PHASE I ENVIRONMENTAL SITE ASSESSMENT
NON-FEDERAL PARCEL, TURKEY CREEK
(JX BAR RANCH)
GILA COUNTY, ARIZONA

Resolution Copper

Prepared for:

RESOLUTION COPPER

Attn: Ms. Casey McKeon
102 Magma Heights Superior
Arizona 85173-2523

Project Number: 807.118

Date: October 2016

Registered Professional Engineer (Civil)
CERTIFICATE NO.
22999
MARK F.
TAYLOR
Date signed 10/14/16
ARIZONA U.S.A.

EXPIRES 9/30/2019

WestLand Resources

WestLand Resources, Inc. • 4001 E. Paradise Falls Drive • Tucson, Arizona 85712 • 520•206•9585

TABLE OF CONTENTS

EXECUTIVE SUMMARY ES-1
1. INTRODUCTION 1
1.1. Purpose 1
1.2. Scope of Services 2
1.3. Limitations and Exceptions 2
1.4. Special Terms and Conditions 3
1.5. User Reliance 3
1.6. Continued Viability 3
2. SITE DESCRIPTION 4
2.1. Location and Legal Description 4
2.2. Site and Vicinity General Characteristics 4
2.3. Current Use of the Property 4
2.4. Description of Structures, Roads, and Other Improvements on the Site 4
2.5. Current Uses of Adjoining Properties 4
3. USER-PROVIDED INFORMATION 5
3.1. Title Records 5
3.2. Environmental Liens or Activity and Use Limitations 5
3.3. Specialized Knowledge 5
3.4. Commonly Known or Reasonably Ascertainable Information 5
3.5. Valuation Reduction for Environmental Issues 6
3.6. Reason for Performing Phase I 6
3.7. Other 6
4. RECORDS REVIEW 7
4.1. Environmental Record Sources 7
4.2. Prior Environmental Reports 7
4.3. Physical Setting 7
4.3.1. Topography 7
4.3.2. Soils 8
4.3.3. Geology 8
4.3.4. Hydrology 9
4.3.5. Hydrogeology 9
4.4. Historical Use Information on the Property and Adjoining Properties 10
4.4.1. Historical Topographic Maps 10
4.4.2. Historical Aerial Photographs 11
4.4.3. Property Tax Files & Land Records 12
4.4.4. Local Street Directories 12
4.4.5. Sanborn Fire Insurance Maps 12
4.4.6. Other Historical Sources 13
5. SITE RECONNAISSANCE 14
5.1. Methodology and Limiting Conditions 14
5.2. Indications of Past Uses of the Property 14
5.3. Exterior Observations 15

5.3.1. Hazardous Substances and Petroleum Product Containers in Connection with Identified Uses....15
5.3.2. Hazardous Substance and Petroleum Product Containers Not in Connection with Identified Uses....15
5.3.3. Storage Tanks (Aboveground and Underground)....15
5.3.4. Unidentified Substance Containers....15
5.3.5. Drums....15
5.3.6. Odors....15
5.3.7. Pools of Liquid, Pits, Ponds, or Lagoons....15
5.3.8. Wastewater....16
5.3.9. Septic Systems....16
5.3.10. Wells....16
5.3.11. Stained Soil or Pavement....16
5.3.12. Stressed Vegetation....16
5.3.13. Solid Waste Disposal....16
5.3.14. PCB Equipment....16
5.4. Interior Observations....17
6. INTERVIEWS....18
6.1. Interviews with Owner....18
6.2. Interviews with Occupants....18
6.3. Interviews with Local Government Officials....18
6.4. Interviews with Others....19
7. FINDINGS AND OPINIONS....20
8. CONCLUSION....23
9. DEVIATIONS....24
10. ADDITIONAL SERVICES....25
11. QUALIFICATIONS AND SIGNATURE OF ENVIRONMENTAL PROFESSIONALS....26
12. REFERENCES....27

FIGURES

(follow text)

Figure 1. Vicinity Map
Figure 2. Aerial Overview

APPENDICES

Appendix A. Site Photographs
Appendix B. User Questionnaire & Owner Questionnaire:
- Mr. Sterling Hundley, Resolution Copper

Appendix C. Titles and Encumbrances
Appendix D. ERS Environmental LienSearch Report with Recorded Deeds
Appendix E. ERS Area Report
Appendix F. Historical Topographic Maps
- 1907 Topographic Map
- 1964 Topographic Map
- 1994 Topographic Map
- 2004 Topographic Map
- 2014 Topographic Map

Appendix G. Historical Aerial Photographs
- 1947 Aerial Photograph
- 1953 Aerial Photograph
- 1962 Aerial Photograph
- 1971 Aerial Photograph
- 1980 Aerial Photograph
- 1992 Aerial Photograph
- 2003 Aerial Photograph
- 2009 Aerial Photograph
- 2016 Aerial Photograph

Appendix H. Yavapai County Assessor Property Maps and Detail Records
Appendix I. Résumés

EXECUTIVE SUMMARY

WestLand Resources, Inc. (WestLand) was contracted by Resolution Copper Mining LLC (the "User") to perform a Phase I Environmental Site Assessment (ESA) for approximately 147 acres referred to as Turkey Creek, also known as the JX Bar Ranch and J Slash X Ranch ("the Property"). The Property is located in Sections 3 and 4 of Township 7 North, Range 12 East, relative to the Gila and Salt River Meridian, in Gila County, Arizona (**Figure 1**). The Gila County Assessor's Parcel Number (APN) for the Property is 201-05-001.

An aerial photograph showing the Property boundaries is included as **Figure 2**. Photographs depicting the site and vicinity are provided in **Appendix A**.

This Phase I ESA has been completed in accordance with the guidelines provided in the American Society for Testing and Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property* (ASTM E 2247-08). The purpose of this work was to identify the presence or potential presence of recognized environmental conditions (RECs) resulting from past or present activities. According to ASTM guidelines, a REC is defined as "…the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property."

Findings

Environmental Liens/Activity and Use Limitations. On June 27, 2016, WestLand engaged Environmental Record Search (ERS), to conduct a search of available land title records for environmental liens and activity and use limitations (AULs) for the Property. A search was completed for Gila County APN 201-05-001 and no records of environmental liens or AULs associated with the Property were identified. There were no title records reviewed that indicated a REC in connection to the Property.

Records Review:

Environmental Records. WestLand contracted with ERS to conduct an electronic search of regulatory agency databases for references to the Property and surrounding lands. The database search was conducted on June 23, 2016, by conducting a search from the boundaries of the Property to the minimum search distance recommended by the ASTM standard. The Property did not appear on any of the databases searched and there were not any database records within the ASTM-recommended distance of the Property boundaries. No REC were identified in connection to known government records in the vicinity of the Property.

Prior Environmental Report. A Phase I ESA for the Property was conducted by WestLand in 2004 (WestLand 2004a). The results of the 2004 Phase I ESA indicated that there was a low environmental risk associated with the Property and that no further investigation or remedial action were warranted at that time. No recognized environmental concerns were identified on the Property or on adjoining land.

Physical Setting. The Property is located on the east side of the crest of the Sierra Ancha, in a rugged landscape of narrow canyons and mesas. The most notable landform feature of the Property are the streams (Turkey and Rock Creeks) and the canyon slopes and cliffs cut by these streams. Turkey Creek passes through the southern portion of the Property and, at the southeastern corner of the Property, joins Bear Head Canyon. At their confluence, Rock Creek begins, extending to the northeastern corner of the Property. The elevation at the Property ranges from about 5,580 feet above mean sea level (amsl) at the top of the west slope near the western extreme of the Property to just under 5,200 feet amsl at the bottom of Rock Creek near the northeastern corner of the Property (WestLand 2004b).

Historical Use. The Property was formerly homesteaded, and development included a series of buildings and property improvements in the southern portion of the Property, including a house, barn, kitchen, storehouse, tool house, shop, well, and cultivated area. Many developed features were destroyed by fire. This homestead was initially associated with Elmer D. Boody. The Boody homestead later became known as the J Slash X Ranch. The site currently includes the remains of several structures, a well, a trail, a small apple orchard, and a small scatter of historical artifacts.

Site Reconnaissance. Between June 20 and June 23, 2016, WestLand visited the site to assess existing environmental conditions for the Property. Field observations were consistent with the findings of WestLand's historical review of and interviews about the Property and surrounding properties. Currently, the Property is not used for any focused purpose but is used for dispersed recreation such as hunting, camping, and off-highway vehicle use. The Property is characterized as mainly vacant open space that appears to have been used in the past for historical homesteading and grazing. Natural vegetation at the Property is re-establishing where it was previously disturbed. Developed features at the Property are limited. A dry-laid masonry well on the former homestead location was observed. The well appears to have been almost completely filled in with sediment or possibly trash and two rusted drums have been placed over it.

Interviews. Interviews were conducted with several individuals as part of this assessment:

- The report User and Property owner: Ms. Casey McKeon, representative for Swift Current Land and Cattle LLC, the land owner and a subsidiary of Resolution Copper Mining LLC;
- Government officials: Representatives from the Payson Fire Department and Southwestern Regional Office of the US Forest Service (USFS); and

- Two former Property owners: Mr. George Randall and Ms. Linda Ewing (interviewed in 2004; WestLand 2004).

No information provided through the interviews indicate the potential for a REC in connection to the Property.

Recognized Environmental Conditions

WestLand has performed this Phase I ESA in conformance with the scope and limitation of ASTM E 2247-08 for the Property. This assessment has revealed no evidence of RECs in connection with the Property.

1. INTRODUCTION

WestLand Resources, Inc. (WestLand) was contracted by Resolution Copper Mining LLC (the "User") to perform a Phase I Environmental Site Assessment (ESA) for approximately 147 acres referred to as Turkey Creek, also known as the JX Bar Ranch and J Slash X Ranch ("the Property"). The Property is presently under non-federal ownership (Swift Current Land & Cattle LLC, a subsidiary of Resolution Copper Mining LLC), but proposed as part of a land exchange with the U.S. Forest Service (USFS) under the Southeast Arizona Land Exchange and Conservation Act of 2013. The Property is located in Sections 3 and 4 of Township 7 North, Range 12 East, relative to the Gila and Salt River Meridian, in Gila County, Arizona (**Figure 1**).

1.1. PURPOSE

The purpose of this investigation was to conduct an assessment of the Property and surrounding areas to identify the presence or potential presence of recognized environmental conditions (RECs) potentially resulting in environmental impacts to the Property. According to the American Society for Testing and Materials (ASTM) E 1527-13 guidelines, a REC is defined as: …*the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property*. This term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies. Conditions determined to be *de minimis* are not RECs.

The results of an investigation may be utilized as part of the due diligence investigation for prospective property owners promulgated pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA, a.k.a. Superfund), the Superfund Amendments and Reauthorization Act of 1986 (SARA), and the Small Business Liability Relief and Brownfield's Revitalization Act of 2002 (the Brownfield Amendments). This ESA is intended to assist the User in satisfying the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations of CERCLA. In order to qualify for one of the Landowner Liability Protections, the report User must provide certain information to the environmental professional conducting the ESA. This information can be provided by completing the User Questionnaire. Failure to provide this information could result in a determination that the All Appropriate Inquiry is not complete. Additionally, the Property owner has continuing obligations, if applicable, to receive liability protections in addition to the All Appropriate Inquiry. The continuing obligations include: 1) compliance with land use restrictions; 2) not impeding the effectiveness or integrity of institutional controls; 3) taking reasonable steps to prevent releases; 4) providing assistance and access to the U.S. Environmental Protection Agency (EPA), state, or other parties conducting

response or restoration actions; 5) complying with CERCLA information requests and subpoenas; and 6) providing legally required notices.

1.2. SCOPE OF SERVICES

This ESA has been completed in accordance with the guidelines provided in the ASTM *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property* (ASTM E 2247-08). This standard satisfies the requirements of the EPA *All Appropriate Inquiry* provisions, which became effective November 1, 2006 (40 CFR Part 312). This protocol requires the review of readily available environmental records, historical and current land use, interviews with persons knowledgeable about the Property, and a field reconnaissance to observe on-site conditions and adjoining properties.

The User of this report has responsibilities for addressing some of the mandatory provisions of the standard. ASTM E 2247-08 Section 6 (User Responsibilities) describes tasks that will help identify the possibility of RECs in connection with the Property that do not require the expertise of an environmental professional, including checking title records for environmental liens and activity and use limitations (AULs). WestLand commissioned a title search for environmental liens and AULs on the User's behalf.

This ESA does not assess ASTM non-scope considerations, including asbestos-containing building materials, radon, lead-based paint, lead in drinking water, wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality (including vapor intrusion), biological agents, mold, or other nuisances.

1.3. LIMITATIONS AND EXCEPTIONS

This Phase I ESA evaluates potential sources of hazardous substances or petroleum products that could be considered a REC and a liability due to their presence in significant concentrations, or the potential for contamination migration through exposure pathways. Unless otherwise noted, this assessment did not include any testing or sampling of materials. This report is intended to provide further recommendations regarding potential RECs related to the Property; conclusive identification of hazardous substances and petroleum products can be accomplished only through sampling and laboratory analysis.

Field reconnaissance does not provide information regarding potential sources of contamination below the ground surface. However, in cases of subsurface contamination, aboveground indicators such as obvious stress to plant life or staining are noted. All findings are based on observations and information collected at one point in time and is based on conditions during the site visit. A change of those conditions may alter the findings and conclusions of this report.

A Phase I ESA cannot, within its scope of assessment, wholly eliminate uncertainty regarding the potential presence of RECs. WestLand believes that the information in this report is reliable; however, WestLand cannot guarantee that the information provided by all the sources contained in this report is complete and accurate. This report is intended to decrease, but not eliminate, uncertainty regarding the potential for RECs in connection with a property given reasonable limits of cost and time, and in a manner consistent with the customary practices of the environmental consulting industry, under similar circumstances at the time services were performed and in similar localities. It should be noted that the conditions at the Property could change as a result of natural processes or be altered by human activities at the Property and/or nearby sites.

1.4. Special Terms and Conditions

No special terms or conditions are associated with this report.

1.5. User Reliance

This Phase I ESA has been prepared for use by Resolution Copper Mining LLC. This ESA may not be relied upon by any other person or entity without the written consent of WestLand.

1.6. Continued Viability

Due to the nature of Phase I ESA inquiries, their useful life is limited. ASTM E 2247-08 guidelines require that certain components of a Phase I ESA be completed less than 180 days prior to the date of acquisition or (if no acquisition is involved) the intended transaction. The following components of the Phase I ESA are presumed valid only within 180 days prior to the date of acquisition or other intended transaction:

- Interviews
- Searches for environmental liens
- Government records review
- Site reconnaissance
- Declaration by the environmental professional

Other components of the Phase I ESA are valid for one year. The above-listed components can be separately updated in order to eliminate redundant environmental due diligence efforts within one year. After one year has passed, all Phase I ESA components should be redone. The prior ESA report may be used as a reference during completion of the new investigation and analysis.

2. SITE DESCRIPTION

This section describes the location, general characteristics, and current uses of the Property. The current uses of adjoining properties are also described.

2.1. LOCATION AND LEGAL DESCRIPTION

The Property is situated approximately 20 miles southeast of Payson, Arizona. It is within a private landholding surrounded by USFS, Tonto National Forest lands. The Property is located in Sections 3 and 4 of Township 7 North, Range 12 East, Gila and Salt River Meridian, in Gila County, Arizona. The western portion of the Property extends minimally into Section 4 (**Figure 1**). The Gila County Assessor's Parcel Number (APN) for the Property is 201-05-001.

2.2. SITE AND VICINITY GENERAL CHARACTERISTICS

The Property is located in the highlands of the Sierra Ancha Mountains, on the eastern side of the crest of the range in Turkey and Rock Creek canyons, principally on the northern and western slopes but extending to the canyon floor. The Property is located within the streambed and adjacent upland areas along Turkey Creek, which roughly follows the southern and eastern parcel boundaries. The Property is accessible by multiple forest roads, which reach the western corner of the parcel and a primitive road "jeep trail" that crosses the Property. There are no developed campgrounds in the vicinity of the Property, but nature viewing, hiking, camping, and picnicking likely occur at the Property and are available recreational opportunities in the public lands surrounding the Property.

2.3. CURRENT USE OF THE PROPERTY

The Property is generally undeveloped open space. There is no evidence of current human occupation or intense recreational use of the site, though there is evidence that recreational camping occurs.

2.4. DESCRIPTION OF STRUCTURES, ROADS, AND OTHER IMPROVEMENTS ON THE SITE

Developed features at the Property are limited. Roads and jeep trails are the only apparent current improvements at the Property. The former homestead now consists of the remains of several structures, a well, a trail, a small apple orchard, and a small scatter of historical artifacts.

2.5. CURRENT USES OF ADJOINING PROPERTIES

Land use in all directions surrounding the Property is characterized by open space that is used for dispersed recreation purposes. Designated pack trails are on the federal agency-administered land to the south and east of the Property, as well as on- and off-road jeep trails. A small tin shack is located on land adjoining the southwest portion of the Property. The shack was vacant at the time of the site reconnaissance.

3. USER-PROVIDED INFORMATION

The report User is Resolution Copper Mining LLC who provided relevant information about the Property on May 12, 2016. Swift Current Land and Cattle LLC is the land owner and a subsidiary of Resolution Copper Mining LLC. The User and Owner representative is Ms. Casey McKeon. A copy of the User and Owner Questionnaires are provided as **Appendix B.**

3.1. TITLE RECORDS

The report User provided copies of title information in connection to the Property which was transmitted from the title company to Swift Current Land and Cattle LLC on February 15, 2006. This included an ALTA Owners title policy dated February 8, 2004 and amended December 15, 2005 (**Appendix C**). The policy also includes accompanying title insurance requirements and exceptions that typically list known land encumbrances (i.e., taxes, deed restrictions, easements, liens) and may provide an indication of the potential for contamination at the Property. Based on WestLand's review, the listed standard and specific encumbrances do not indicate the release or threat of a release of a hazardous material or petroleum product at the Property.

3.2. ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

The User is not aware of any environmental liens or AULs for the Property.

WestLand engaged Environmental Record Search (ERS), to conduct a search of available land title records for environmental liens and AULs on the Property on behalf of the User. A search for environmental liens and AULs was completed on June 27, 2016; no records of environmental liens or AULs associated with the Property were identified (**Appendix D**). Copies for the deeds associated with the Property are included in the environmental lien and AULs report.

The Special Warranty Deed for the Property was executed November 28, 2005, and recorded the following month, conveying ownership from Fred M. Randall and Karen Randall to Swift Current Land & Cattle LLC. A copy of the deed is included with **Appendix D**.

3.3. SPECIALIZED KNOWLEDGE

The User provided no information regarding specialized knowledge regarding the Property beyond information described as "commonly known" or "reasonable ascertained", see below.

3.4. COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

The User reported that the Property was used as a residence and for limited cattle grazing regularly into the latter half of the 20th century. The User reported that the Property is currently vacant and

used for unauthorized dispersed recreational activities by persons accessing the site from adjacent public lands. They are not aware of the use of any chemicals or releases or environmental cleanups at the Property. No other commonly known or reasonably ascertainable information relevant to potential RECs was provided by the User.

3.5. VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

The User reports there is no information indicating the value of the Property has been reduced as a result of environmental issues.

3.6. REASON FOR PERFORMING PHASE I

The User states the Phase I is being performed to identify RECs requiring additional investigation relating to a land exchange property transaction between the USFS and Resolution Copper Mining LLC.

3.7. OTHER

Based on the User's knowledge of, and experience related to the Property, no obvious indicators point to the presence or likely presence of contamination on the Property of which the User is aware. No other information relevant to potential RECs was provided by the User.

4. RECORDS REVIEW

WestLand reviewed a variety of regulatory records to determine if any past uses of the Property or uses within adjoining areas may have led to RECs on the Property.

4.1. ENVIRONMENTAL RECORD SOURCES

WestLand contracted with ERS to conduct an electronic search of regulatory agency databases for references to the Property and surrounding lands. The database search (Rec Check Area Report Results) was conducted on June 23, 2016, and included standard and additional federal, tribal, state, local, and supplemental database records, as well as ERS proprietary database records. The regulatory agency databases were queried by conducting a search from the boundaries of the Property to the minimum search distance recommended by the ASTM standard. A copy of the ERS environmental reports that describes the databases searched, search distances, record details for the search results, and the dates the databases were last updated are provided in **Appendix E**.

The Property did not appear on any of the databases searched and there were not any database records for other properties within the ASTM-recommended distances of the Property boundaries.

4.2. PRIOR ENVIRONMENTAL REPORTS

A Phase I ESA for the Property was conducted by WestLand in 2004 (WestLand 2004a). The results of the 2004 Phase I ESA indicated that there was a low environmental risk associated with the Property and that no further investigation or remedial action were warranted at that time. No RECs were identified on the Property or on adjoining land.

4.3. PHYSICAL SETTING

The Property's physical setting was evaluated by WestLand to gain a comprehensive understanding of the Property's geophysical characteristics. These geophysical characteristics, including surface topography, soils, geology, hydrology, and hydrogeology, may relate to the potential migration of hazardous substances and petroleum products.

4.3.1. Topography

Regionally, the Property lies within the Central Highlands physiographic province, a transitional zone between the Basin and Range and Colorado Plateau provinces in central Arizona. It is situated on the east side of the crest of the Sierra Ancha Mountains, in a rugged landscape of narrow canyons and mesas. Surrounding mountain peaks rise to over 6,000 feet in elevation, with some 3,300 feet above a valley just 12.5 mi (20 km) west of the Property (WestLand 2004b).

The Property itself is located within the streambed and adjacent upland areas along Turkey Creek and Rock Creek. Turkey Creek passes through the southern portion of the Property and, at the southeastern corner of the Property, joins Bear Head Canyon. At their confluence, Rock Creek begins, extending to the northeastern corner of the Property. The Property includes gently sloping areas within and along the stream, moderate to steep slopes along the northern canyon side, and vertical cliffs in selected areas of exposed bedrock along Rock Creek (WestLand 2004b, 2004c). Elevations range from approximately 5,580 feet above mean sea level (amsl) at the western extreme down to approximately to 5,160 feet amsl along the northern Property boundary in the stream bed.

4.3.2. Soils

The Arizona Land Resource Information System General Soils Map indicates that the Turkey Creek parcel is located within the Roundtop-Tortugas-Jacks soil association (MH4) (ALRIS 1975). Soils of this association are described as well-drained and occur on limestone and sandstone mountains just south of the Mogollon Rim. Roundtop soils make up about 35 percent, Tortugas soils 35 percent, Jacks soils 15 percent, and minor areas of rock outcrop and associated soils 15 percent. Soils of this association have good potential for woodland and rangeland wildlife habitat and are characterized as having shallow and moderate depths to bedrock, slow permeability in the Roundtop and Jacks soils, and steep slopes in some areas of all soils (Hendricks 1985).

