THIS LICENSE
EXPIRES 03/27/14**

J Michael Batten
Geotek Inc
6835 S Escondido Street
Las Vegas, NV 89119

National Registry of Environmental Professionals

Be it known to all persons that the following individual pursuant to the requirements for education, experience and examination established by the National Registry of Environmental Professionals is entitled to all of the rights and privileges by the body and to be duly registered by it.

This is to certify that

Michael J Batten

is a

Registered Environmental Property Assessor

This certificate will remain valid only if it bears the seal of the current year, unless revoked, suspended or invalidated by order of the Board of Directors of the National Registry of Environmental Professionals.



Witness our hand

06/15/2013

This Day

Richard G. Young, Ph.D.
Executive Director

Registration Number: _____

REPA 113162

WESTERN REGIONAL LEAD TRAINING CENTER
AT THE UNIVERSITY OF CALIFORNIA, SAN DIEGO
15090 AVENUE OF SCIENCE • SAN DIEGO, CA 92128 • 1-800/572-LEAD

This is to verify that

J. BATTEN

has successfully completed 24 hours of instruction in

LEAD INSPECTOR TRAINING



05/09/94 - 05/11/94

Date

A handwritten signature in cursive script, reading "David W. Carey".

David Carey, Director
Western Regional Lead Training Center



Certificate No.

I 0240

**UCSD Extension
University of California, San Diego**

This is to verify that

J. Michael Batten

has completed 8 hours in the course

Risk Assessment Protocol for Lead Contamination

with the Environmental Training Center

OCTOBER 31, 1994

Date

A handwritten signature in cursive script, reading "David W. Carey".

David W. Carey, Director
Department of Environmental Management

**M&C Environmental Training
AHERA Accreditation ID Card**

Name: Michael Batten
Course: Inspector Ref.
Date: March 14, 2013
Certification 33699 IR
Expiration: March 14, 2014
(510) 525 - 1388

**M&C Environmental Training
AHERA Accreditation ID Card**

Name: Michael Batten
Course: Management Planner Ref.
Date: March 14, 2013
Certification 33714 PR
Expiration: March 14, 2014
(510) 525 - 1388

**M&C Environmental Training
AHERA Accreditation ID Card**

Name: J. Michael Batten
Course: Contractor/Supervisor Ref.
Date: September 6, 2014
Certification 34572 PR
Expiration: September 6, 2014
(510) 525 - 1388

**M&C Environmental Training
AHERA Accreditation ID Card**

Name: J. Michael Batten
Course: Project Designer Ref.
Date: September 4, 2014
Certification 34542 DR
Expiration: September 4, 2014
(510) 525 - 1388



This is to Certify that
Michael Batten
Has Satisfactorily Completed Training in Accordance
with Applicable Rules and Regulations
Asbestos Building Inspector Refresher

Completed: 4/4/2013 Expires: 4/4/2014

Certificate: BIR1304041190

2013

Occupational Training & Supply, Inc.
7233 Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900

OSHA

002340551



U.S. Department of Labor
Occupational Safety and Health Administration

Michael Batten

has successfully completed a 10-hour Occupational Safety and Health
Training Course in

Construction Safety & Health

Kenner Costen

(Trainer)

12/12/09

(Date)



Gary Sheppard, P.E.

Senior Engineer

Education

BS in Geotechnical Engineering, University of Arizona, 1980

Registrations

- State of Arizona P.E. # 24027

Professional Affiliations

American Council of Engineering Companies of Arizona

American Public Works Association-
President of Phoenix Chapter 2010

Arizona Association of Economic Development-Valley Partnership

Arizona Airport Association

American Society of Civil Engineers

Society of American Military Engineers-President 1994

Arizona Association of County Engineers

Professional Experience

Mr. Sheppard, P.E. is a senior engineer with GeoTek with over 30 years experience. His experience encompasses a wide variety of projects including the design of shallow and deep foundations for highways, bridges and a wide variety of residential, retail and commercial buildings. Mr. Sheppard has experience with design of flexible and rigid pavements for airports and highways ranging from local collector streets to mainline urban freeways. He has been involved in the design and construction of earth dams, tailings impoundments and reservoirs involving analyses for slope stability, scour, seepage and sediment transport. He has experience with the design, installation and monitoring specialized geotechnical instrumentation, particularly for tunnels and excavation slopes. He has conducted geophysical investigations including seismic refraction, resistivity, ground penetrating radar and gravity surveys. Mr. Sheppard has also designed and implemented compaction, chemical and contact grouting programs for ground stabilization associated with highways, tunnels and open channels. He has also conducted numerous Phase I and Phase II environmental site assessments and has provided remediation oversight for leaking underground storage tanks, surface spills and general soil and groundwater contamination. In addition to his technical experience, Mr. Sheppard has spearheaded client business development activities encompassing the creation and maintaining of professional relationships within the private and public sector for teaming relationships, contract negotiations and dispute resolution.

Professional History

Senior Engineer, GeoTek, Inc., 2013

Business Development Manager, SAECO 2011-2013.

Principal Engineer/Business Development, Ninyo and Moore Geotechnical-Phoenix, 2003-2011

Manager of Client Services, AMEC Earth & Environmental, 1991 to 2003

Senior Geotechnical Engineer, AMEC Earth & Environmental, 1984 to 1991

Additional information available upon request.