4.3.3. Geology

The surface geology of the Property includes early to middle Tertiary conglomerate (Tco) on the canyon's upper slopes, middle Proterozoic Dripping Springs Quartzite (Ydu) adjacent to the stream bed in the northeastern portion (i.e., exposed cliff faces), and Quaternary (Holocene) alluvium (Qy) within the canyon bottom (Skotnicki 1999). The majority of the Property is covered with Tertiary conglomerate, in the form of highly weathered, rounded ridges. This unit contains medium-bedded, moderately consolidated conglomerate interbedded with moderately sorted sandstone, pebble, and cobble layers. The cliffs along the west side of Rock Creek on the Property are exposures of the upper member of Dripping Springs Quartzite. The quartzite forms a regional plateau that dips very gently to the north-northeast; in some places, this plateau is horizontal (WestLand 2004b). This unit is composed of thinly bedded light tan-yellow argillite and fine-grained quartzite. Aged erosion and accretion is evident through the clearly active stream channel within the Property (WestLand 2004a).

Bedrock within the Property is covered with a thin veneer of soil on uplands, with a limited amount of alluvium in the channel bottom and talus or colluvium on the slopes. The JX Ranch homestead site is on the largest span of alluvium on the Property, on the inside of a bend of Turkey Creak near the southern boundary. The height of the alluvium surface in this area is about 3 to 5 feet above the channel bottom. Another large span of alluvium is present on the west side of the Rock Creek channel near the northeastern corner of the Property

One fault is located in just south of the Property and crosses both Bear Head Canyon and Turkey Creek (Skotnicki 1999). Additional faults in the vicinity occur west of the Property near Pine and Chalk mountains and east and southeast of the Property near Copper Mountain.

4.3.4. Hydrology

Regionally, the Property lies in the Rock Creek sub-basin of the Tonto Creek Basin within the greater Salt River watershed that ultimately discharges into Roosevelt Lake. Turkey Creek originates on the north slopes of Picture Mountain at 6,439 feet amsl some 3 miles southwest of the Property and descends to just below 5,200 feet amsl at its confluence with Bear Head Canyon (ADWR 2014). From the confluence of Turkey Creek and Bear Head Canyon, the channel bed of Rock Creek is relatively level, dropping less than 40 feet during the next 0.5 mile stretch within the Property.

The Property extends north and west from Turkey Creek onto the northern side of the Turkey Creek canyons; several un-named ephemeral tributaries to the stream cross this slope. From the south, the stream in Bear Head Canyon reaches a confluence with Turkey Creek near the southeastern corner of the Property; this stream also appears to be intermittent. Downstream of this confluence (and continuing along the eastern Property boundary), the stream is identified as Rock Creek. Rock Creek flows generally north to Spring Creek, which flows north and west before discharging into Tonto Creek.

Water quality in this reach of Turkey Creek is not assessed by the Arizona Department of Environmental Quality (ADEQ); there is no designated use or known water quality conditions at the Property (ADEQ 2016).

The National Wetlands Inventory map identifies no wetlands within the Property (USFWS 2015). Mesoriparian habitat is present along the Turkey Creek stream channel (WestLand 2004c). Facultative wetland species were present, but minimal obligate wetland species (a few introduced willows) and no hydric soils were observed. No wetlands were identified on the Property.

The area has been mapped by the Federal Emergency Management Agency as Flood Zone D, an area of undetermined flood hazards.

4.3.5. Hydrogeology

The Property is located in the Salt River Lakes sub-basin within the larger Salt River groundwater basin (ADWR 2009). This basin covers approximately 200 square miles within Gila County. The region is bounded on the west and southwest by the Sierra Ancha and Superstition mountains. Groundwater flow direction has not been characterized in the Salt River Lakes sub-basin; however, the potentiometric surface of shallow groundwater typically mimics surface topography at a

diminished scale. At the Property, shallow groundwater likely flows to the northeast, generally following the course of Turkey Creek.

The Salt River Lakes sub-basin contains mostly igneous granitic, metamorphic, and sedimentary rocks. Basin-fill materials that accumulated in the larger valleys comprise the unconsolidated sediments. Groundwater occurs in all of these rock units. The groundwater basin is predominately drained by Turkey Creek and other perennial tributaries. Unconsolidated sands and gravels within the floodplains of these streams and washes from an alluvial aquifer that is generally quite productive. Recharge to the aquifer occurs primarily along mountain fronts and from streams and lake infiltration (ADWR 2015).

The Arizona Department of Water Resources (ADWR) Well Registry spatial database was queried to review any data for wells within the boundaries of the Property. There are no registered groundwater wells on the Property (ADWR 2015). The search area was expanded to a 5-mile radius of the Property and six registered wells were identified. Records for these show water levels in this area are relatively shallow, at less than 200 feet below the surface. The median well yield from large wells (greater than 10-inch in diameter) is 170 gallons per minute (gpm).

There is one open, hand-dug well to the northeast of the homestead site on the Property (WestLand 2004b). It has dry-stacked, loose rock casement and the original depth of the well could not be ascertained during site visits. The well was likely completed in unconsolidated materials (rather than bedrock) and accesses shallow groundwater in a saturated alluvial aquifer adjacent to Turkey Creek (WestLand 2004b).

No groundwater quality data for the Property or vicinity was identified during the course of this inquiry.

4.4. Historical Use Information on the Property and Adjoining Properties

The purpose of reviewing historical sources is to develop a history of the previous uses of a property and surrounding area in order to help identify past uses that may have led to RECs in connection with the Property. According to the ASTM standard, obvious uses of a property shall be identified from the present back to the property's first developed use, or back to 1940, whichever is earlier. This requires reviewing only as many standard historical sources as are reasonably ascertainable and likely to be useful.

4.4.1. Historical Topographic Maps

WestLand reviewed USGS topographic maps of the Property and its vicinity dated 1907, 1964, 1994, 2004, and 2014 (**Appendix F**). USGS topographic map coverage for the Property is provided on the Roosevelt, Copper Mountain, and Theodore Roosevelt Lake quadrangles, at various scales.

Topographic maps depict both natural and developed features, including wells, structures, and other indications of historical use. The summary below presents WestLand's review of the identified mapped features on or near the Property in chronological sequence.

The 1907 Roosevelt 15-minute quadrangle (1:125,000 scale) depicts much of the Property as undeveloped land with a wash passing through the southern and eastern portions of the Property. There is a trail along the east boundary of the Property. Developed features surrounding the Property are generally limited to trails or dirt roads, and three structures (one on adjoining land southwest of the Property and two other structures to the north of the Property along the wash.

The 1964 Copper Mountain 7.5-minute quadrangle (1:24,000 scale) depicts the Property in the same conditions as the 1907 map with the exception of the addition of a new structure at "J Slash X Ranch" and the addition of a trail that leads to the J Slash X Ranch from the south. The trail toward the southwestern portion of the Property that accesses the structure on the Property is depicted as an unimproved road. A structure is shown to the southwest of the Property (apparent on the 1907 map); it is connected to the J Slash X Ranch by an improved roadway. New unimproved roadways are shown traveling northwest and northeast of the Property. A landing strip is identified to the northwest of the Property. The two structures north of the Property shown in the 1907 map are not depicted but maybe further north.

The 1994 Theodore Roosevelt Lake 30-minute by 60-minute quadrangle (1:100,000 scale) provides less detail than the prior maps. The structure on the Property is not depicted, nor are some of the trails and roads surrounding the Property. The landing strip is still shown northwest of the Property.

The 2004 Copper Mountain 7.5-minute quadrangle (1:24,000 scale) provides more detail than the 1994 quadrangle. The J Slash X Ranch including a structure is depicted, and there are unimproved roads through the southern portion of the Property. The unimproved road and structure southwest of the Property are depicted. The landing strip is no longer depicted, nor are the roadways that were shown to the northeast of the Property in the 1964 map.

The 2014 Copper Mountain 7.5-minute quadrangle (1:24,000 scale) provides an aerial view along with topographic information. The roadways on the Property and to the south, west, and northwest are depicted. No structures are depicted on this quadrangle.

4.4.2. Historical Aerial Photographs

WestLand obtained nine historical aerial photographs depicting the Property and vicinity dating from 1947, 1953, 1962, 1971, 1980, 1992, 2003, 2009, and 2016 (**Appendix G**). WestLand reviewed the maps for evidence of anthropomorphic disturbance and to identify any historical land uses that might

have involved the use, treatment, storage, disposal, or generation of hazardous substances, or petroleum products.

Development at the Property is extremely limited. None of the aerial maps definitively display developed features at the Property, though a cleared area toward the northeastern corner and a cleared area at the southern end of the Property are visible. A feature that could be a dirt roadway enters the Property from the southwest corner. Dirt roadways can be seen in all photographs on land surrounding the Property. The locations of these roads correspond to those depicted in the quadrangle maps. Beginning with the 1962 aerial photograph, the landing strip is depicted in the location corresponding to that shown in the quadrangle maps.

4.4.3. Property Tax Files & Land Records

WestLand obtained the property tax maps for the Property and adjoining areas from the Gila County Assessor. The Property map and assessor parcel details are included in **Appendix H.** This map provides the parcel number (APN 201-05-001). The parcel details provide the property sales history and indicate that the Property is vacant land with no assessed buildings or other improvements. The assessor data also indicates farming and grazing activities at the Property. The assessor parcel data refers to a registered patent #627759 (HES 151); this was registered to a prior landowner (Elmer Boody).

Based on Bureau of Land Management (BLM) data researched by WestLand archeologists, the Property coincides with a historical land patent on file. In 1918, Mr. Elmer D. Boody applied for a Serial Patent for 146.95 acres of land in Sections 3 and 4 of Township 7 North, Range 12 East, under the Homestead Act of May 20, 1862, "To Secure Homesteads to Actual Settlers on the Public Domain" (BLM 2016).

4.4.4. Local Street Directories

Based on the lack of development in the immediate vicinity of the Property, WestLand did not conduct a city directory search.

4.4.5. Sanborn Fire Insurance Maps

Sanborn Fire Insurance Maps typically cover development in the first half of the 20th century. Considering the lack of development at the Property, WestLand did not commission a search for these maps. It is likely no coverage for the Property is available.

4.4.6. Other Historical Sources

WestLand reviewed a recent cultural resource inventory report for the Property that includes archaeological research and results of prior records searches (WestLand 2016). The report notes that a 1916 Homestead plat depicts a series of buildings and property improvements in the southern end of the Property, including a house, barn, kitchen, storehouse, tool house, shop, well, and cultivated area. This plat depicts the homestead of Elmer D. Boody. The Boody homestead later became known as the J Slash X Ranch. This ranch is depicted in the same location as the Boody homestead on the 1964 Copper Mountain topographic map. The site currently includes the remains of several structures, a well, a trail, a small apple orchard, and a small scatter of historical artifacts.

5. SITE RECONNAISSANCE

On June 20 through June 23, 2016, WestLand staff Mr. Jeff Charest performed a field reconnaissance to assess existing environmental conditions for the Property. Photographs documenting pertinent features are provided in **Appendix A**.

5.1. METHODOLOGY AND LIMITING CONDITIONS

Prior to conducting the site reconnaissance, WestLand reviewed current and historical aerial photographs and topographic maps (described above) to identify the location of any suspect areas, including roadways, cleared areas, disturbed soils, and structures. Areas of known concentrated human activity were assessed in more detail because these areas presented the greatest potential for impacts by hazardous materials and petroleum products.

During the site reconnaissance, WestLand evaluated the suspect areas of site disturbance through pedestrian surveys. WestLand's reconnaissance included the Property, as well as observations of the adjoining properties from publicly accessible areas. Field observations were consistent with the findings of WestLand's historical review of the Property and surrounding properties.

Field reconnaissance does not provide information regarding potential sources of contamination below the ground surface. However, in cases of subsurface contamination, aboveground indicators such as obvious stress to plant life or staining are noted. All findings are based on observations and information collected at one point in time and is based on conditions during the site visit. A change of those conditions may alter the findings and conclusions of this report.

5.2. INDICATIONS OF PAST USES OF THE PROPERTY

The Property has historically been used for homesteading. As described previously, the site currently includes the remains of several structures, a well, a trail, a small apple orchard, and a small scatter of historical artifacts. There has been no recent use of the Property by the current owner, but it is expected that dispersed recreational activities (i.e., camping and hunting) on adjacent public lands have continued onto the private property. An overview of the Property is shown on **Photo 1, Appendix A**. A former homestead was mapped as located on the Property (**Photos 2 – 4**, **Appendix A**; **Figure 3**).

5.3. EXTERIOR OBSERVATIONS

5.3.1. Hazardous Substances and Petroleum Product Containers in Connection with Identified Uses

No hazardous substances and petroleum product containers in connection with identified uses were observed at the Property or on land immediately adjoining the Property.

5.3.2. Hazardous Substance and Petroleum Product Containers Not in Connection with Identified Uses

No hazardous substances and petroleum product containers not in connection with identified uses were observed at the Property or on land immediately adjoining the Property.

5.3.3. Storage Tanks (Aboveground and Underground)

No indications of above- or underground storage tanks potentially used for hazardous substances or petroleum products were observed on the Property or on adjoining properties.

5.3.4. Unidentified Substance Containers

No unidentified substance containers were observed on the Property or on adjoining properties during the site reconnaissance.

5.3.5. Drums

Two rusted drums were observed at the Property at the site of the hand-dug well (**Photo 5, Appendix A**). There was no indication that hazardous material or petroleum product had leaked from these drums.

5.3.6. Odors

No strong, pungent, or noxious odors were detected on the Property or on adjoining properties during the site reconnaissance.

5.3.7. Pools of Liquid, Pits, Ponds, or Lagoons

No pools of liquid, pits, ponds, or lagoons were observed on the Property or on adjoining properties. Furthermore, no such features were observed in connection with waste disposal or treatment.

5.3.8. Wastewater

No features associated with wastewater storage and disposal were observed during the site reconnaissance.

5.3.9. Septic Systems

There is no indication that septic systems are present on the Property.

5.3.10. Wells

A dry-laid masonry well on the former homestead location was observed. The well appears to have been almost completely filled in with sediment or possibly trash and two rusted drums have been placed on it (**Photo 5, Appendix A**).

5.3.11. Stained Soil or Pavement

No stained soil or pavement was noted.

5.3.12. Stressed Vegetation

Vegetation across the Property appeared to be in good health. There was no indication of stressed vegetation on the Property or adjoining properties likely attributed to hazardous substances, or petroleum products.

5.3.13. Solid Waste Disposal

The Resource Conservation Recovery Act (RCRA) was enacted by Congress in 1976 and amended in 1984. RCRA's primary goal is to protect human health and the environment from the potential hazards of waste disposal. Unauthorized solid waste disposal provides the potential for hazardous and regulated substances to impact a property in the absence of waste-generating activities.

While scattered trash was found on the Property, the Property appears to be generally clean of solid waste (**Photo 6, Appendix A**).

5.3.14. PCB Equipment

Concern over the toxicity and persistence in the environment of polychlorinated biphenyls (PCBs) led Congress in 1976 to enact §6(e) of the Toxic Substances Control Act (TSCA), which included prohibitions on the manufacture, processing, and distribution in commerce of PCBs. Historically, electrical transformers contained a cooling liquid that had PCBs. If present, electrical transformers or hydraulic equipment could provide the potential for release of PCBs onto the Property. In 1984,

manufacturers began producing non-PCB transformers that contain less than 50 parts per million of PCBs.

No PCB equipment was observed at the Property.

5.4. INTERIOR OBSERVATIONS

Not applicable. No structures were observed at the Property.

6. INTERVIEWS

6.1. INTERVIEWS WITH OWNER

On May 12, 2016, Ms. Casey McKeon of Resolution Copper Mining LLC completed the User questionnaire and a project-specific owner questionnaire generated by WestLand (**Appendix B**). Ms. McKeon indicated that to her knowledge, the property has been vacant in recent years and used for unauthorized recreational use. She states that 95 percent of the land at the Property is undeveloped but the site was used in the past as a residence and limited cattle grazing occurred historically. She reported that prior ownership was George Randall for three years and prior to that, the Ewing family owned the Property.

She is not aware of any indication of above- or underground storage tanks, PCB equipment, wastewater treatment facilities, septic systems, contaminated dirt fill, or drains. She also is not aware of any indications of a petroleum or chemical releases at the Property. She is not aware of any information potentially pointing to a REC for the Property.

6.2. INTERVIEWS WITH OCCUPANTS

See Interview with Owner (above).

6.3. INTERVIEWS WITH LOCAL GOVERNMENT OFFICIALS

WestLand interviewed a representative from the Payson Fire Department ((928) 474-5242) in June 2016, by phone, to inquire as to whether or not they have responded to fuel/chemical spills or if they were aware of any chemical or petroleum product storage at the Property or adjoining properties. The representative at the Payson Fire Department responded that the department has no knowledge of any such spills or storage at the Property or on land in the immediate vicinity. The representative also stated that their departments would likely not respond to the Property based on their district boundaries.

WestLand also inquired to the Tonto National Forest, Tonto Basin Ranger District and the Southwestern Regional Office of the USFS in July and August 2016 by telephone and e-mail (mmcgaha@fs.fed.us). Ms. McGaha, Regional Environmental Engineer, responded that she does not have any knowledge of the USFS responding to the Property or adjoining properties with regard to fuel/chemical spills, nor was she aware of any chemical or petroleum product storage at the Property.

6.4. INTERVIEWS WITH OTHERS

The prior Phase I ESA (WestLand 2004) included interviews with past Property owners: Mr. George Randall and Ms. Linda Ewing. In 2004, Mr. Randall stated that he had bought the Property from the Ewing family for speculation purposes and had not used the Property for any purpose.

In 2004, Ms. Ewing stated her husband's grandfather, George Kline, was born on the Property in 1886, and the grandmother had lived on the Property some 80 years. Her husband had used the Property for general outings but they owned another private inholding (ZT Ranch) several miles downstream that had more intensive use. Neither prior land owner reported any on-site or adjoining activity potentially resulting in environmental liability to the Property.

No other individuals were interviewed as part of this investigation.

7. FINDINGS AND OPINIONS

Based on the findings of the environmental records search, historical review, physical setting of the Property, field reconnaissance of the Property, prior reports, and interviews, WestLand provides the following findings and opinions pertaining to the Property:

- On June 27, 2016, WestLand engaged ERS, to conduct a search of available land title records for environmental liens and AULs on the Property. That search identified no records of environmental liens or AULs associated with the Property. There were no title records reviewed that indicated a REC in connection to the Property.

- WestLand contracted with ERS to conduct an electronic search of regulatory agency databases for references to the Property and surrounding lands. The database search was conducted on June 23, 2016, by conducting a search from the boundaries of the Property to the minimum search distance recommended by the ASTM standard. The Property did not appear on any of the databases searched and there were not any database records within the ASTM-recommended distance of the Property boundaries. No RECs were identified in connection to known government records in the vicinity of the Property.

- A Phase I ESA for the Property was conducted by WestLand in 2004. The results of the 2004 Phase I ESA indicated that there was a low environmental risk associated with the Property and that no further investigation or remedial action were warranted at that time. No RECs were identified on the Property or on adjoining land.

- The Property was formerly homesteaded, and development included a series of buildings and property improvements in the southern end of the Property, including a house, barn, kitchen, storehouse, tool house, shop, well, and cultivated area. This homestead was initially associated with Elmer D. Boody. The Boody homestead later became known as the J Slash X Ranch. The site currently includes the remains of several structures, a well, a trail, a small apple orchard, and a small scatter of historical artifacts.

- On June 20 through June 23, 2016, WestLand visited the site to assess existing environmental conditions for the Property. Field observations were consistent with the findings of WestLand's historical review of and interviews about the Property and surrounding properties. Currently, the Property is not used for any focused purpose, but appears to be used for recreational hiking, camping, and off-highway vehicle use. It is generally undisturbed land that appears to have been used in the past for historical homesteading and grazing. The Property is now reverting to natural vegetation. Developed features at the Property are limited. A dry-laid masonry well on the former homestead location was observed. The well appears to have

been almost completely filled in with sediment or possibly trash and two rusted drums have been placed on it.

- The report User is also the land owner. Swift Current Land and Cattle LLC is the land owner and a subsidiary of Resolution Copper Mining LLC. Ms. Casey McKeon completed the User questionnaire and provided responses to a separate owner questionnaire, as representative of Resolution Copper Mining LLC. Ms. McKeon is not aware of any information potentially pointing to a REC for the Property.

- WestLand did not observe any evidence of agricultural chemical (pesticide, herbicide, or fertilizer) storage or use on the Property, and historical records and interviews did not indicate any such specific use. Given the agricultural history of the Property into the late 20th century, it is possible that agricultural chemicals were stored or used on the Property. If past farmers applied pesticides at the Property, potential impacts include environmentally persistent chlorinated pesticides and arsenic (used as a defoliant). However, given the remote location of the Property and evidence of limited agricultural use, this potential chemical storage or use is not likely, and if it occurred, would likely be *de minimis*, and is not considered a REC for the Property.

  WestLand did not observe any septic systems or evidence of such a system on the Property. A septic system may have been located at the former homestead; however it is more likely a privy was used. The location of a potential septic system could be positively identified using a magnetic locator/metal detector (concrete tanks commonly have clean-out lids with metal handles), or a septic system inspector could locate the tank if present. There is no reason to suspect that hazardous material or petroleum products would have been disposed of through a septic system at the ranch; therefore, the presence of a septic system on adjoining land (if present) would not indicate a REC for the Property.

- WestLand interviewed a representative from the Payson Fire Department to inquire whether or not they have responded to fuel/chemical spills or if they were aware of any chemical or petroleum product storage at the Property or adjoining properties. The representative at the Fire Department responded that the department has no knowledge of any such spills or storage at the Property or on land in the immediate vicinity. The representative also stated that their departments would likely not respond to the Property based on their district boundaries. WestLand also inquired to the Tonto National Forest, Tonto Basin Ranger District and the Southwestern Regional Office of the USFS Ms. McGaha, Regional Environmental Engineer, responded that she does not have any knowledge of the USFS responding to the Property or adjoining properties with regard to fuel/chemical spills, nor was she aware of any chemical or petroleum product storage at the Property..

- The prior Phase I ESA (WestLand 2004) included interviews with past Property owners: Mr. George Randall and Ms. Linda Ewing. Neither prior land owner reported any on-site or adjoining activity potentially resulting in environmental liability to the Property.

8. CONCLUSION

WestLand has performed a Phase I ESA in conformance with the scope and limitations of ASTM E 2247-08 for the Property (**Figure 1**). Any exceptions to, or deletions from, this practice are described in Section 9 of this report.

WestLand's assessment has revealed no evidence of a potential REC in connection with the Property. WestLand also did not identify any historical recognized environmental conditions or controlled recognized environmental conditions for the Property.

9. DEVIATIONS

The purpose of reviewing historical sources is to develop a history of the previous uses of a property and surrounding area in order to help identify past uses that may have led to RECs in connection with the Property. According to the ASTM standard, obvious uses of a property shall be identified from the present back to the property's first developed use, or back to 1940, whichever is earlier. This requires reviewing only as many standard historical sources as are reasonably ascertainable and likely to be useful.

Considering that use of the Property is limited and that the Property is located in a relatively remote area and that there is no documented or suspected use of the Property indicating a REC, WestLand did not conduct a city directory search, Sanborn fire insurance map search, building department record search or other similar historical record searches likely to provide relevant information in an urban setting. WestLand did review cultural resources data available for the Property.

No other site access limitations, physical obstructions to observations, outstanding information requests, or historical data failure, etc. would potentially affect the conclusions regarding the identification of RECs for the Property. Considering the known history of the Property and results of our site reconnaissance, coupled with the prior Phase I ESA, and other completed research, this assessment is considered complete.

10. ADDITIONAL SERVICES

12. REFERENCES

American Society for Testing and Materials (ASTM), Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E 1527-13), 2013.

_____. 2008 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property (ASTM E 2247-08), 2008.

Arizona Department of Environmental Quality. (ADEQ). 2016. Water Quality in Arizona 305(b) Assessment Report. 2012/14 Status of Water Quality in Arizona 305(b) Assessment Report. Revised on June 20, 2016. Available at: http://www.azdeq.gov/node/1224. Accessed in September 2016.

Arizona Department of Water Resources (ADWR). 2015. Well Registry Information. Online data retrieved at https://gisweb.azwater.gov/WellRegistry/Detail.aspx. Accessed June 2015.

_____. 2014. Central Highlands Planning Area Hydrology-Surface Water (Agua Fria and Salt River Watershed. Available at: http://www.azwater.gov/azdwr/StatewidePlanning/WaterAtlas/CentralHighlands/PlanningAreaOverview/CentralHighlandsSurfaceWater.htm. Accessed January 29, 2015.

_____. 2009. Groundwater Conditions in the Tonto Creek Basin. Available at: http://www.azwater.gov/AzDWR/StatewidePlanning/WaterAtlas/CentralHighlands/Groundwater/TontoCreek.htm. Accessed January 29, 2015.

Arizona Land Resource Information System (ALRIS). 1975. Regional Soils: GIS Cover. Online data retrieved at http://www.azland.gov/alris/layers.html. Accessed March 13, 2015.

Bureau of Land Management. 2016 General Land Office Records. Electronic document, http://www.glorecords.blm.gov/details/patent/default.aspx?accession=627759&docClass=SER&sid=vr5smrxu.vo2#patentDetailsTabIndex=0, accessed August 15, 2016.

Environmental Protection Agency (EPA), *Standards and Practices for All Appropriate Inquiries* (*40 CFR Part 312*); *final rule,* 2005.

Hendricks, David M. 1985. Arizona Soils. College of Agriculture, University of Arizona: Tucson, AZ.

Skotnicki, S.J.1999. Geologic Map of the Copper Mountain Quadrange, Gila County, AZ. University of Utah Press. Salt Lake City, UT.

U.S. Fish and Wildlife Service (USFWS). 2015. National Wetland Inventory. Digital Data. Online data retrieved at http://www.fws.gov/wetlands/Data/Mapper.html on March 12, 2015.

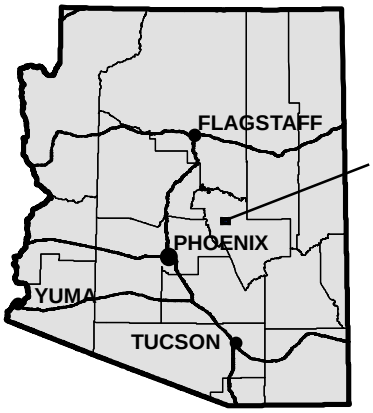
WestLand Resources, Inc (WestLand). 2004a. Phase I Environmental Assessment JX Ranch Site, Yavapai County, Arizona. Prepared for Swift Land & Cattle Company, LLC. March 10, 2004.

_____. 2004b. Ecological Overview: JX Ranch Parcel, Gila County, Arizona. Prepared for Resolution Copper Company. March 31, 2004.

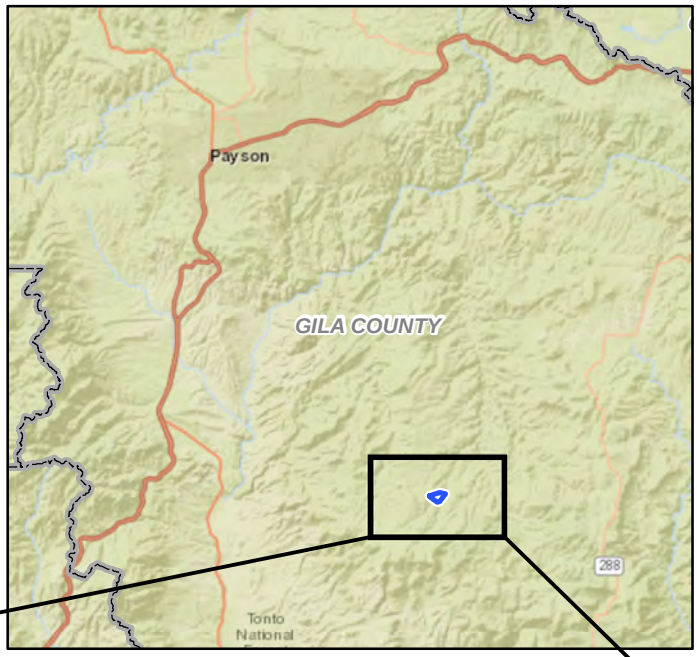
_____. 2004c. Wetlands and Floodplains Report. Prepared for Resolution Copper Company. October 2004.

FIGURES

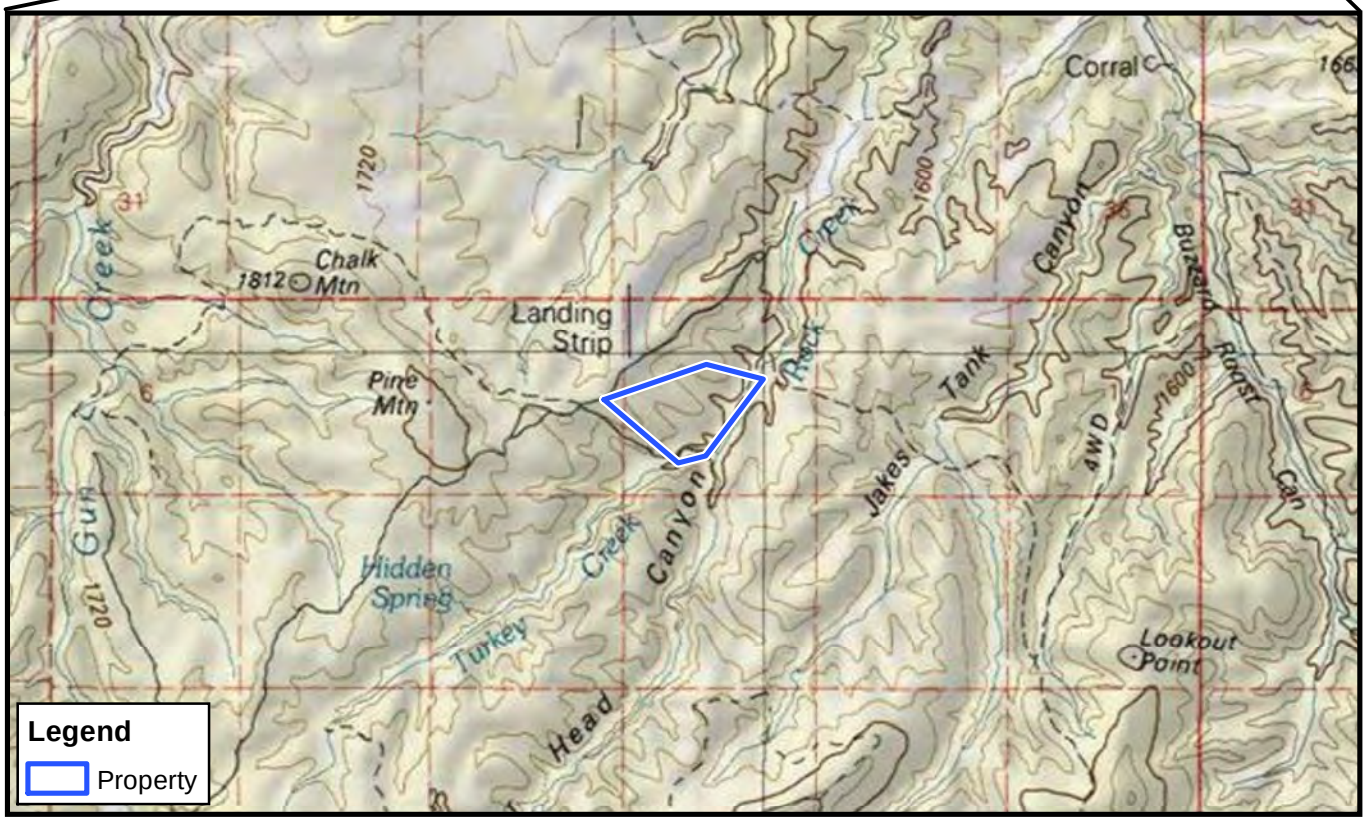
ARIZONA



NORTHWEST PORTION OF GILA COUNTY



Approximate Scale 1 Inch = 10 Miles



T7N, R12E, Portions of Sections 3 & 4,
Gila County, Arizona
Theodore Roosevelt Lake, AZ USGS 1:100,000 Quadrangle
Image Source: ArcGIS Online and World Streetmap

RESOLUTION COPPER

Phase I Environmental Site Assessment for the Turkey Creek Property

VICNITY MAP

Figure 1

WestLand Resources

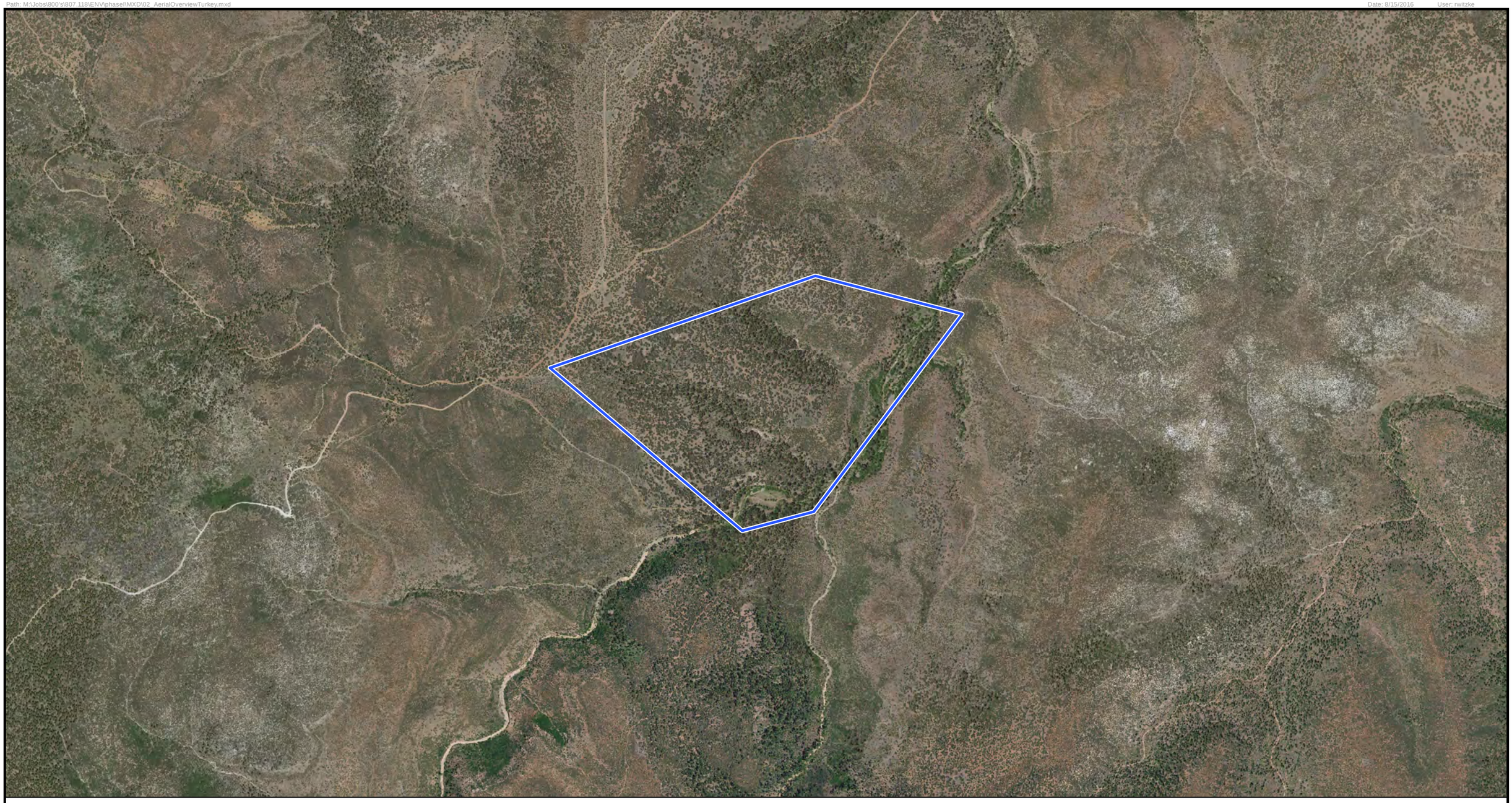
0 0.5 1 Miles

0 1 2 Kilometers

N

Path: M:\Jobs\800's\807.118\ENV\phaseI\MXD\02_AerialOverviewTurkey.mxd

Date: 8/15/2016 User: rwitzke



T7N, R12E, Portions of Sections 3 & 4,
Gila County, Arizona
Image Source: 2015 USDA NAIP Orthophoto

N

0 1,000 2,000 Feet

0 300 600 Meters

Legend

Property

WestLand Resources

RESOLUTION COPPER

Phase I Environmental Site Assessment
for the Turkey Creek Property

AERIAL OVERVIEW

Figure 2

APPENDIX A

Site Photographs

Photo 1. Property overview

Photo 2. Foundation of previous homesteading site

Photo 3. Additional view of previous homesteading site

Photo 4. Tree grove at former homesteading site

Photo 5. Rusted out drums placed in the well at the former homesteading site

Photo 6. Scattered debris found on the Property

APPENDIX B

User and Owner Questionnaires

ASTM E 1527-13 & 2247-08

USER QUESTIONNAIRE

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the user 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). Environmental cleanup liens that are filed or recorded against the *property* (40 CFR 312.25).
Are you aware of any environmental cleanup liens against the *property* that are filed or recorded under federal, tribal, state or local law? NO

(2). Activity and land use limitations that are in place on the Property or that have been filed or recorded against the *property* (40 CFR 312.26).
Are you aware of any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law? NO

(3). Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).
As the user of this ESA do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the *property* or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business? Yes, see number 5 for additional information.

(4). Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29).
Does the purchase price/lease being paid for this *property* reasonably reflect the fair market value of the *property*? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*? No information indicating that the value of the property had been reduced as a result of environmental issues.

(5). Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30).
Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user:

(a.) Do you know the past uses of the *property*? Used as residence and limited cattle grazing, with regular use into latter half of the 20th century. Currently vacant and used for unauthorized dispersed recreational activities by persons accessing the site from adjacent public lands. 95% of land is undeveloped.

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

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

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

(6). The degree of obviousness of the presence of likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).
As the user of this *ESA*, based on your knowledge and experience related to the *property* are there any obvious indicators that point to the presence or likely presence of contamination at the *property*? NO

In addition, certain information should be collected, if available, and provided to the environmental professional selected to conduct the Phase I. This information is intended to assist the environmental professional but is not necessarily required to qualify for one of the LLPs. The information includes:

(a) The reason why the Phase I is required. Support of the land exchange between the US and Resolution Copper Mining

(b) The type of *property* and type of *property* transaction, for example, sale, purchase, exchange, etc. Exchange

(c) The complete and correct address for the *property* (a map or other documentation showing *property* location and boundaries is helpful). Not needed for this questionnaire

(d) The scope of services desired for the Phase I (including whether any parties to the *property* transaction may have a required standard scope of services on whether any considerations beyond the requirements of Practice E 1527/2247 are to be considered). Standard

(e) Identification of all parties who will rely on the Phase I report. Resolution Copper Mining

(f) Identification of the site contact and how the contact can be reached. - Are there previous site contacts that should be interviewed? N/A

(g) Any special terms and conditions which must be agreed upon by the environmental professional. N/A

(h) Any other knowledge or experience with the *property* that may be pertinent to the environmental professional (for example, copies of any available prior environmental site assessment reports, documents, correspondence, etc., concerning the *property* and its environmental condition). N/A

USER NAME & FIRM: Ms. Casey McKeon, Resolution Copper Mining LLC

DATE: May 12, 2016

PROPERTY: Turkey Creek
ENVIRONMENTAL SITE ASSESSMENT

OWNER/ OPERATOR/OCCUPANT QUESTIONNAIRE

The objective of interviews with Past and Present Owners and Occupant is to obtain information indicating recognized environmental conditions in connection with the Property. Past and present owners, operators and occupants shall be interviewed who are likely to have material information regarding the potential for contamination at the property, provided such persons have been identified and the information is not likely to be duplicative of information already obtained from different sources.

Property Location/Address: Turkey Creek - 147 acres in Township 7 North, Range 12 East, in portions of Sections 3 and 4

Interview Medium (underline one): in person, by telephone, in writing Date: May 12, 2016

Interviewee Relationship to the *property* (underline one): past owner, present owner, operator/manager, tenant, occupant, other.

Please respond to the questions provided below and expand your responses as appropriate:

(1). Please describe the current uses of the *property*, if known.
Currently vacant and used for unauthorized recreational activities.

(2). Please describe the past/historic use(s) of the *property*, if known.
95% of the land is undeveloped but was used as a residence and limited cattle grazing historically.

(3). Name the current and any past owners or occupants of the *property*, if known.
Current owner is Swift Land and Cattle LLC. Past owner is George Randall for three years and prior to that the Ewing family.

(4). Please describe the past and/or current uses of adjoining properties, if known. Grazing, recreational activities such as hunting and hiking.

(5). Please describe the general past and/or current uses of the surrounding area, if known. (i.e. residential, commercial, agricultural, industrial etc.)
Forest Service inholding.

(6). Are you aware of any chemicals/petroleum products in individual containers greater than 5-gallons that are present or once were present at the *property* (including used automotive/industrial batteries, pesticides, paints, solvents acids, bases, antifreeze, gasoline, diesel, fuel oil, kerosene, lubricating oil, benzene, etc)? This includes industrial drums (typically 55-gallons).

Yes_____ No___x__ Unknown_____

(7). Do you know of spills or other chemical releases that have taken place at the *property*?

Yes_____ No__x___ Unknown_____

(8). Do you know of any environmental cleanups that have taken place at the *property*?

Yes_____ No_____ Unknown_x____

(9). Are you aware of any environmental cleanup liens against the *property*?

Yes_____ No___x__ Unknown_____

(10). Are you aware of any engineering controls (capping, slurry walls or water treatment), land use restrictions or institutional controls (deed restriction, restrictive covenants, easements or zoning) intended to reduce exposure of a hazardous substance or petroleum product at the *property*?

Yes_____ No_____ Unknown__x___

(11). Are there any above ground storage tanks, underground storage tanks, vent pipes or access ways indicating storage tanks at the *property*?

Yes_____ No_____ Unknown_x___

(12). Are there any PCBs (transformers, hydraulic equipment) at the *property*?

Yes_____ No__x___ Unknown_____

(13). Have you observed stained soil/pavement, corrosion, or stressed vegetation that may indicate a petroleum or chemical spill at the *property*?

Yes_____ No___x__ Unknown_____

(14). Have you observed pits, ponds, or lagoons associated with wastewater treatment/disposal at the *property*?

Yes_____ No____x_ Unknown_____

(15). Are you aware of any wastewater/stormwater facilities at the *property* (drains, sumps, ditches, washes)?

Yes_____ No_____ Unknown___x__

(16). Are you aware of any wells located at the *property* (dry, irrigation, injection, or abandoned)?

Yes_____ No_____ Unknown__x___

(17). Are you aware of any septic systems at the *property*?

Yes_____ No_____ Unknown__x___

(18). Has the *property* been used for landfill, dump, battery storage, junkyard, or other disposal purposes?

Yes_____ No___x__ Unknown_____

(19). Has dirt fill been brought to the *property* that originated from a site of unknown origin or from a contaminated site?

Yes_____ No_____ Unknown__x___

(20). Are there or has there ever been any flooring, drains, or walls located within the facility that are stained by substances other than water or emitting odors?

Yes_____ No_____ Unknown__x___

(21). Are you aware of any other information that may be pertinent to identifying past and present environmental conditions at the property or copies of any available prior *environmental site assessment reports*, documents, correspondence, etc., concerning the *property* and its environmental condition?

Yes__x___ No_____ Unknown_____ see previous ESA phase I 2004

APPENDIX C

Title and Encumbrances Documents

JX – Turley Creek

LandAmerica
Commercial Services

1850 North Central Avenue
Suite 300
Phoenix, AZ 85004
Watts 1.800.523.0358
Facsimile 1.602.263.0433
Main 1.602.287.3500

February 15, 2006

SWIFT CURRENT LAND & CATTLE LLC
2525 E. ARIZONA BILTMORE CIRCLE #C135
Phoenix, AZ 85016

RE: **H.E.S. 151, Gila, AZ**
Escrow No.: **N0443066 - 001 - JM1**
Seller/Buyer: **BP & A HOLDINGS, INC., AS INTERMEDIARY FOR. and . / SWIFT CURRENT LAND & CATTLE LLC**

In connection with the above referenced escrow, enclosed herewith please find the following papers indicated with a ☑

X ORIGINAL TITLE POLICY
X COPY OF RECORDED DEED
☐
☐
☐
☐

Please review the enclosed information. If you should have any questions, please do not hesitate to contact me.

Sincerely,
Lawyers Title Insurance Corporation

Juliana McCabe
Commercial Escrow Officer

trnmtgen

ISSUED BY
LAWYERS TITLE INSURANCE CORPORATION

Commitment For
Title Insurance

LandAmerica
Lawyers Title

LAWYERS TITLE INSURANCE CORPORATION, a Virginia corporation, herein called the Company, for valuable consideration, hereby commits to issue its policy or policies of title insurance, as identified in Schedule A, in favor of the proposed Insured named in Schedule A, as owner or mortgagee of the estate or interest covered hereby in the land described or referred to in Schedule A, upon payment of the premiums and charges therefor; all subject to the provisions of Schedules A and B and to the Conditions and Stipulations hereof .

This Commitment shall be effective only when the identity of the proposed Insured and the amount of the policy or policies committed for have been inserted in Schedule A hereof by the Company, either at the time of the issuance of this Commitment or by subsequent endorsement.

This Commitment is preliminary to the issuance of such policy or policies of title insurance and all liability and obligations hereunder shall cease and terminate six (6) months after the effective date hereof or when the policy or policies committed for shall issue, whichever first occurs, provided that the failure to issue such policy or policies is not the fault of the Company.

IN WITNESS WHEREOF, LAWYERS TITLE INSURANCE CORPORATION has caused its corporate name and seal to be hereunto affixed by its duly authorized officers, the Commitment to become valid when countersigned by an authorized officer or agent of the Company.

LAWYERS TITLE INSURANCE CORPORATION

Attest: _____ Secretary

LAWYERS TITLE INSURANCE CORPORATION SEAL 1925 RICHMOND, VA

By: _____ President

DISCLOSURE NOTICES

GOOD FUNDS LAW

Effective August 22, 2002, Arizona Revised Statutes Section 6-843 regulates the disbursement of escrow funds by an escrow agent. The law requires that funds be deposited in the escrow agent's escrow account and available for withdrawal prior to disbursement. Funds deposited with the Company by wire transfer may be disbursed upon receipt. Funds deposited with the Company in the form of cashier's checks, certified checks or teller's checks may be disbursed the next business day after the day of deposit. If funds are deposited with the Company by other methods, recording and/or disbursement may be delayed.

Privacy Notice (15 U.S.C. 6801 and 16 CFR Part 313):

We collect nonpublic personal information about you from information you provide on forms and documents and from other people such as your lender, real estate agent, attorney, escrow, etc. We do not disclose any nonpublic personal information about our customers or former customers to anyone, except as permitted by law. We restrict access to nonpublic personal information about you to those employees who need to know that information in order to provide products or services to you. We maintain physical, electronic and procedural safeguards that comply with federal regulations to guard your nonpublic personal information.

PURCHASER DWELLING ACTIONS NOTICE

Pursuant to Arizona Revised Statutes Section 12-1363.N, notice is hereby provided to the purchaser of a dwelling of the provisions of Arizona Revised Statutes Sections 12-1361, 1362 and 1363. These statutory sections set forth the requirements to be met by a purchaser prior to bringing an action against the seller of a dwelling arising out of or related to the design, construction, condition or sale of the dwelling. "Dwelling" means a single or multifamily unit designed for residential use and common areas and improvements owned or maintained by an association or its members. "Seller" means any person, firm, partnership, corporation, association or other organization engaged in the business of designing, constructing or selling dwellings. The complete statutory sections can be viewed on the Arizona State Legislature's web site: www.azleg.state.az.us/ars/ars.htm.

NOTICE:

Pursuant to Arizona Revised Statutes 11-480, effective January 1, 1991, the County Recorder may not accept documents for recording that do not comply with the following:

a Print must be ten-point type (pica) or larger.

b Margins of at least one-half inch along the left and right sides one-half inch across the bottom and at least two inches on top for recording and return address information.

c Each instrument shall be no larger than 8 ½ inches in width and 14 inches in length.

COMMITMENT FOR TITLE INSURANCE
Issued by

Lawyers Title Insurance Corporation

SCHEDULE A

1. Effective Date: **February 8, 2004**

2. Policy or Policies to be issued: **ALTA Owners Policy 10-17-92**

   Proposed Insured: **SWIFT CURRENT LAND & CATTLE LLC, an Arizona limited liability company**

   Liability: $**800,000.00**

   Policy or Policies to be issued: **None**

   Proposed Insured:

   Liability: $

   Policy or Policies to be issued: **None**

   Proposed Insured:

   Liability: $

3. The estate or interest in the land described or referred to in the Commitment and covered herein is **A FEE** and is at the effective date hereof vested in:

   GEORGE C. RANDALL and VICTORIA RANDALL, husband and wife and FRED M. RANDALL and KAREN RANDALL, husband and wife

4. The land referred to in this Commitment is situated in the County of Gila, State of ARIZONA, and is described as follows:

   As Fully Set forth on Exhibit "A" attached hereto and by this reference incorporated herein.

Countersigned By:

Authorized Officer or Agent

EXHIBIT "A"

Homestead Entry Survey No. 151, Gila County, Arizona

SCHEDULE B – SECTION I

The following are requirements to be complied with:

A. The following are the requirements to be complied with prior to the issuance of said policy or policies. Any other instrument recorded subsequent to the date hereof may appear as an exception under Schedule B of the policy to be issued. Unless otherwise noted, all documents must be recorded in the office of the Recorder of the County in which said property is located.

Note: Pursuant to Arizona Revised Statutes 11-480, effective January 1, 1991, the County Recorder may not accept documents for recording that do not comply with the following:

(a) Print must be ten-point type (pica) or larger.

(b) Margins of at least one-half inch along the left and right sides one-half inch across the bottom and at least two inches on top for recording and return address information.

(c) Each instrument shall be no larger than 8-1/2 inches in width and 14 inches in length.

1. Record Deed from Vestee to Proposed Insured Owner.

Tax Note:

Year	: 2003
Parcel No.	: 201-05-001
District	: 3300
Total Tax	: $ 24.24
First Half	: $ 12.12 Paid
Second Half	: $ 12.12 Paid

Privacy Notice (15 U.S.C. 6801 and 16 CFR Part 313): We collect nonpublic personal information about you from information you provide on forms and documents and from other people such as your lender, real estate agent, attorney, escrow, etc. We do not disclose any nonpublic personal information about our customers or former customers to anyone, except as permitted by law. We restrict access to nonpublic personal information about you to those employees who need to know that information in order to provide products or services to you. We maintain physical, electronic and procedural safeguards that comply with federal regulations to guard your nonpublic personal information.

END OF SCHEDULE B – SECTION I

SCHEDULE B – SECTION II
EXCEPTIONS

Schedule B of policy or policies to be issued will contain exceptions to the following matters unless the same are disposed of to the satisfaction of the Company:

A. Defects, liens, encumbrances, adverse claims or other matters, if any, created, first appearing in the public records or attaching subsequent to the effective date hereof but prior to the date the proposed Insured acquires for value of record the estate or interest or mortgage thereon covered by this commitment.

1. Taxes and assessments collectible by the County Treasurer not yet due and payable for the following year:

   Year : 2004

2. The lack of a legal right of access recorded in insurable form to and from said land to a public street.

   Notwithstanding the affirmative assurance of paragraph 4, the Company is unwilling to insure access.

END OF SCHEDULE B – SECTION II

SOS

COMMITMENT CONDITIONS AND STIPULATIONS

1. The term mortgage, when used herein, shall include deed of trust, trust deed, or other security instrument.
2. If the proposed insured has or acquires actual knowledge of any defect, lien, encumbrance, adverse claim or other matter affecting the estate or interest or mortgage thereon covered by this Commitment other than those shown in Schedule B hereof, and shall fail to disclose such knowledge to the Company in writing, the Company shall be relieved from liability for any loss or damage resulting from any act or reliance hereon to the extent the Company is prejudiced by failure to so disclose such knowledge. If the proposed Insured shall disclose such knowledge to the Company, or if the Company otherwise acquires actual knowledge of any such defect, lien, encumbrance, adverse claim or other matter, the Company at its option may amend Schedule B of this Commitment accordingly, but such amendment shall not relieve the Company from liability previously incurred pursuant to paragraph 3 of these Conditions and Stipulations.
3. Liability of the Company under this Commitment shall be only to the named proposed insured and such parties included under the definition of insured in the form of policy or policies committed for and only for actual loss incurred in reliance hereon in undertaking in good faith, (a) to comply with the requirements hereof, or (b) to eliminate exceptions shown in Schedule B, or (c) to acquire or create the estate or interest or mortgage thereon covered by this Commitment. In no event shall such liability exceed the amount stated in Schedule A for the policy or policies committed for and such liability is subject to the insuring provisions, the Conditions and Stipulations, and the Exclusions from Coverage of the form of policy or policies committed for in favor of the proposed insured which are hereby incorporated by reference and are made a part of this Commitment except as expressly modified herein.
4. Any action or actions or rights of action that the proposed insured may have or may bring against the Company arising out of the status of the title to the estate or interest or the status of the mortgage thereon covered by this Commitment must be based on and are subject to the provisions of this Commitment

AMERICAN LAND TITLE ASSOCIATION LOAN POLICY (10-17-92)
WITH ALTA ENDORSEMENT-FORM 1 COVERAGE
and
AMERICAN LAND TITLE ASSOCIATION LEASEHOLD LOAN POLICY (10-17-92)
WITH ALTA ENDORSEMENT-FORM 1 COVERAGE
EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorney's fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building and zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
   (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation effecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
   (a) created, suffered, assumed or agreed to by the insured claimant'
   (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
   (c) resulting in no loss or damage to the insured claimant;
   (d) attaching or created subsequent to Date of Policy; (except to the extent that this policy insures the priority of the lien of the insured mortgage over any statutory lien for services, labor or material) or
   (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the estate or interest insured by this policy.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with applicable doing business laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any statutory lien for services, labor or materials (or the claim of priority of any statutory lien for services, labor or materials over the lien of the insured mortgage) arising from an improvement or work related to the land which is contracted for and commenced subsequent to Date of Policy and is not financed in whole or in part by proceeds of the indebtedness secured by the insured mortgage which at Date of Policy the insured has advanced or is obligated to advance.
7. Any claim which arises out of the transaction creating the interest of the mortgagee insured by this Policy, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that is based on:
   (a) the transaction creating the interest of the insured mortgagee being deemed a fraudulent conveyance or fraudulent transfer, or
   (b) the subordination of the interest of the insured mortgagee as a result of the application of the doctrine of equitable subordination; or
   (c) the transaction creating the interest of the insured mortgagee being deemed a preferential transfer except where the preferential transfer results from the failure:
      (i) to timely record the instrument of transfer; or
      (ii) of such recordation to impart notice to a purchaser for value or a judgment or lien creditor.

The above policy forms may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following General Exceptions:

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
   Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the pubic records.
2. Any facts, rights, interests or claim which are not shown by the public records but which could be ascertained by an inspection of the land or by making inquiry of persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof, which are not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.

AMERICAN LAND TITLE ASSOCIATION OWNER'S POLICY (10-17-92)
And
AMERICAN LAND TITLE ASSOCIATION LEASEHOLD OWNER'S POLICY (10-17-92)
EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building and zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violating affecting the land has been recorded in the public records at Date of Policy.
   (b) Any governmental policy power not excluded by (a) above, except to the extent that a notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
   (a) created, suffered, assumed or agreed to by the insured claimant'
   (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy,
   (c) resulting in no loss or damage to the insured claimant;
   (d) attaching or created subsequent to Date of Policy; (except to the extent that this policy insures the priority of the lien of the insured mortgage over any statutory lien for services, labor or material) or
   (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the estate or interest insured by this policy.
4. Any claim, which arises out of the transaction vesting in the insured the estate or interest insured by the policy, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that is based on:
   (a) the transaction creating the estate or interest insured by this policy being deemed a fraudulent conveyance or fraudulent transfer; or
   (b) the transaction creating the estate or interest insured by the policy being deemed a preferential transfer except where the preferential transfer results from the failure:
      (i) to timely record the instrument of transfer; or
      (ii) of such recordation to impart notice to a purchaser for value or a judgment or lien creditor.

The above policy forms may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage Policy will also include the following General Exceptions.

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
   Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the pubic records.
2. Any facts, rights, interests or claim which are not shown by the public records but which could be ascertained by an inspection of the land or by making inquiry of persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof, which are not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.

AMERICAN LAND TITLE ASSOCIATION
HOMEOWNER'S POLICY OF TITLE INSURANCE (10/17/98)
EXCLUSIONS

In addition to the Exceptions in Schedule B, You are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of any law or government regulation. This includes ordinances, laws and regulations concerning:
   a. building
   b. zoning
   c. land use
   d. improvements on the Land
   e. land division
   f. environmental protection

   This Exclusion does not apply to violations or the enforcement of these matters if notice of the violation or enforcement appears in the Public Records at the Policy Date.
   This Exclusion does not limit the coverage described in Covered Risk 14, 15, 16, 17 or 24.
2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not apply to violations of building codes if notice of the violation appears in the Public Records at the Policy Date.
3. The right to take the Land by condemning it, unless:
   a. a notice of exercising the right appears in the Public Records at the Policy Date; or
   b. the taking happened before the Policy date and is binding on You if You bought the Land without knowing of the taking.
4. Risks:
   a. that are created, allowed, or agreed to by You, whether or not they appear in the Public Records;
   b. that are known to You at the Policy Date, but not to Us, unless they appear in the Public Records at the Policy Date;
   c. that result in no loss to You; or
   d. that first occur after the Policy Date – this does not limit the coverage described in Covered Risk 7, 8d, 22, 23, 24 or 25.
5. Failure to pay value for Your Title.
5. Lack of a right:
   a. to any land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
   b. in streets, alleys, or waterways that touch the land.

   This Exclusion does not limit the coverage described in Covered Risk 11 or 18.

AMERICAN LAND TITLE ASSOCIATION
RESIDENTIAL TITLE INSURANCE POLICY (6-2-87)
EXCLUSIONS

In addition to the Exceptions in Schedule B, you are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of any law or government regulation. This includes building and zoning ordinances and also laws and regulations concerning:
   - Land use
   - Improvements on the land
   - Land division
   - Environmental protection

   This exclusion does not apply to violations or the enforcement of these matters which appear in the public records at Policy Date.
   This exclusion does not limit the zoning coverage described in items 12 and 13 of Covered Title Risks.
2. The right to take the land by condemning it, unless;
   - A notice of exercising the right appears in the public records on the Policy Date
   - The taking happened prior to the Policy Date and is binding on you if you bought the land without knowing of the taking
3. Title Risks:
   - That are created, allowed, or agreed to by you
   - That are known to you, but not to us, on the Policy Date – unless they appeared in the Public Records
   - That result in no loss to you
   - That first affect your title after the Policy Date – this does not limit the labor and material lien coverage in Item B of Covered Title Risks
4. Failure to pay value for your title.
5. Lack of a right:
   - To any land outside the area specifically described and referred to in Item 3 of Schedule A
     OR
   - In streets, alleys, or waterways that touch your land

This exclusion does not limit the access coverage in Item 5 of Covered Title Risks

LandAmerica Lawyers Title

NATIONAL HEADQUARTERS
RICHMOND, VIRGINIA

OWNER'S POLICY

POLICY NO.:	EFFECTIVE DATE OF POLICY:
N04-43066 / 00208380	December 15, 2005 at 4:00 p.m.
AMOUNT OF INSURANCE:	**$845,000.00**

SCHEDULE A

1. **Name of Insured:**

   Swift Current Land & Cattle LLC, an Arizona limited liability company

2. **The estate or interest in the land which is covered by this policy is:**

   FEE

3. **Title to the estate or interest in the land is vested in:**

   Swift Current Land & Cattle LLC, an Arizona limited liability company

4. **The land referred to in this policy is described as follows:**

   Homestead Entry Survey No. 151, Gila County, Arizona

Countersigned:

PRO FORMA

Authorized Officer or Agent

SCHEDULE B

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees, or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.

   Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.

2. Any facts, rights, interests or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.

3. Easements, liens or encumbrances, or claims thereof, which are not shown by the public records.

4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.

5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, and agreements, covenants, conditions or rights incident thereto, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.

6. Lack of a legal right of access in insurable form to and from said land to a public street.

END OF SCHEDULE B

OWNER'S POLICY OF TITLE INSURANCE

Issued by **Lawyers Title Insurance Corporation**

LandAmerica Lawyers Title

Lawyers Title Insurance Corporation is a member of the LandAmerica family of title insurance underwriters.

SUBJECT TO THE EXCLUSIONS FROM COVERAGE, THE EXCEPTIONS FROM COVERAGE CONTAINED IN SCHEDULE B AND THE CONDITIONS AND STIPULATIONS, LAWYERS TITLE INSURANCE CORPORATION, a Virginia corporation, herein called the Company, insures, as of Date of Policy shown in Schedule A, against loss or damage, not exceeding the Amount of Insurance stated in Schedule A, sustained or incurred by the insured by reason of:

1. Title to the estate or interest described in Schedule A being vested other than as stated therein;
2. Any defect in or lien or encumbrance on the title;
3. Unmarketability of the title;
4. Lack of a right of access to and from the land.

The Company will also pay the costs, attorneys' fees and expenses incurred in defense of the title, as insured, but only to the extent provided in the Conditions and Stipulations.

IN WITNESS WHEREOF, LAWYERS TITLE INSURANCE CORPORATION has caused its corporate name and seal to be hereunto affixed by its duly authorized officers, the Policy to become valid when countersigned by an authorized officer or agent of the Company.

LAWYERS TITLE INSURANCE CORPORATION

Attest: _____ Secretary

LAWYERS TITLE INSURANCE CORPORATION — SEAL — 1925 — RICHMOND, VA

By: _____ President

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building and zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
   (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.

2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.

3. Defects, liens, encumbrances, adverse claims or other matters:
   (a) created, suffered, assumed or agreed to by the insured claimant;
   (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
   (c) resulting in no loss or damage to the insured claimant;
   (d) attaching or created subsequent to Date of Policy; or
   (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the estate or interest insured by this policy.

4. Any claim, which arises out of the transaction vesting in the Insured the estate or interest insured by this policy, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that is based on:
   (a) the transaction creating the estate or interest insured by this policy being deemed a fraudulent conveyance or fraudulent transfer; or
   (b) the transaction creating the estate or interest insured by this policy being deemed a preferential transfer except where the preferential transfer results from the failure:
      (i) to timely record the instrument of transfer; or
      (ii) of such recordation to impart notice to a purchaser for value or a judgment or lien creditor.

CONDITIONS AND STIPULATIONS

1. DEFINITION OF TERMS.

The following terms when used in this policy mean:

(a) "insured": the insured named in Schedule A, and, subject to any rights or defenses the Company would have had against the named insured, those who succeed to the interest of the named insured by operation of law as distinguished from purchase including, but not limited to, heirs, distributees, devisees, survivors, personal representatives, next of kin, or corporate or fiduciary successors.

(b) "insured claimant": an insured claiming loss or damage.

(c) "knowledge" or "known": actual knowledge, not constructive knowledge or notice which may be imputed to an insured by reason of the public records as defined in this policy or any other records which impart constructive notice of matters affecting the land.

(d) "land": the land described or referred to in Schedule A, and improvements affixed thereto which by law constitute real property. The term "land" does not include any property beyond the lines of the area described or referred to in Schedule A, nor any right, title, interest, estate or easement in abutting streets, roads, avenues, alleys, lanes, ways or waterways, but nothing herein shall modify or limit the extent to which a right of access to and from the land is insured by this policy.

(e) "mortgage": mortgage, deed of trust, trust deed, or other security instrument.

(f) "public records": records established under state statutes at Date of Policy for the purpose of imparting constructive notice of matters relating to real property to purchasers for value and without knowledge. With respect to Section 1(a)(iv) of the Exclusions From Coverage, "public records" shall also include environmental protection liens filed in the records of the clerk of the United States district court for the district in which the land is located.

(g) "unmarketability of the title": an alleged or apparent matter affecting the title to the land, not excluded or excepted from coverage, which would entitle a purchaser of the estate or interest described in Schedule A to be released from the obligation to purchase by virtue of a contractual condition requiring the delivery of marketable title.

2. CONTINUATION OF INSURANCE AFTER CONVEYANCE OF TITLE.

The coverage of this policy shall continue in force as of Date of Policy in favor of an insured only so long as the insured retains an estate or interest in the land, or holds an indebtedness secured by a purchase money mortgage given by a purchaser from the insured, or only so long as the insured shall have liability by reason of covenants of warranty made by the insured in any transfer or conveyance of the estate or interest. This policy shall not continue in force in favor of any purchaser from the insured of either (i) an estate or interest in the land, or (ii) an indebtedness secured by a purchase money mortgage given to the insured.

3. NOTICE OF CLAIM TO BE GIVEN BY INSURED CLAIMANT.

The insured shall notify the Company promptly in writing (i) in case of any litigation as set forth in Section 4(a) below, (ii) in case knowledge shall come to an insured hereunder of any claim of title or interest which is adverse to the title to the estate or interest, as insured, and which might cause loss or damage for which the Company may be liable by virtue of this policy, or (iii) if title to the estate or interest, as insured, is rejected as unmarketable. If prompt notice shall not be given to the Company, then as to the insured all liability of the Company shall terminate with regard to the matter or matters for which prompt notice is required; provided, however, that failure to notify the Company shall in no case prejudice the rights of any insured under this policy unless the Company shall be prejudiced by the failure and then only to the extent of the prejudice.

4. DEFENSE AND PROSECUTION OF ACTIONS; DUTY OF INSURED CLAIMANT TO COOPERATE.

(a) Upon written request by the insured and subject to the options contained in Section 6 of these Conditions and Stipulations, the Company, at its own cost and without unreasonable delay, shall provide for the defense of an insured in litigation in which any third party asserts a claim adverse to the title or interest as insured, but only as to those stated causes of action alleging a defect, lien or encumbrance or other matter insured against by this policy. The Company shall have the right to select counsel of its choice (subject to the right of the insured to object for reasonable cause) to represent the insured as to those stated causes of action and shall not be liable for and will not pay the fees of any other counsel. The Company will not pay any fees, costs or expenses incurred by the insured in the defense of those causes of action which allege matters not insured by this policy.

(b) The Company shall have the right, at its own cost, to institute and prosecute any action or proceeding or to do any other act which in its opinion may be necessary or desirable to establish the title to the estate or interest, as insured, or to prevent or reduce loss or damage to the insured. The Company may take any appropriate action under the terms of this policy, whether or not it shall be liable hereunder, and shall not thereby concede liability or waive any provision of this policy. If the Company shall exercise its rights under this paragraph, it shall do so diligently.

(c) Whenever the Company shall have brought an action or interposed a defense as required or permitted by the provisions of this policy, the Company may pursue any litigation to final determination by a court of competent jurisdiction and expressly reserves the right, in its sole discretion, to appeal from any adverse judgment or order.

(d) In all cases where this policy permits or requires the Company to prosecute or provide for the defense of any action or proceeding, the insured shall secure to the Company the right to so prosecute or provide defense in the action or proceeding, and all appeals therein, and permit the Company to use, at its option, the name of the insured for this purpose. Whenever requested by the Company, the insured, at the Company's expense, shall give the Company all reasonable aid (i) in any action or proceeding, securing evidence, obtaining witnesses, prosecuting or defending the action or proceeding, or effecting settlement, and (ii) in any other lawful act which in the opinion of the Company may be necessary or desirable to establish the title to the estate or interest as insured. If the Company is prejudiced by the failure of the insured to furnish the required cooperation, the Company's obligations to the insured under the policy shall terminate, including any liability or obligation to defend, prosecute, or continue any litigation, with regard to the matter or matters requiring such cooperation.

5. PROOF OF LOSS OR DAMAGE.

In addition to and after the notices required under Section 3 of these Conditions and Stipulations have been provided the Company, a proof of loss or damage signed and sworn to by the insured claimant shall be furnished to the Company within 90 days after the insured claimant shall ascertain the facts giving rise to the loss or damage. The proof of loss or damage shall describe the defect in, or lien or encumbrance on the title, or other matter insured against by this policy which constitutes the basis of loss or damage and shall state, to the extent possible, the basis of calculating the amount of the loss or damage. If the Company is prejudiced by the failure of the insured claimant to provide the required proof of loss or damage, the Company's obligations to the insured under the policy shall terminate, including any liability or obligation to defend, prosecute, or continue any litigation, with regard to the matter or matters requiring such proof of loss or damage.

In addition, the insured claimant may reasonably be required to submit to examination under oath by any authorized representative of the Company and shall produce for examination, inspection and copying, at such reasonable times and places as may be designated by any authorized representative of the Company, all records, books, ledgers, checks, correspondence and memoranda, whether bearing a date before or after Date of Policy, which reasonably pertain to the loss or damage. Further, if requested by any authorized representative of the Company, the insured claimant shall grant its permission, in writing, for any authorized representative of the Company to examine, inspect and copy all records, books, ledgers, checks, correspondence and memoranda in the custody or control of a third party, which reasonably pertain to the loss or damage. All information designated as confidential by the insured claimant provided to the Company pursuant to this Section shall not be disclosed to others unless, in the reasonable judgment of the Company, it is necessary in the administration of the claim. Failure of the insured claimant to submit for examination under oath, produce other reasonably requested information or grant permission to secure reasonably necessary information from third parties as required in this paragraph shall terminate any liability of the Company under this policy as to that claim.

6. OPTIONS TO PAY OR OTHERWISE SETTLE CLAIMS; TERMINATION OF LIABILITY.

In case of a claim under this policy, the Company shall have the following additional options:

(a) To Pay or Tender Payment of the Amount of Insurance.

To pay or tender payment of the amount of insurance under this policy together with any costs, attorneys' fees and expenses incurred by the insured claimant, which were authorized by the Company, up to the time of payment or tender of payment and which the Company is obligated to pay.

Upon the exercise by the Company of this option, all liability and obligations to the insured under this policy, other than to make the payment required, shall terminate, including any liability or obligation to defend, prosecute, or continue any litigation, and the policy shall be surrendered to the Company for cancellation.

(b) To Pay or Otherwise Settle With Parties Other than the Insured or With the Insured Claimant.

(i) to pay or otherwise settle with other parties for or in the name of an insured claimant any claim insured against under this policy, together with any costs, attorneys' fees and expenses incurred by the insured claimant which were authorized by the Company up to the time of payment and which the Company is obligated to pay; or

(ii) to pay or otherwise settle with the insured claimant the loss or damage provided for under this policy, together with any costs, attorneys' fees and expenses incurred by the insured claimant which were authorized by the Company up to the time of payment and which the Company is obligated to pay.

Upon the exercise by the Company of either of the options provided for in paragraphs (b)(i) or (ii), the Company's obligations to the insured under this policy for the claimed loss or damage, other than the payments required to be made, shall terminate, including any liability or obligation to defend, prosecute or continue any litigation.

CONTROL NUMBER B27-0151012

CONDITIONS AND STIPULATIONS
(Continued)

7. DETERMINATION, EXTENT OF LIABILITY AND COINSURANCE.

This policy is a contract of indemnity against actual monetary loss or damage sustained or incurred by the insured claimant who has suffered loss or damage by reason of matters insured against by this policy and only to the extent herein described.

(a) The liability of the Company under this policy shall not exceed the least of:

(i) the Amount of Insurance stated in Schedule A; or,

(ii) the difference between the value of the insured estate or interest as insured and the value of the insured estate or interest subject to the defect, lien or encumbrance insured against by this policy.

(b) In the event the Amount of Insurance stated in Schedule A at the Date of Policy is less than 80 percent of the value of the insured estate or interest or the full consideration paid for the land, whichever is less, or if subsequent to the Date of Policy an improvement is erected on the land which increases the value of the insured estate or interest by at least 20 percent over the Amount of Insurance stated in Schedule A, then this Policy is subject to the following:

(i) where no subsequent improvement has been made, as to any partial loss, the Company shall only pay the loss pro rata in the proportion that the amount of insurance at Date of Policy bears to the total value of the insured estate or interest at Date of Policy; or

(ii) where a subsequent improvement has been made, as to any partial loss, the Company shall only pay the loss pro rata in the proportion that 120 percent of the Amount of Insurance stated in Schedule A bears to the sum of the Amount of Insurance stated in Schedule A and the amount expended for the improvement.

The provisions of this paragraph shall not apply to costs, attorneys' fees and expenses for which the Company is liable under this policy, and shall only apply to that portion of any loss which exceeds, in the aggregate, 10 percent of the Amount of Insurance stated in Schedule A.

(c) The Company will pay only those costs, attorneys' fees and expenses incurred in accordance with Section 4 of these Conditions and Stipulations.

8. APPORTIONMENT.

If the land described in Schedule A consists of two or more parcels which are not used as a single site, and a loss is established affecting one or more of the parcels but not all, the loss shall be computed and settled on a pro rata basis as if the amount of insurance under this policy was divided pro rata as to the value on Date of Policy of each separate parcel to the whole, exclusive of any improvements made subsequent to Date of Policy, unless a liability or value has otherwise been agreed upon as to each parcel by the Company and the insured at the time of the issuance of this policy and shown by an express statement or by an endorsement attached to this policy.

9. LIMITATION OF LIABILITY.

(a) If the Company establishes the title, or removes the alleged defect, lien or encumbrance, or cures the lack of a right of access to or from the land, or cures the claim of unmarketability of title, all as insured, in a reasonably diligent manner by any method, including litigation and the completion of any appeals therefrom, it shall have fully performed its obligations with respect to that matter and shall not be liable for any loss or damage caused thereby.

(b) In the event of any litigation, including litigation by the Company or with the Company's consent, the Company shall have no liability for loss or damage until there has been a final determination by a court of competent jurisdiction, and disposition of all appeals therefrom, adverse to the title as insured.

(c) The Company shall not be liable for loss or damage to any insured for liability voluntarily assumed by the insured in settling any claim or suit without the prior written consent of the Company.

10. REDUCTION OF INSURANCE; REDUCTION OR TERMINATION OF LIABILITY.

All payments under this policy, except payments made for costs, attorneys' fees and expenses, shall reduce the amount of the insurance pro tanto.

11. LIABILITY NONCUMULATIVE.

It is expressly understood that the amount of insurance under this policy shall be reduced by any amount the Company may pay under any policy insuring a mortgage to which exception is taken in Schedule B or to which the insured has agreed, assumed, or taken subject, or which is hereafter executed by an insured and which is a charge or lien on the estate or interest described or referred to in Schedule A, and the amount so paid shall be deemed a payment under this policy to the insured owner.

12. PAYMENT OF LOSS.

(a) No payment shall be made without producing this policy for endorsement of the payment unless the policy has been lost or destroyed, in which case proof of loss or destruction shall be furnished to the satisfaction of the Company.

(b) When liability and the extent of loss or damage has been definitely fixed in accordance with these Conditions and Stipulations, the loss or damage shall be payable within 30 days thereafter.

13. SUBROGATION UPON PAYMENT OR SETTLEMENT.

(a) The Company's Right of Subrogation.

Whenever the Company shall have settled and paid a claim under this policy, all right of subrogation shall vest in the Company unaffected by any act of the insured claimant.

The Company shall be subrogated to and be entitled to all rights and remedies which the insured claimant would have had against any person or property in respect to the claim had this policy not been issued. If requested by the Company, the insured claimant shall transfer to the Company all rights and remedies against any person or property necessary in order to perfect this right of subrogation. The insured claimant shall permit the Company to sue, compromise or settle in the name of the insured claimant and to use the name of the insured claimant in any transaction or litigation involving these rights or remedies.

If a payment on account of a claim does not fully cover the loss of the insured claimant, the Company shall be subrogated to these rights and remedies in the proportion which the Company's payment bears to the whole amount of the loss.

If loss should result from any act of the insured claimant, as stated above, that act shall not void this policy, but the Company, in that event, shall be required to pay only that part of any losses insured against by this policy which shall exceed the amount, if any, lost to the Company by reason of the impairment by the insured claimant of the Company's right of subrogation.

(b) The Company's Rights Against Non-insured Obligors.

The Company's right of subrogation against non-insured obligors shall exist and shall include, without limitation, the rights of the insured to indemnities, guaranties, other policies of insurance or bonds, notwithstanding any terms or conditions contained in those instruments which provide for subrogation rights by reason of this policy.

14. ARBITRATION.

Unless prohibited by applicable law, either the Company or the insured may demand arbitration pursuant to the Title Insurance Arbitration Rules of the American Arbitration Association. Arbitrable matters may include, but are not limited to, any controversy or claim between the Company and the insured arising out of or relating to this policy, any service of the Company in connection with its issuance or the breach of a policy provision or other obligation. All arbitrable matters when the Amount of insurance is $1,000,000 or less shall be arbitrated at the option of either the Company or the insured. All arbitrable matters when the Amount of Insurance is in excess of $1,000,000 shall be arbitrated only when agreed to by both the Company and the insured. Arbitration pursuant to this policy and under the Rules in effect on the date the demand for arbitration is made or, at the option of the insured, the Rules in effect at Date of Policy shall be binding upon the parties. The award may include attorneys' fees only if the laws of the state in which the land is located permit a court to award attorneys' fees to a prevailing party. Judgment upon the award rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.

The law of the situs of the land shall apply to an arbitration under the Title Insurance Arbitration Rules.

A copy of the Rules may be obtained from the Company upon request.

15. LIABILITY LIMITED TO THIS POLICY; POLICY ENTIRE CONTRACT.

(a) This policy together with all endorsements, if any, attached hereto by the Company is the entire policy and contract between the insured and the Company. In interpreting any provision of this policy, this policy shall be construed as a whole.

(b) Any claim of loss or damage, whether or not based on negligence, and which arises out of the status of the title to the estate or interest covered hereby or by any action asserting such claim, shall be restricted to this policy.

(c) No amendment of or endorsement to this policy can be made except by a writing endorsed hereon or attached hereto signed by either the President, a Vice President, the Secretary, an Assistant Secretary, or validating officer or authorized signatory of the Company.

16. SEVERABILITY.

In the event any provision of the policy is held invalid or unenforceable under applicable law, the policy shall be deemed not to include that provision and all other provisions shall remain in full force and effect.

17. NOTICES, WHERE SENT.

All notices required to be given the Company and any statement in writing required to be furnished the Company shall include the number of this policy and shall be addressed to: Consumer Affairs Department, P.O. Box 27567, Richmond, Virginia 23261-7567.

Form B 1190-88

OWNER'S POLICY OF TITLE INSURANCE

American Land Title Association (10/17/92)

Issued by

Lawyers Title Insurance Corporation

Lawyers Title Insurance Corporation
is a member of the LandAmerica family of title insurance underwriters.

LandAmerica Lawyers Title

LandAmerica Financial Group, Inc.
101 Gateway Centre Parkway
Richmond, Virginia 23235-5153
www.landam.com

THANK YOU.

Title insurance provides for the protection of your real estate investment. We suggest you keep this policy in a safe place where it can be readily available for future reference.

If you have questions about title insurance or the coverage provided by this policy, contact the office that issued this policy, or you may call or write:

Lawyers Title Insurance Corporation
Consumer Affairs
P.O. Box 27567
Richmond, Virginia 23261-7567
telephone, toll free: 800 446-7086
web: www.landam.com

We thank you for choosing to do business with Lawyers Title Insurance Corporation, and look forward to meeting your future title insurance needs.

Lawyers Title Insurance Corporation
is a member of the LandAmerica family of title insurance underwriters.

LandAmerica Lawyers Title

APPENDIX D

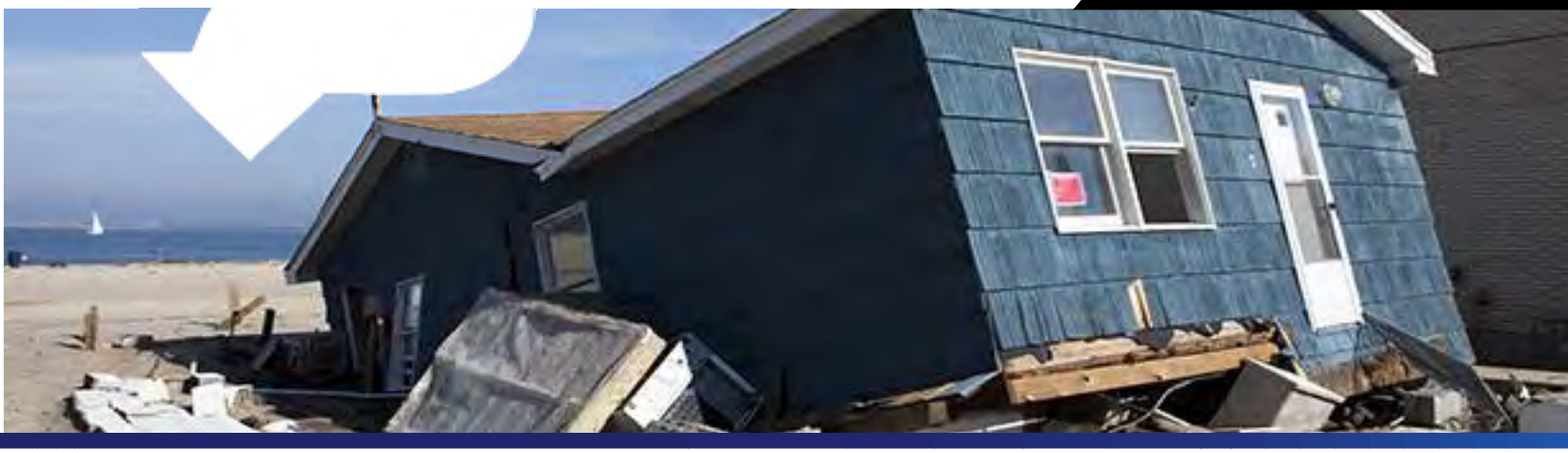
ERS Environmental LienResearch Report with Recorded Deeds

ENVIRONMENTAL RECORD SEARCH

"The Intelligent Choice"

Environmental Lien Research

REPORT RESULTS



Report Results for:

Sarah Richman
WestLand Resources
4001 E Paradise Falls Drive
Tucson, AZ 85712
2104669336 EL
June 27, 2016

ENVIRONMENTAL RECORD SEARCH

Subject Site:

Clients Project #: **807.118**
Address: **FR 416 and FR 2768**
City, State Zip: **Turkey Creek, AZ**

ERS Order #:

2104669336 EL

Prepared For:

Name: Sarah Richman
Company: WestLand Resources
Address: 4001 E Paradise Falls Drive
City, State Zip: Tucson**,** AZ 85712

Date:

June 27, 2016

The NETR Environmental Lien Search Report

TURKEY CREEK
GILA COUNTY, ARIZONA

Saturday, June 25, 2016

Project Number: L16-01684

2055 East Rio Salado Parkway
Tempe, Arizona 85281

Telephone: 480-967-6752
Fax: 480-966-9422

ENVIRONMENTAL LIEN REPORT

The NETR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied property information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' office, registries of deed, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved and description); and
- provide a copy of the deed or cite documents reviewed;

Thank you for your business
Please contact NETR at 480-967-6752
with any questions or comments

Disclaimer - Copyright and Trademark Notice

This report was prepared for the use of Nationwide Environmental Title Research, and Environmental Record Search , exclusively. This report is neither a guarantee of title, a commitment to insure, nor a policy of title insurance. **NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT.** Nationwide Environmental Title Research (NETR) specifically disclaims the making of any such warranties, including without limitation, merchantability or fitness for a particular use or purpose. The information contained in this report is retrieved as it is recorded from the various agencies that make it available. The total liability is limited to the fee paid for this report.

Copyright 2006 by Nationwide Environmental Title Research. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Nationwide Environmental Title Research, or its affiliates, is prohibited without prior written permission

NETR and its logos are trademarks of Nationwide Environmental Title Research or its affiliates. All other trademarks used herein are the property of their respective owners.

ENVIRONMENTAL LIEN REPORT

The NETR Environmental Lien Search Report is intended to assist in the search for environmental liens filed in land title records.

TARGET PROPERTY INFORMATION

ADDRESS

Turkey Creek
Gila County, Arizona

RESEARCH SOURCE

Source: Gila County Assessor
Gila County Recorder

DEED INFORMATION

Type of Instrument: Warranty Deed

Grantor: Fred M. Randall & Karen Randall, husband and wife, George C. Randall & Victoria Randall, husband and wife, and Robert G. Randall & Sally Randall, husband and wife

Grantee: Swift Current Land & Cattle LLC, an Arizona limited liability company

Deed Dated: 11/28/2005
Deed Recorded: 12/15/2005
Instrument: 2005-023123

LEGAL DESCRIPTION

Homestead Entry Survey No. 151 of Section 3, Township 7 North, Range 12 East of the Gila and Salt River Base and Meridian, Gila County, State of Arizona

Assessor's Parcel Number(s): 201-05-001

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

Documents provided by DataTree LLC via it's proprietary imaging and delivery system. Copyright 2003, All rights reserved.

RECORDING REQUESTED BY

AND WHEN RECORDED MAIL TO:

SWIFT CURRENT LAND & CATTLE
2338 W. ROYAL PALM RD., STE J
PHOENIX, AZ 85016

ESCROW NO.: **N0443066 - 001 - JM1**
002 08380

Gila County, AZ
Linda Haught Ortega, Recorder
12/15/2005
11:13AM
Doc Code: WD

Doc Id: 2005-023123
Receipt #: 40092
Rec Fee: 15.00

PIONEER TITLE AGENCY RECORDING

2005-023123
Page: 1 of 4
12/15/2005 11:13A
15.00

Gila County, AZ WD

SPACE ABOVE THIS LINE FOR RECORDER'S USE

Warranty Deed

For the consideration of Ten Dollars, and other valuable considerations, I or we,

FRED M. RANDALL AND KAREN RANDALL, husband and wife, as to an und. 1/3 interest;
***SEE BELOW FOR ADDITIONAL SELLERS
do/does hereby convey to

SWIFT CURRENT LAND & CATTLE LLC, an Arizona limited liability company

the following real property situated in Gila County, ARIZONA:

HOMESTEAD ENTRY SURVEY NO.. 151, GILA COUNTY, ARIZONA
**GEORGE C. RANDALL AND VICTORIA RANDALL, husband and wife, as to an und. 1/3 int;
ROBERT G. RANDALL AND SALLY RANDALL, husband and wife, as to an und. 1/3 interest

SUBJECT TO: Current taxes and other assessments, reservations in patents and all easements, rights of way, encumbrances, liens, covenants, conditions, restrictions, obligations, and liabilities as may appear of record.

And I or we do warrant the title against all persons whomsoever, subject to the matters set forth above.

Dated: November 28, 2005

SELLERS:

Fred M. Randall
FRED M. RANDALL

Karen Randall
KAREN RANDALL

Documents provided by DataTree LLC via it's proprietary imaging and delivery system. Copyright 2003, All rights reserved.

Escrow No.: **N0443066 - 001 - JM1**

Gila County, AZ WD
2005-023123
Page: 2 of 4
12/15/2005 11:13A
15.00

ROBERT G. RANDALL

SALLY RANDALL

GEORGE C. RANDALL

VICTORIA RANDALL

State of _____
County of _____ } SS

This instrument was acknowledged before me this _____
day of _____
by. **BP & A HOLDINGS, INC., AS INTERMEDIARY FOR. and .**

_____
Notary Public
My commission will expire _____

Documents provided by DataTree LLC via it's proprietary imaging and delivery system. Copyright 2003, All rights reserved.

Escrow No.: **N0443066 - 001 - JM1**

State of Arizona
County of Gila } SS

This instrument was acknowledged before me this 13th day of December 2005 by. **FRED M. RANDALL AND KAREN RANDALL**

Kimberly Turney
Notary Public
My commission will expire April 1, 2006

OFFICIAL SEAL
KIMBERLY TURNEY
NOTARY PUBLIC - State of Arizona
GILA COUNTY
My Comm. Expires April 1, 2006

State of Arizona
County of Gila } SS

This instrument was acknowledged before me this 13th day of December 2005 by, ROBERT G. RANDALL AND SALLY RANDALL

Kimberly Turney
Notary Public
My commission will expire April 1, 2006

OFFICIAL SEAL
KIMBERLY TURNEY
NOTARY PUBLIC - State of Arizona
GILA COUNTY
My Comm. Expires April 1, 2006

Documents provided by DataTree LLC via it's proprietary imaging and delivery system. Copyright 2003, All rights reserved.

2005-023123
Page: 4 of 4
12/15/2005 11:13A
15.00
Gila County, AZ WD

State of Arizona
County of Gila } SS

This instrument was acknowledged before me this 13th day of December 2005 by. **GEORGE C. RANDALL AND VICTORIA RANDALL**

Kimberly Turney
Notary Public

My commission will expire April 1, 2006

OFFICIAL SEAL
KIMBERLY TURNEY
NOTARY PUBLIC - State of Arizona
GILA COUNTY
My Comm. Expires April 1, 2006

jurat

APPENDIX E

ERC RecCheck Area Report Results

ERS
ENVIRONMENTAL RECORD SEARCH

ERS
ENVIRONMENTAL RECORD SEARCH
"The Intelligent Choice"

RecCheck Area Report Results

The Standard for ASTM/AAI Radius Searches
(One Mile Environmental Records Search, Exceeds ASTM 1527/1528 and EPA All Appropriate Inquiry)

REPORT RESULTS

Site Location:

Fr 416 And Fr 2768
Turkey Creek, AZ 85553
(N 33-58-41, W 111-6-56) NAD83

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

TABLE OF CONTENTS

EXECUTIVE SUMMARY 1
SUMMARY OF OCCURRENCES 3
POTENTIAL AREAS OF CONCERN/CONTAMINATION SUMMARY 4
DATABASE OCCURRENCE SUMMARY 4
SITE LOCATION TOPOGRAPHIC MAP 9
SITE LOCATION MAP 10
1-MILE RADIUS STREET MAP W/OCCURRENCES (MAP1) 11
GRID LAYOUT MAP KEY 12
GRID MAP 101 13
GRID MAP 102 14
GRID MAP 103 15
GRID MAP 104 16
GRID MAP 105 17
GRID MAP 106 18
GRID MAP 107 19
GRID MAP 108 20
GRID MAP 109 21
GRID MAP 110 22
GRID MAP 111 23
GRID MAP 112 24
GRID MAP 113 25
GRID MAP 114 26
GRID MAP 115 27
GRID MAP 116 28
1-MILE TOPOGRAPHIC MAP W/OCCURRENCES (MAP3) 29
AGENCY DIFFERENCES IN MAPPED LOCATIONS (MAP4) 30
SUMMARY OF AGENCY DIFFERENCES 31
MAPPED AIR PERMITS WITH POTENTIAL DISPERSION (MAP5) 32
LISTED OCCURRENCE DETAILS 33
RECORDS SOURCES SEARCHED 34

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

UN-MAPPABLE OCCURRENCES 81

DISCLAIMER, LIMITS AND LIABILITIES 84

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

EXECUTIVE SUMMARY

INFORMATION ON THE REQUESTED LOCATION

Site Address:	Fr 416 And Fr 2768 Turkey Creek, AZ 85553
Client Project Name/Number:	Turkey Creek Phase I ESA 807.118
Coordinates:	N 33-58-41, W 111-6-56 (NAD 83) 33.9781607325261, -111.115535313982
Date of Report	June 23, 2016
ERS Project Number:	2104669335
Subject Site Listed on the following lists:	Not Listed
Subject Site Listed as Map ID#:	N/A
USGS 7.5 Minute Quad Map:	Copper Mountain
Subject Site Located within a Potential Area of Concern:	No
Township, Section and Range:	Township: 07N Range: 12E Section: 003
Site Elevation: (feet above or below (-) mean sea level)	Approximately 5401 ft near the center of the area.
Flood Zone: (FEMA Q3 Digital Data)	Panel: 04007C0975D, Effective Date: 12/4/2007 Zone D - Areas with possible but undetermined flood hazards. No flood hazard analysis has been conducted. Flood insurance rates are commensurate with the uncertainty of the flood risk.
Fire Insurance Map Coverage:	No
Radon Information:	EPA Radon Zone: 2 (Predicted avg for county: 2 to 4 pCi/L)
Search Radius Expansion Size: (In Miles)	0
Soil Type: (USDA Soil Survey Geographic Database) (SSURGO)	SPUDROCK 40% to 65% slopes, 40% of total ROMBO 40% to 60% slopes, 30% of total ROCK OUTCROP 80% to 99% slopes, 30% of total

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Zip Codes Searched for "Un-Mappable" Sites:	85553, 85554
Occurrence Count:	0

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

SUMMARY OF OCCURRENCES

MAP ID	ID/SITE NAME	ADDRESS	DATABASE	STATUS	DISTANCE (MILES)	ELEV DIFF (FEET)
N/A						

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

POTENTIAL AREAS OF CONCERN/CONTAMINATION SUMMARY

DATABASE SEARCHED	SUBJECT SITE WITHIN POTENTIAL AREA OF CONCERN	AREAS FOUND WITHIN 1-MILE RADIUS
Brownfields-AZ	No	0
Close-WQARF-AZ	No	0
NPL-R9-US	No	0
DOD-AZ	No	0
EpaNPL-AZ	No	0
WQARF-AZ	No	0

DATABASE OCCURRENCE SUMMARY

HIGH RISK* OCCURRENCES IDENTIFIED IN REQUESTED SEARCH RADIUS		
DATABASE SEARCHED	DISTANCE SEARCHED (MILES)	HIGH RISK OCCURRENCES FOUND
ASPL-AZ	0.5	0
BF-Open-AZ	0.5	0
CERCLIS-US	0.5	0
LUST-Open-AZ	0.5	0
NPL-US	1	0
Proposed-NPL-US	1	0
RemOther-Open-AZ	0.5	0
SAA-Agreements-US	1	0
Tribal-LUST-Open-Reg9	0.5	0
VCP-Open-AZ	0.5	0

* For the purposes of this report, "high risk" occurrences are those that have known contamination and have not received a "case closed" or "no further action" status from the agency that maintains the records.

ASTM/AAI STANDARD RECORD SOURCES SUMMARY				
STANDARD ENVIRONMENTAL RECORD SOURCES	ASTM MIN. SEARCH DIST. / ERS SEARCH DIST. (MILES)	ERS DATABASE NAME	TOTAL LISTINGS	MAP ID #'S
Federal NPL site list	1.0 / 1.0	NPL-US	0	None Listed
		Proposed-NPL-US	0	None Listed
Federal Delisted NPL site list	0.5 / 1.0	Delisted-NPL-US	0	None Listed
Federal CERCLIS list	0.5 / 0.5	CERCLIS-US	0	None Listed
Federal CERCLIS NFRAP site list	0.5 / 0.5	CERCLIS-Archived-US	0	None Listed
Federal RCRA CORRACTS facilities list	1.0 / 1.0	RCRA-COR-US	0	None Listed
Federal RCRA non-CORRACTS TSD facilities list	0.5 / 0.5	RCRA-TSD-US	0	None Listed
Federal RCRA generators list	Property and	RCRA-CESQG-US	0	None Listed

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

	adjoining properties / 0.25			
		RCRA-LQG-US	0	None Listed
		RCRA-NON-US	0	None Listed
		RCRA-SQG-US	0	None Listed
Federal Inst/Eng control registries	Property Only / 0.25	Controls-RCRA-US	0	None Listed
		Controls-US	0	None Listed
		Hist-US-EC	0	None Listed
		Hist-US-IC	0	None Listed
		LIENS-US	0	None Listed
Federal ERNS list	Property Only / 0.0625	ERNS-US	0	None Listed
State and Tribal-Equivalent NPL	1.0 / 1.0	Not Reported by Agency	0	None Listed
State and Tribal-Equivalent CERCLIS	0.5 / 0.5	ASPL-AZ	0	None Listed
		SS-AZ	0	None Listed
State and Tribal landfill and/or solid waste disposal sites	0.5 / 0.5	ALF-AZ	0	None Listed
		CLF-AZ	0	None Listed
		Debris-US	0	None Listed
		Hist-Dumps-US	0	None Listed
		Transfer-AZ	0	None Listed
		Tribal-ODI-US	0	None Listed
State and Tribal Leaking Storage Tank Lists	0.5 / 0.5	LUST-Closed-AZ	0	None Listed
		LUST-Open-AZ	0	None Listed
		Tribal-LUST-Closed-Reg9	0	None Listed
		Tribal-LUST-Open-Reg9	0	None Listed
State and Tribal Registered Storage Tank Lists	Property and adjoining properties / 0.25	AST2-AZ	0	None Listed
		AST-AZ	0	None Listed
		FEMA-UST-US	0	None Listed
		Tribal-UST-Reg9	0	None Listed
		UST-AZ	0	None Listed
State and Tribal Inst/Eng Control Registries	Property Only / 0.5	Controls-AZ	0	None Listed
State and Tribal Voluntary Cleanup Sites	0.5 / 0.5	Tribal-VCP-US	0	None Listed
		VCP-Closed-AZ	0	None Listed
		VCP-Open-AZ	0	None Listed
State and Tribal Brownfield Sites	0.5 / 0.5	BF-Closed-AZ	0	None Listed
		BF-Open-AZ	0	None Listed
		BF-US	0	None Listed
		Tribal-BF-US	0	None Listed

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

FEDERAL ASTM/AAI DATABASES							
DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
BF-US	0.5	0	0	0	0	-	0
CERCLIS-Archived-US	0.5	0	0	0	0	-	0
CERCLIS-US	0.5	0	0	0	0	-	0
Controls-RCRA-US	0.5	0	0	0	0	-	0
Controls-US	0.5	0	0	0	0	-	0
Debris-US	0.5	0	0	0	0	-	0
Delisted-NPL-US	1	0	0	0	0	0	0
ERNS-US	0.0625	0	0	-	-	-	0
FEMA-UST-US	0.25	0	0	0	-	-	0
FTTS-ENF-US	0.0625	0	0	-	-	-	0
Hist-Dumps-US	0.5	0	0	0	0	-	0
Hist-US-EC	0.5	0	0	0	0	-	0
Hist-US-IC	0.5	0	0	0	0	-	0
HMIS-US	0.0625	0	0	-	-	-	0
LIENS-US	0.0625	0	0	-	-	-	0
NPL-US	1	0	0	0	0	0	0
PADS-US	0.0625	0	0	-	-	-	0
PCB-US	0.25	0	0	0	-	-	0
Proposed-NPL-US	1	0	0	0	0	0	0
RCRA-CESQG-US	0.25	0	0	0	-	-	0
RCRA-COR-US	1	0	0	0	0	0	0
RCRA-LQG-US	0.25	0	0	0	-	-	0
RCRA-NON-US	0.25	0	0	0	-	-	0
RCRA-SQG-US	0.25	0	0	0	-	-	0
RCRA-TSD-US	0.5	0	0	0	0	-	0
SAA-Agreements-US	1	0	0	0	0	0	0
Tribal-BF-US	0.5	0	0	0	0	-	0
Tribal-LUST-Closed-Reg9	0.5	0	0	0	0	-	0
Tribal-LUST-Open-Reg9	0.5	0	0	0	0	-	0
Tribal-ODI-US	0.5	0	0	0	0	-	0
Tribal-UST-Reg9	0.25	0	0	0	-	-	0
Tribal-VCP-US	0.5	0	0	0	0	-	0

STATE ASTM/AAI DATABASES							
DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
ALF-AZ	0.5	0	0	0	0	-	0
ASPL-AZ	0.5	0	0	0	0	-	0
AST2-AZ	0.25	0	0	0	-	-	0
AST-AZ	0.25	0	0	0	-	-	0
BF-Closed-AZ	0.5	0	0	0	0	-	0
BF-Open-AZ	0.5	0	0	0	0	-	0
CLF-AZ	0.5	0	0	0	0	-	0
Controls-AZ	0.5	0	0	0	0	-	0
Hist-SPILLS-AZ	0.0625	0	0	-	-	-	0
LUST-Closed-AZ	0.5	0	0	0	0	-	0
LUST-Open-AZ	0.5	0	0	0	0	-	0
Manifest2-RI	0.0625	0	0	-	-	-	0
Oil-Centers-AZ	0.5	0	0	0	0	-	0
RemOther-Closed-AZ	0.5	0	0	0	0	-	0
RemOther-Open-AZ	0.5	0	0	0	0	-	0
SS-AZ	0.5	0	0	0	0	-	0

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

STATE ASTM/AAI DATABASES

DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
Transfer-AZ	0.5	0	0	0	0	-	0
UST-AZ	0.25	0	0	0	-	-	0
VCP-Closed-AZ	0.5	0	0	0	0	-	0
VCP-Open-AZ	0.5	0	0	0	0	-	0

SUPPLEMENTAL DATABASES

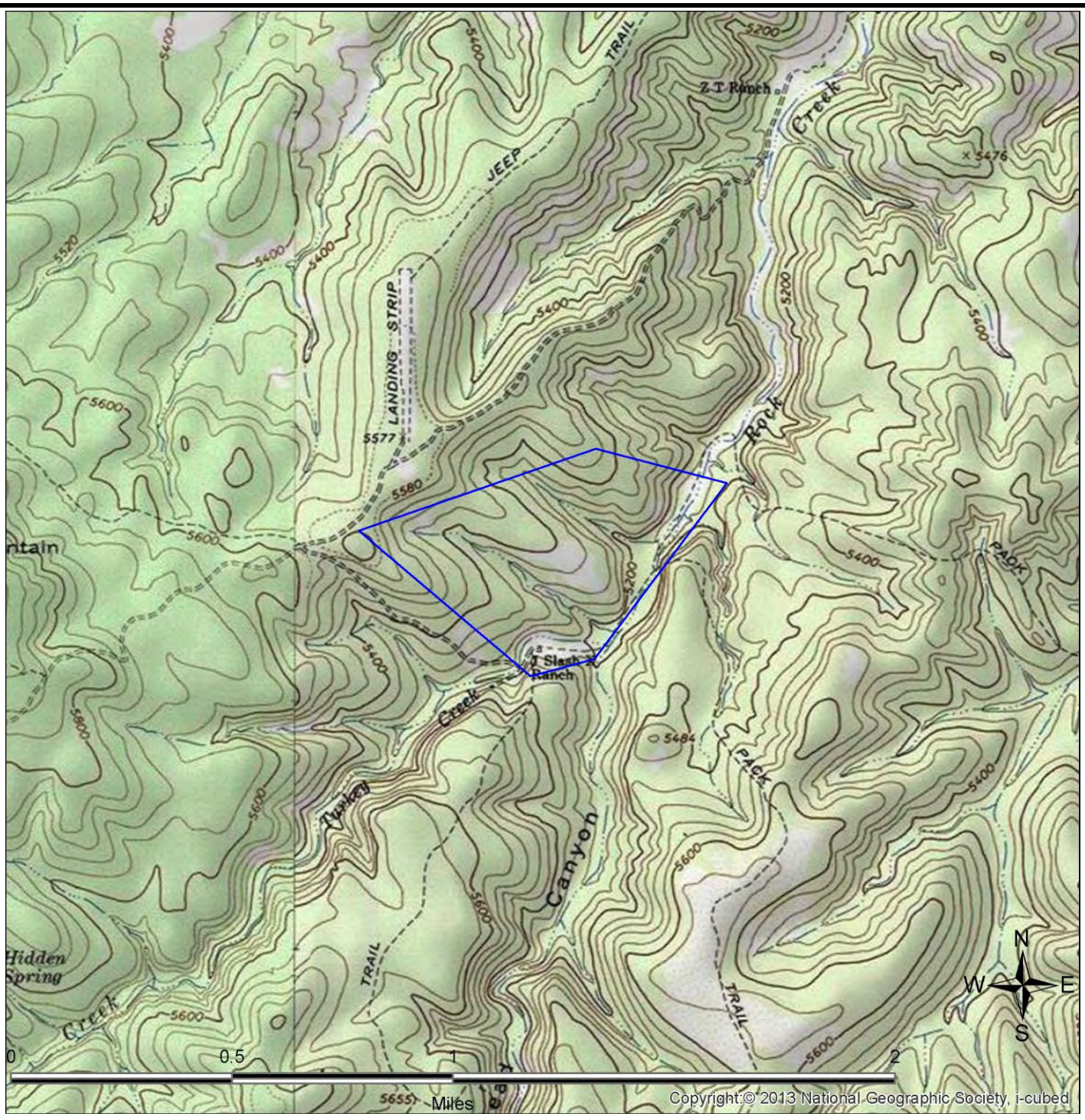
DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
Air-AZ	0.25	0	0	0	-	-	0
Allfac-AZ	0.25	0	0	0	-	-	0
BioFuel-US	0.25	0	0	0	-	-	0
CDL-AZ	0.0625	0	0	-	-	-	0
CDL-US	0.0625	0	0	-	-	-	0
Coal-Ash-AZ	0.5	0	0	0	0	-	0
Coal-Ash-Dams-US	0.5	0	0	0	0	-	0
Dams-AZ	0.25	0	0	0	-	-	0
DryCleaners-AZ	0.25	0	0	0	-	-	0
DryWell-AZ	0.25	0	0	0	-	-	0
EGRID-US	0.5	0	0	0	0	-	0
EPA-Watch-List-US	0.25	0	0	0	-	-	0
FA-HW-US	0.0625	0	0	-	-	-	0
FA-UST-AZ	0.0625	0	0	-	-	-	0
FRS-US	0.0625	0	0	-	-	-	0
FTTS-INSP-US	0.0625	0	0	-	-	-	0
FUDS-US	1	0	0	0	0	0	0
Hist-AFS2-US	0.25	0	0	0	-	-	0
Hist-AFS-US	0.25	0	0	0	-	-	0
Hist-AZ	0.0625	0	0	-	-	-	0
Hist-DryWells-AZ	0.25	0	0	0	-	-	0
Hist-FIFRA-US	0.25	0	0	0	-	-	0
Hist-LUST-AZ	0.25	0	0	0	-	-	0
HIST-MLTS-US	0.25	0	0	0	-	-	0
Hist-US	0.0625	0	0	-	-	-	0
Hist-UST-AZ	0.25	0	0	0	-	-	0
ICIS-Air-US	0.0625	0	0	-	-	-	0
ICIS-FEC-US	0.0625	0	0	-	-	-	0
ICIS-NPDES-US	0.0625	0	0	-	-	-	0
Lead-Smelter-2-US	0.25	0	0	0	-	-	0
Lead-US	0.25	0	0	0	-	-	0
Mines-AZ	0.0625	0	0	-	-	-	0
MINES-US	0.0625	0	0	-	-	-	0
MLTS-US	0.0625	0	0	-	-	-	0
MRDS-US	0.25	0	0	0	-	-	0
NPDES-AZ	0.0625	0	0	-	-	-	0
OGW-AZ	0.0625	0	0	-	-	-	0
PCS-US	0.25	0	0	0	-	-	0
RADINFO-US	0.0625	0	0	-	-	-	0
RFG-Lab-US	0.25	0	0	0	-	-	0
RMP-US	0.0625	0	0	-	-	-	0
ROD-US	0.5	0	0	0	0	-	0
SDWIS-US	0.25	0	0	0	-	-	0
SSTS-US	0.0625	0	0	-	-	-	0
SWT-AZ	0.25	0	0	0	-	-	0

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

SUPPLEMENTAL DATABASES							
DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
Tribal-Air-US	0.25	0	0	0	-	-	0
TRIS2000-US	0.0625	0	0	-	-	-	0
TRIS2010-US	0.0625	0	0	-	-	-	0
TRIS80-US	0.0625	0	0	-	-	-	0
TRIS90-US	0.0625	0	0	-	-	-	0
TSCA-US	0.0625	0	0	-	-	-	0
UIC-AZ	0.0625	0	0	-	-	-	0
UMTRA-US	0.0625	0	0	-	-	-	0
USGS-Waterwells-US	0.0625	0	0	-	-	-	0
Vapor-Intrusions-US	0.5	0	0	0	0	-	0
Waste-tire-AZ	0.5	0	0	0	0	-	0
Wells-AZ	0.0625	0	0	-	-	-	0

PROPRIETARY HISTORIC DATABASES							
DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
Hist-Agriculture	0.0625	0	0	-	-	-	0
Hist-Auto Dealers	0.0625	0	0	-	-	-	0
Hist-Auto Repair	0.25	0	0	0	-	-	0
Hist-Chemical Manufacturing	0.0625	0	0	-	-	-	0
Hist-Chemical-Storage	0.0625	0	0	-	-	-	0
Hist-Cleaners	0.25	0	0	0	-	-	0
Hist-Convenience	0.0625	0	0	-	-	-	0
Hist-Disposal-Recycle	0.0625	0	0	-	-	-	0
Hist-Food-Processors	0.0625	0	0	-	-	-	0
Hist-Gun-Ranges	0.0625	0	0	-	-	-	0
Hist-Machine Shop	0.0625	0	0	-	-	-	0
Hist-Manufacturing	0.0625	0	0	-	-	-	0
Hist-Metal Plating	0.0625	0	0	-	-	-	0
Hist-Mining	0.0625	0	0	-	-	-	0
Hist-Mortuaries	0.0625	0	0	-	-	-	0
Hist-Oil-Gas	0.0625	0	0	-	-	-	0
Hist-OilGas-Refiners	0.0625	0	0	-	-	-	0
Hist-Paint-Stores	0.0625	0	0	-	-	-	0
Hist-Petroleum	0.0625	0	0	-	-	-	0
Hist-Post-Offices	0.0625	0	0	-	-	-	0
Hist-Printers	0.0625	0	0	-	-	-	0
Hist-Rental	0.0625	0	0	-	-	-	0
Hist-RV-Dealers	0.0625	0	0	-	-	-	0
Hist-Salvage	0.0625	0	0	-	-	-	0
Hist-Service Stations	0.25	0	0	0	-	-	0
Hist-Steel-Metals	0.0625	0	0	-	-	-	0
Hist-Textile	0.0625	0	0	-	-	-	0
Hist-Transportation	0.0625	0	0	-	-	-	0
Hist-Trucking	0.0625	0	0	-	-	-	0
Hist-Vehicle-Parts	0.0625	0	0	-	-	-	0
Hist-Vehicle-Washing	0.0625	0	0	-	-	-	0

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved



SITE LOCATION TOPOGRAPHIC MAP

U.S. Geological Survey. Copper Mountain Quadrangle, 7.5 Minute Series

WestLand Resources	Fr 416 And Fr 2768 Turkey Creek, AZ 85553	FIGURE: 1 JOB: 807.118 DATE: 6/23/2016

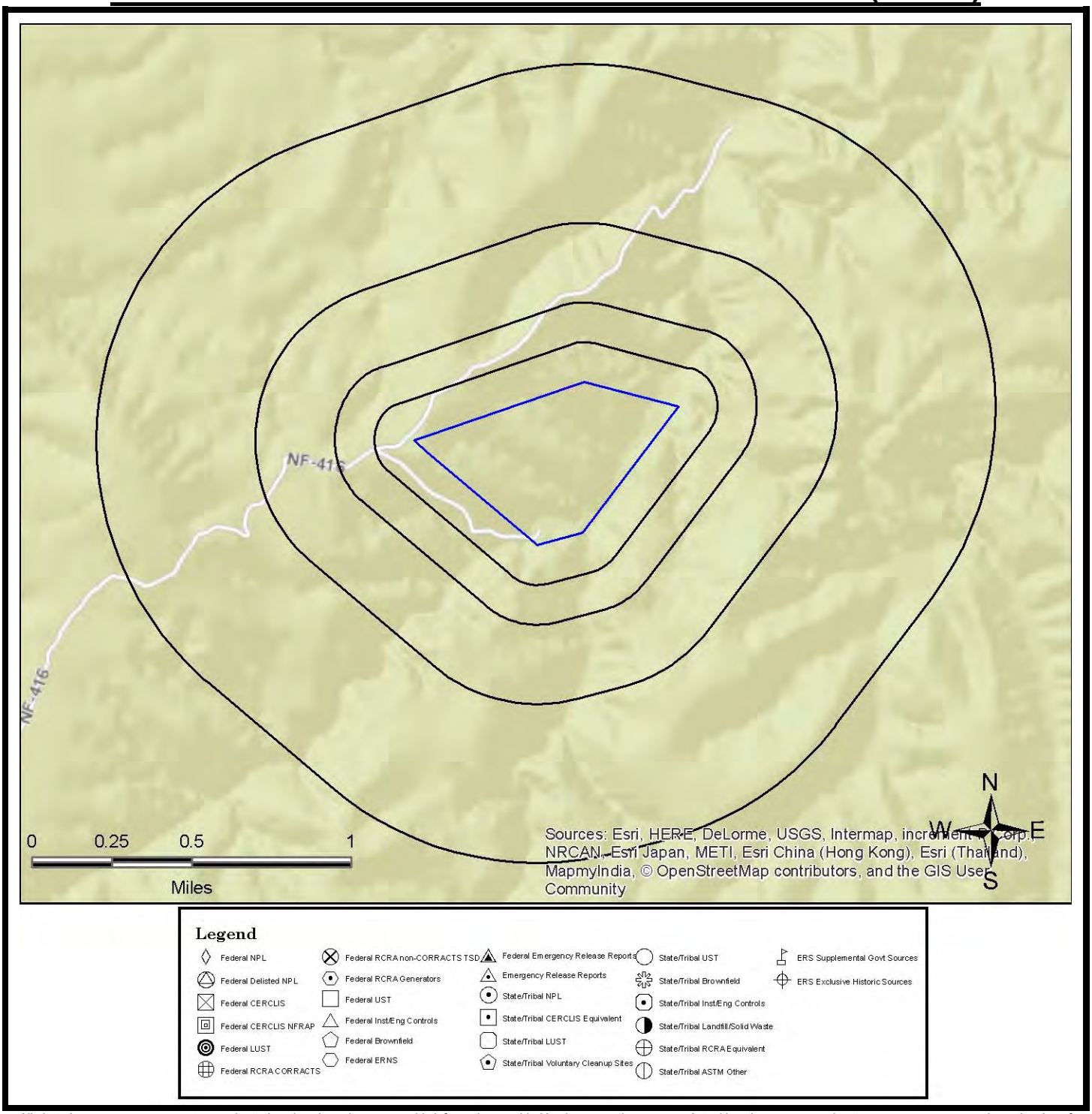
Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

SITE LOCATION MAP

WestLand Resources	Fr 416 And Fr 2768 Turkey Creek, AZ 85553	FIGURE: 2 JOB: 807.118 DATE: 6/23/2016

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

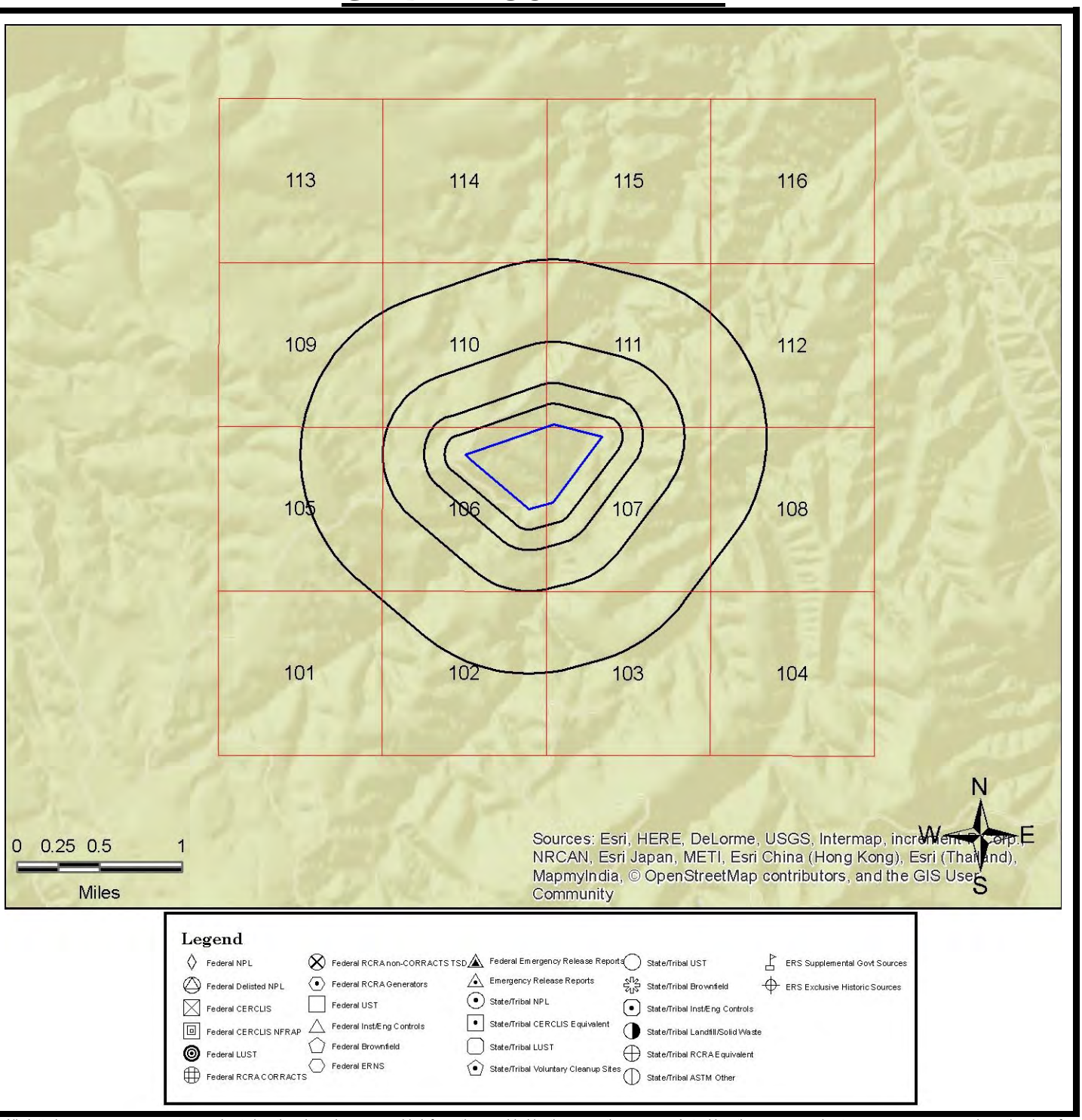
1-MILE RADIUS STREET MAP W/OCCURRENCES (MAP1)



All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

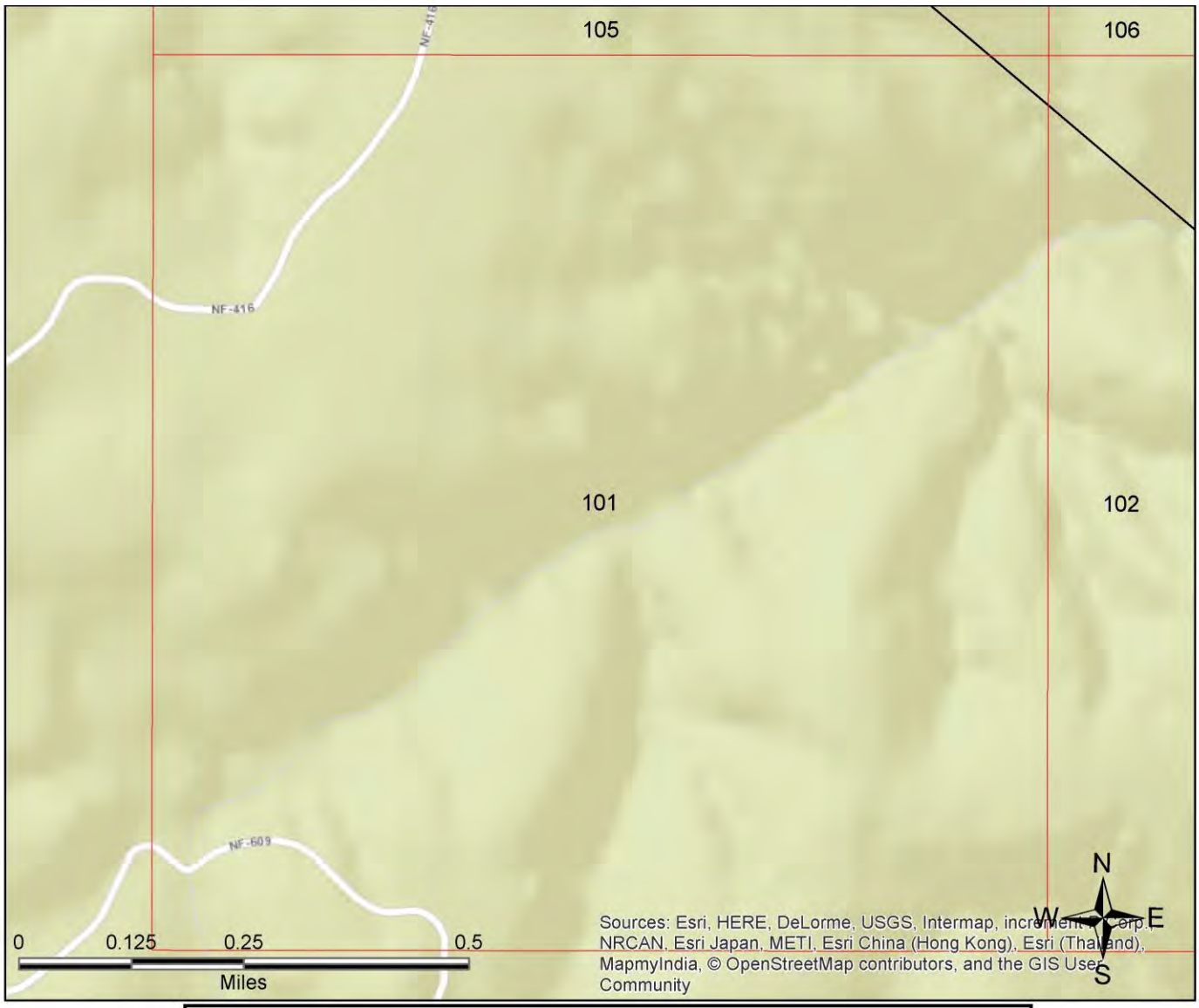
GRID LAYOUT MAP KEY



All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

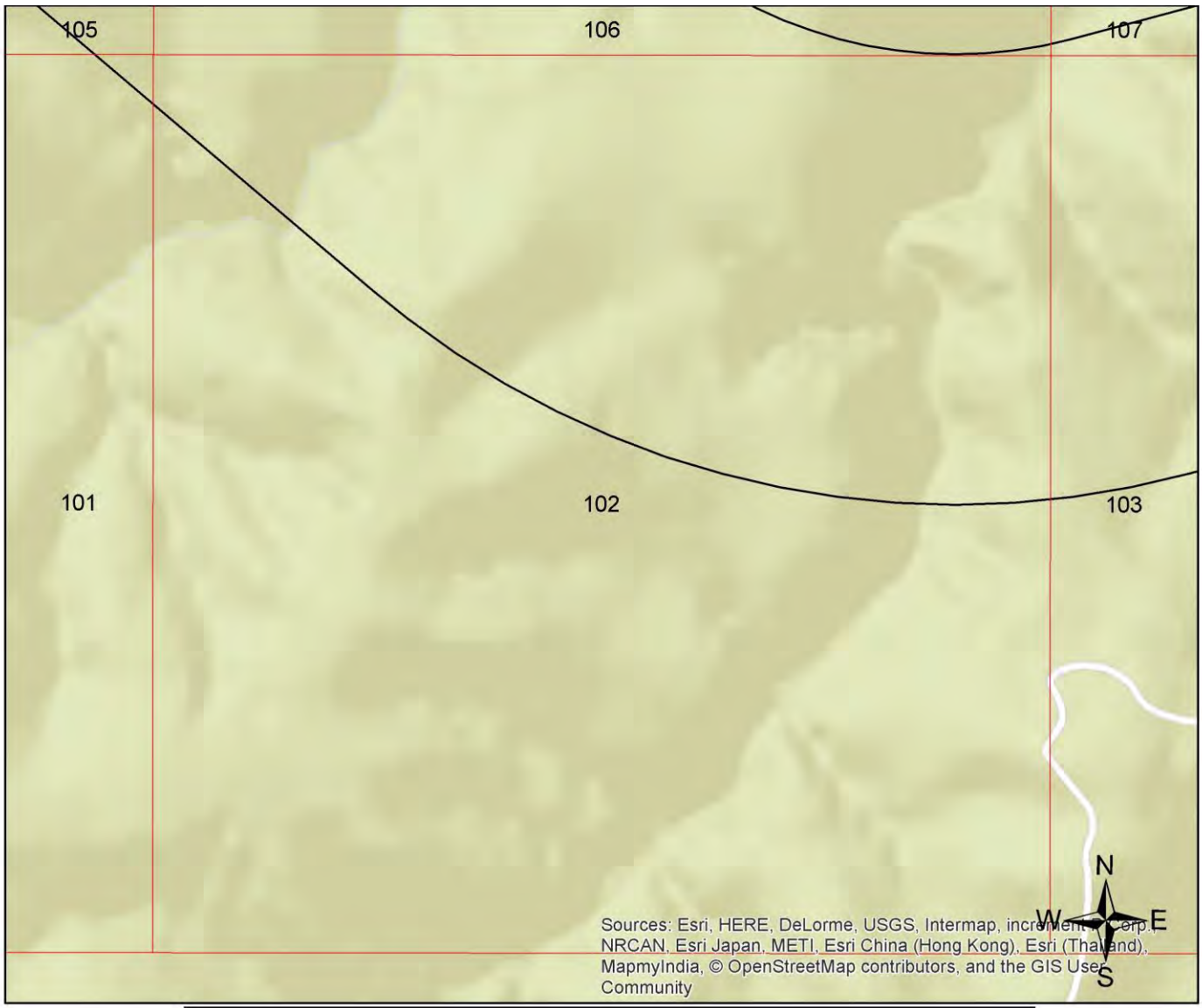
GRID MAP 101



All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

GRID MAP 102



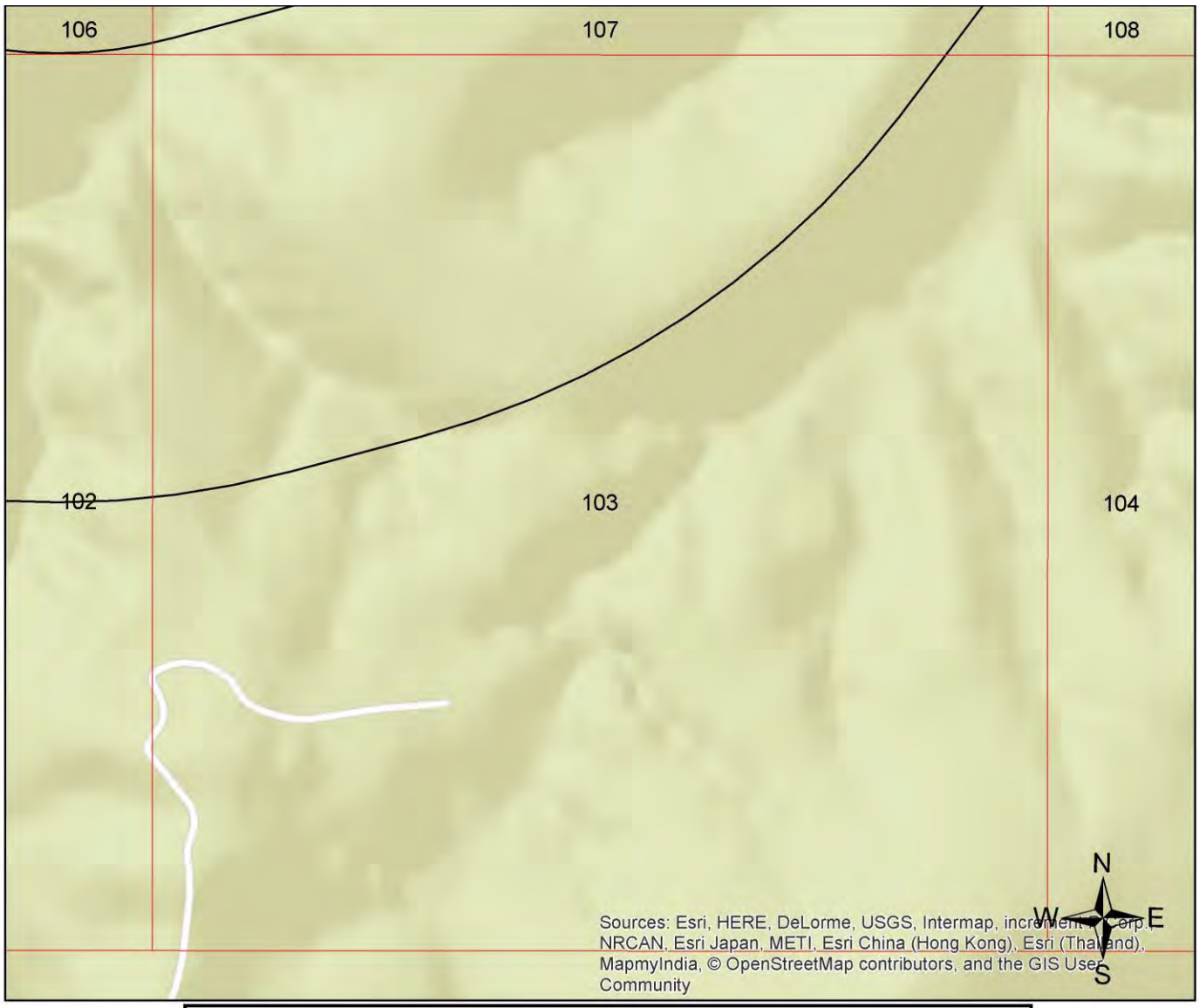
Legend

- Federal NPL
- Federal Delisted NPL
- Federal CERCLIS
- Federal CERCLIS NFRAP
- Federal LUST
- Federal RCRA CORRACTS
- Federal RCRA non-CORRACTS TSD
- Federal RCRA Generators
- Federal UST
- Federal Inst/Eng Controls
- Federal Brownfield
- Federal ERNS
- Federal Emergency Release Reports
- Emergency Release Reports
- State/Tribal NPL
- State/Tribal CERCLIS Equivalent
- State/Tribal LUST
- State/Tribal Voluntary Cleanup Sites
- State/Tribal UST
- State/Tribal Brownfield
- State/Tribal Inst/Eng Controls
- State/Tribal Landfill/Solid Waste
- State/Tribal RCRA Equivalent
- State/Tribal ASTM Other
- ERS Supplemental Govt Sources
- ERS Exclusive Historic Sources

All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

GRID MAP 103



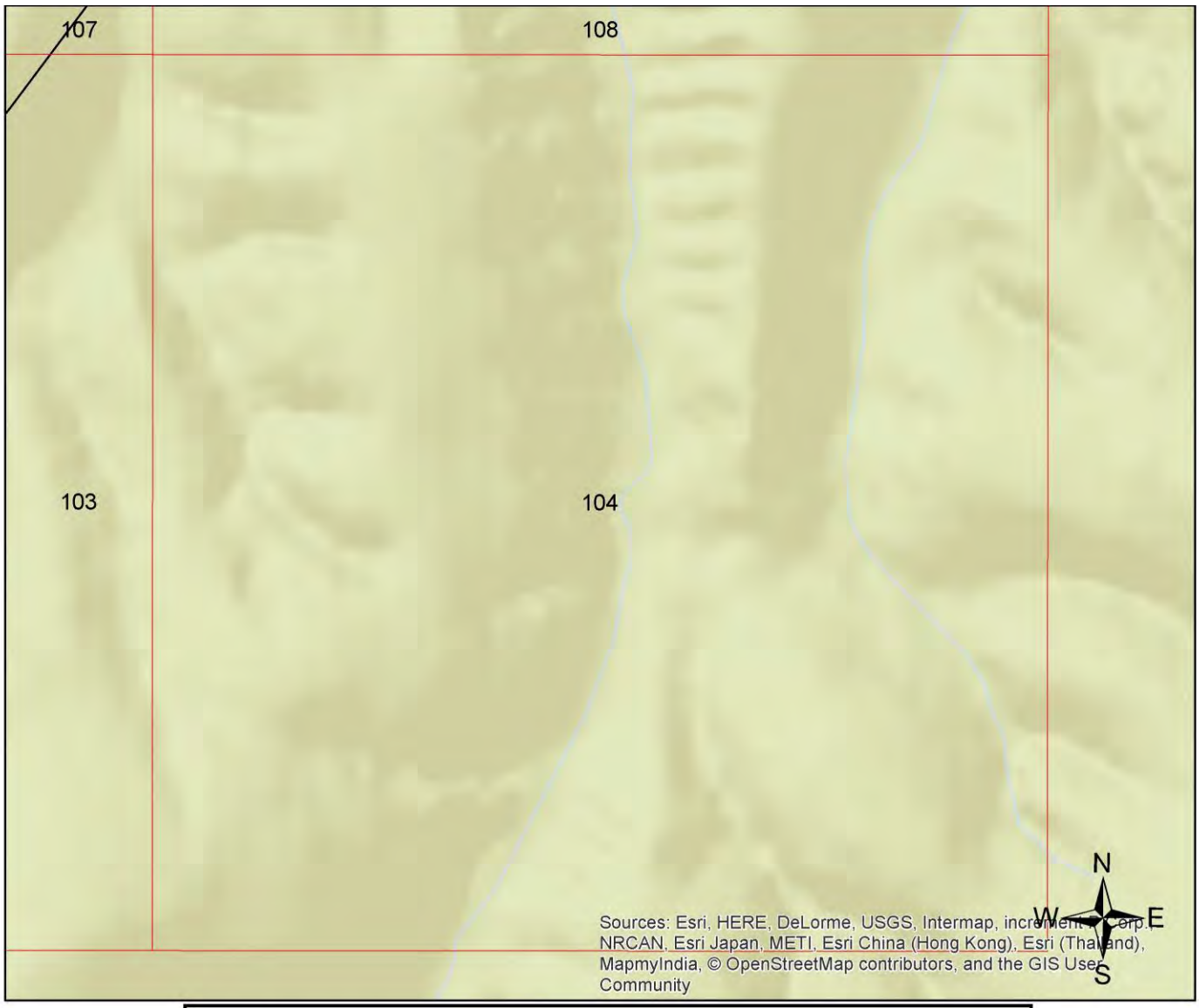
Legend

- Federal NPL
- Federal Delisted NPL
- Federal CERCLIS
- Federal CERCLIS NFRAP
- Federal LUST
- Federal RCRA CORRACTS
- Federal RCRA non-CORRACTS TSD
- Federal RCRA Generators
- Federal UST
- Federal Inst/Eng Controls
- Federal Brownfield
- Federal ERNS
- Federal Emergency Release Reports
- Emergency Release Reports
- State/Tribal NPL
- State/Tribal CERCLIS Equivalent
- State/Tribal LUST
- State/Tribal Voluntary Cleanup Sites
- State/Tribal UST
- State/Tribal Brownfield
- State/Tribal Inst/Eng Controls
- State/Tribal Landfill/Solid Waste
- State/Tribal RCRA Equivalent
- State/Tribal ASTM Other
- ERS Supplemental Govt Sources
- ERS Exclusive Historic Sources

All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

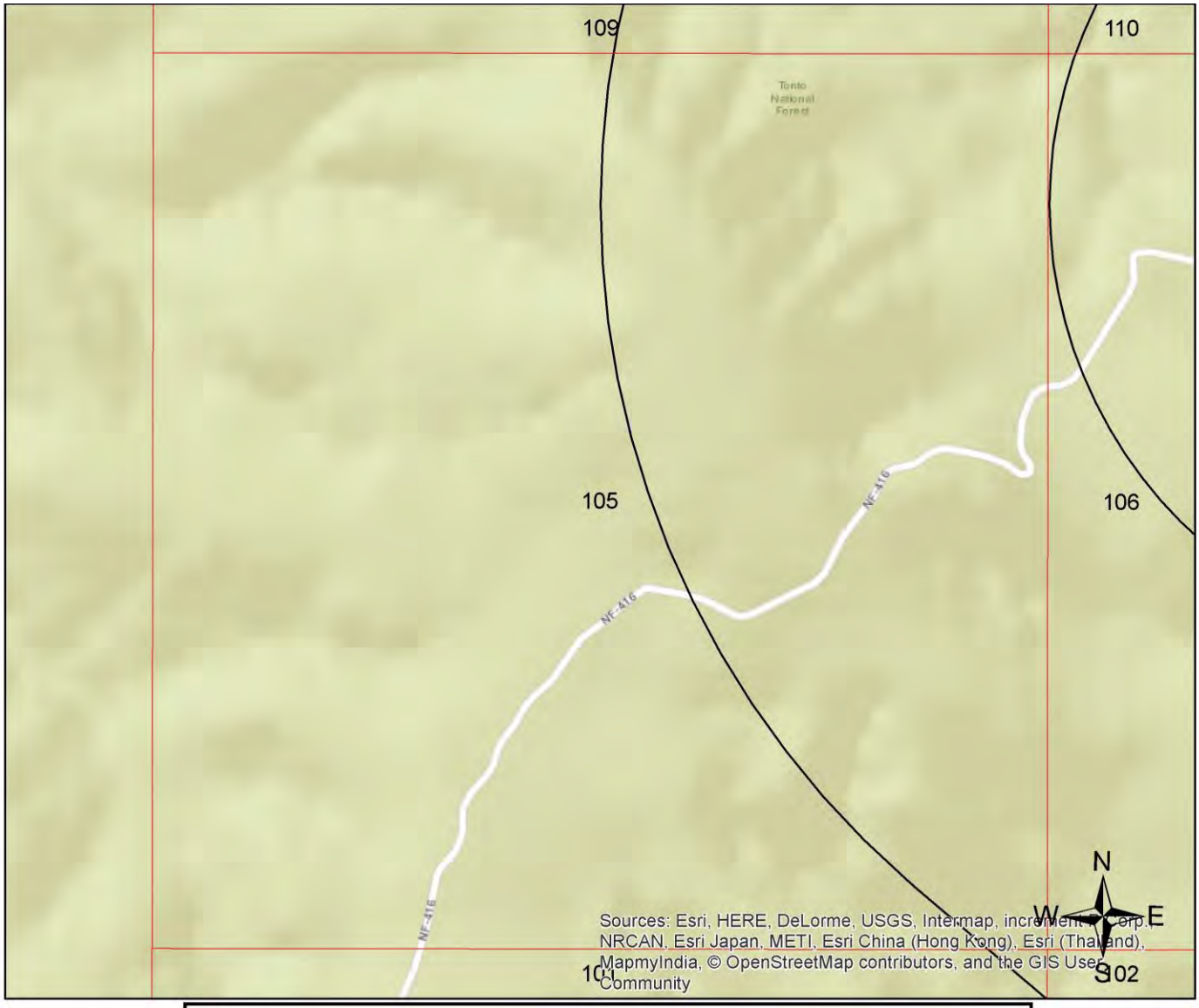
GRID MAP 104



All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

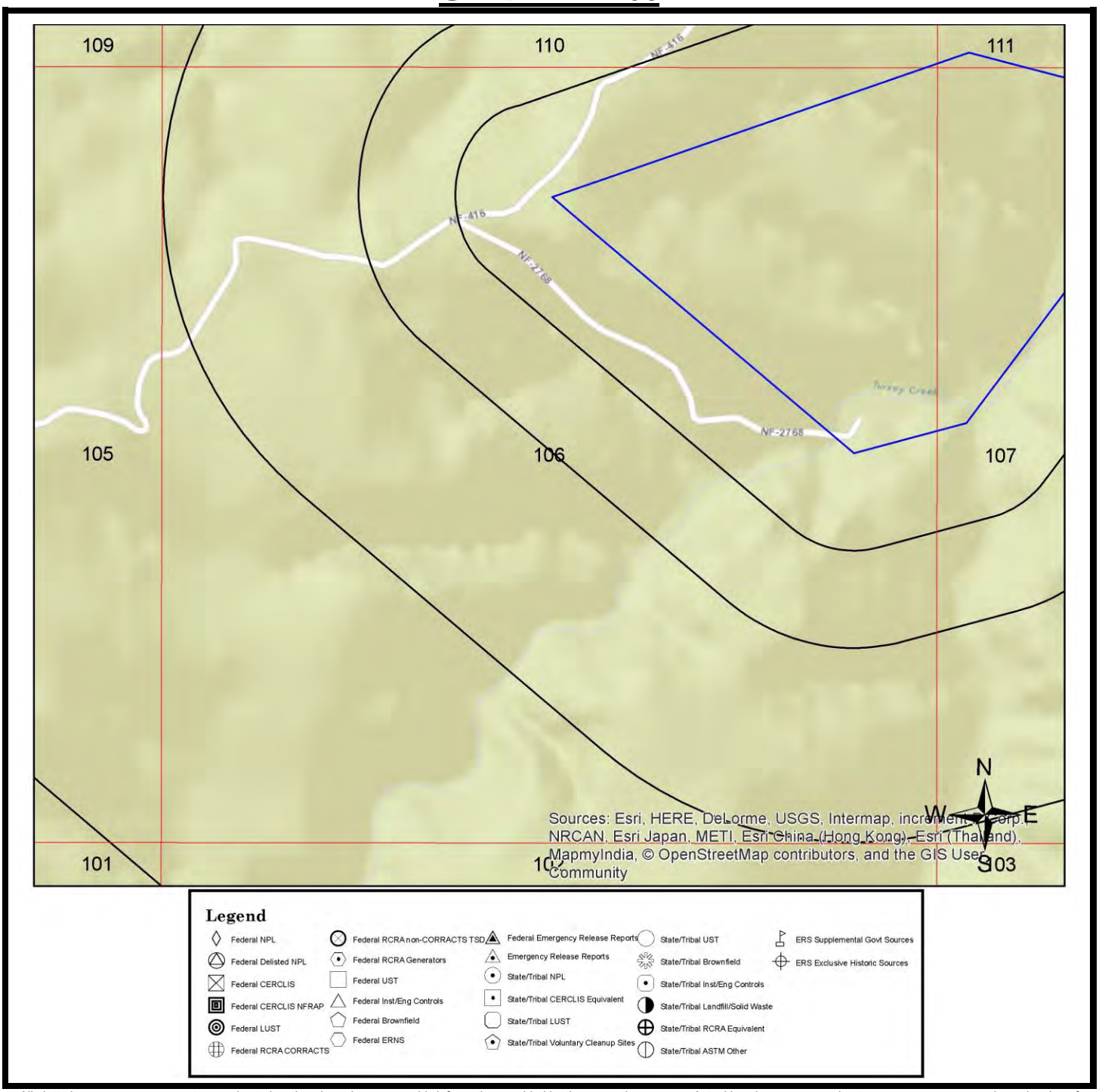
GRID MAP 105



All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

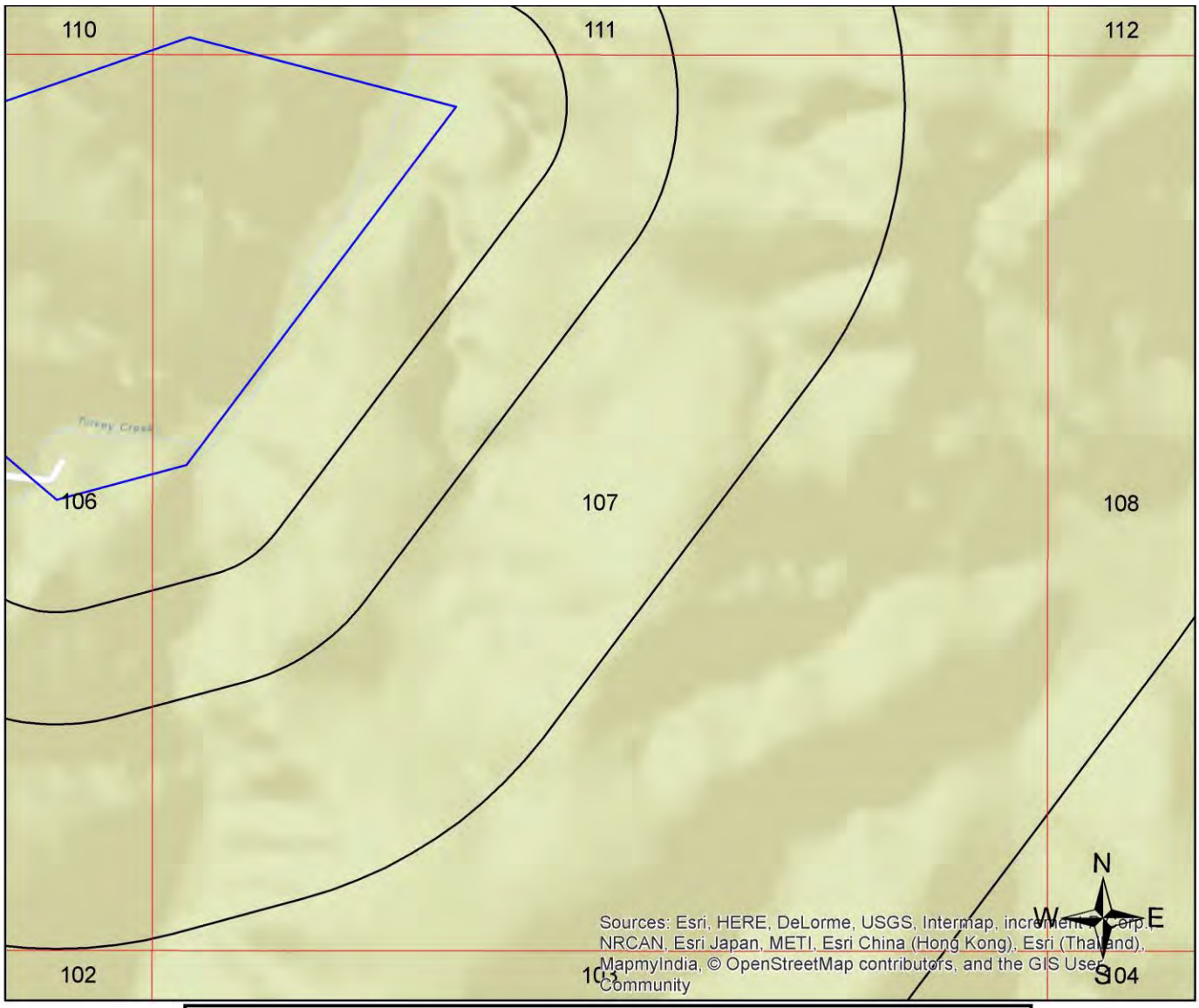
GRID MAP 106



All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

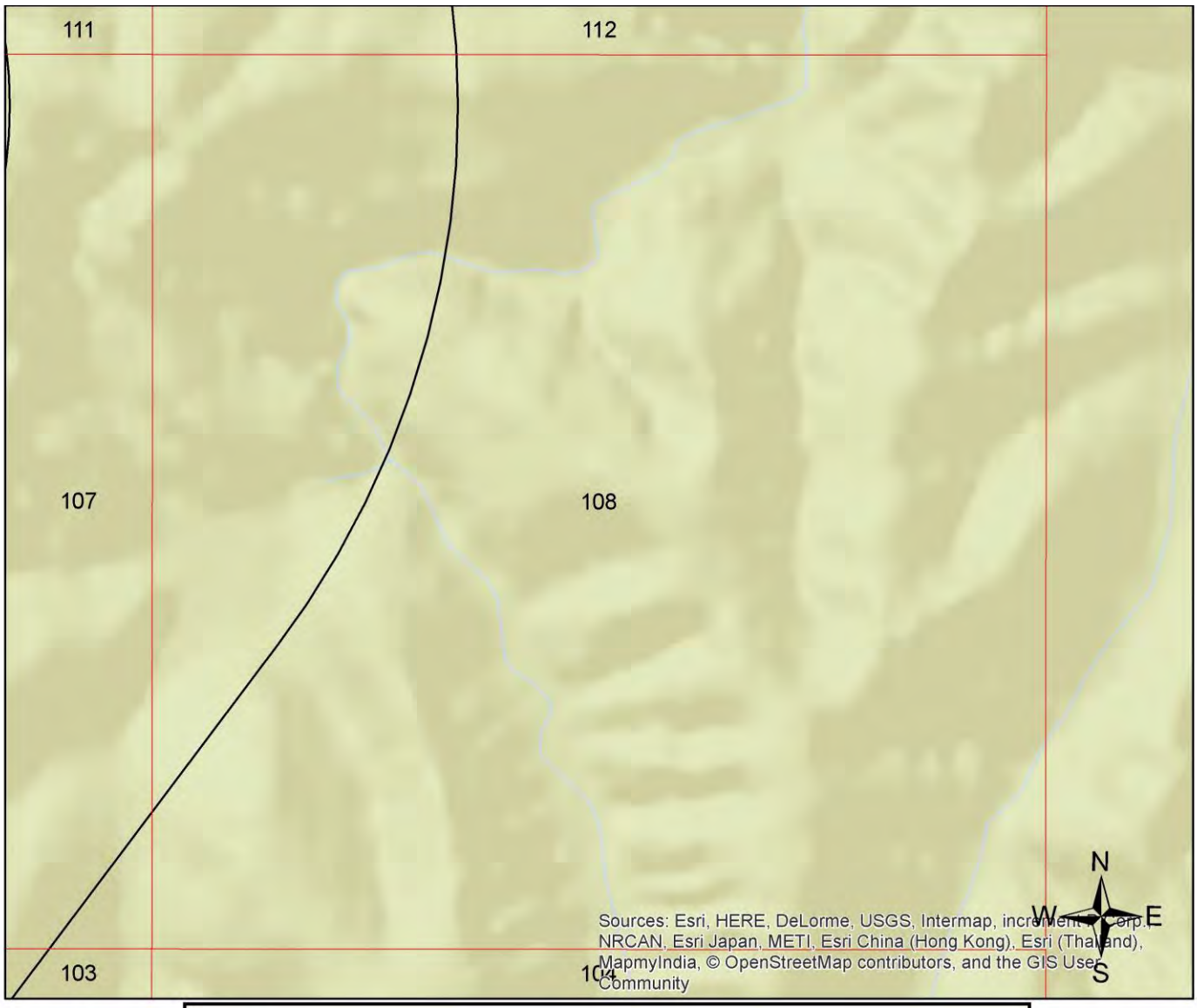
GRID MAP 107



All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in YELLOW have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

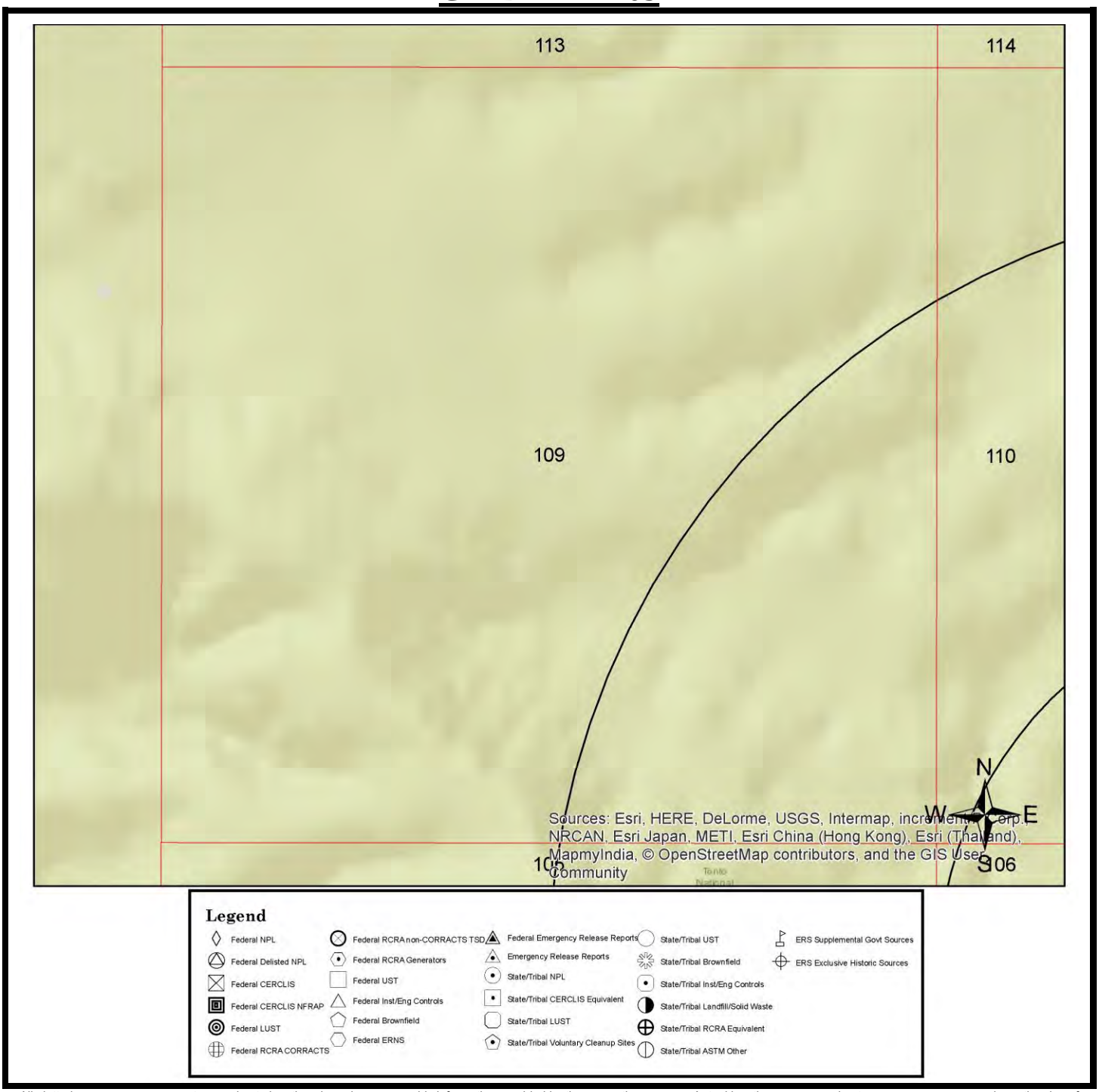
GRID MAP 108



All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

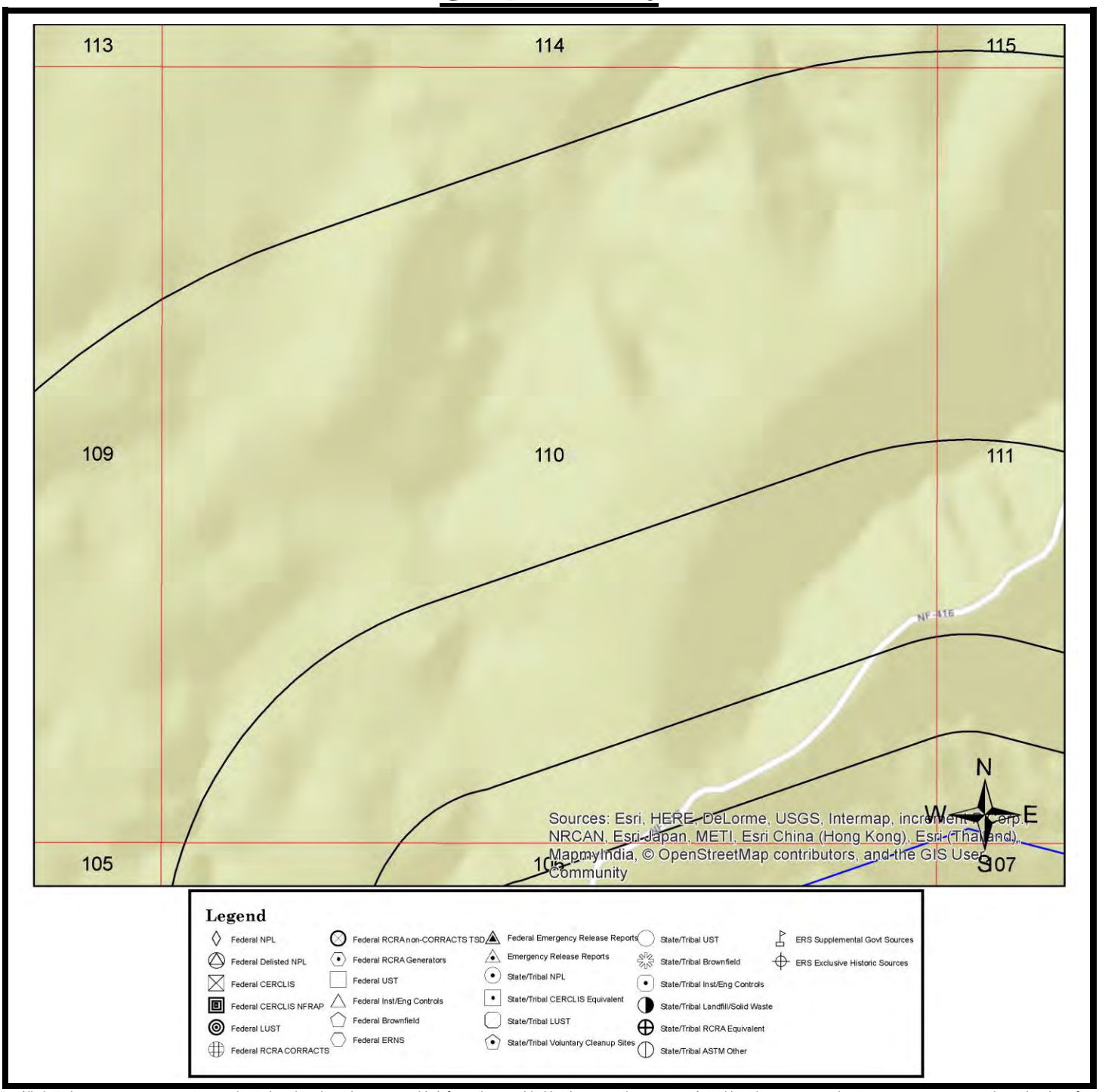
GRID MAP 109



All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

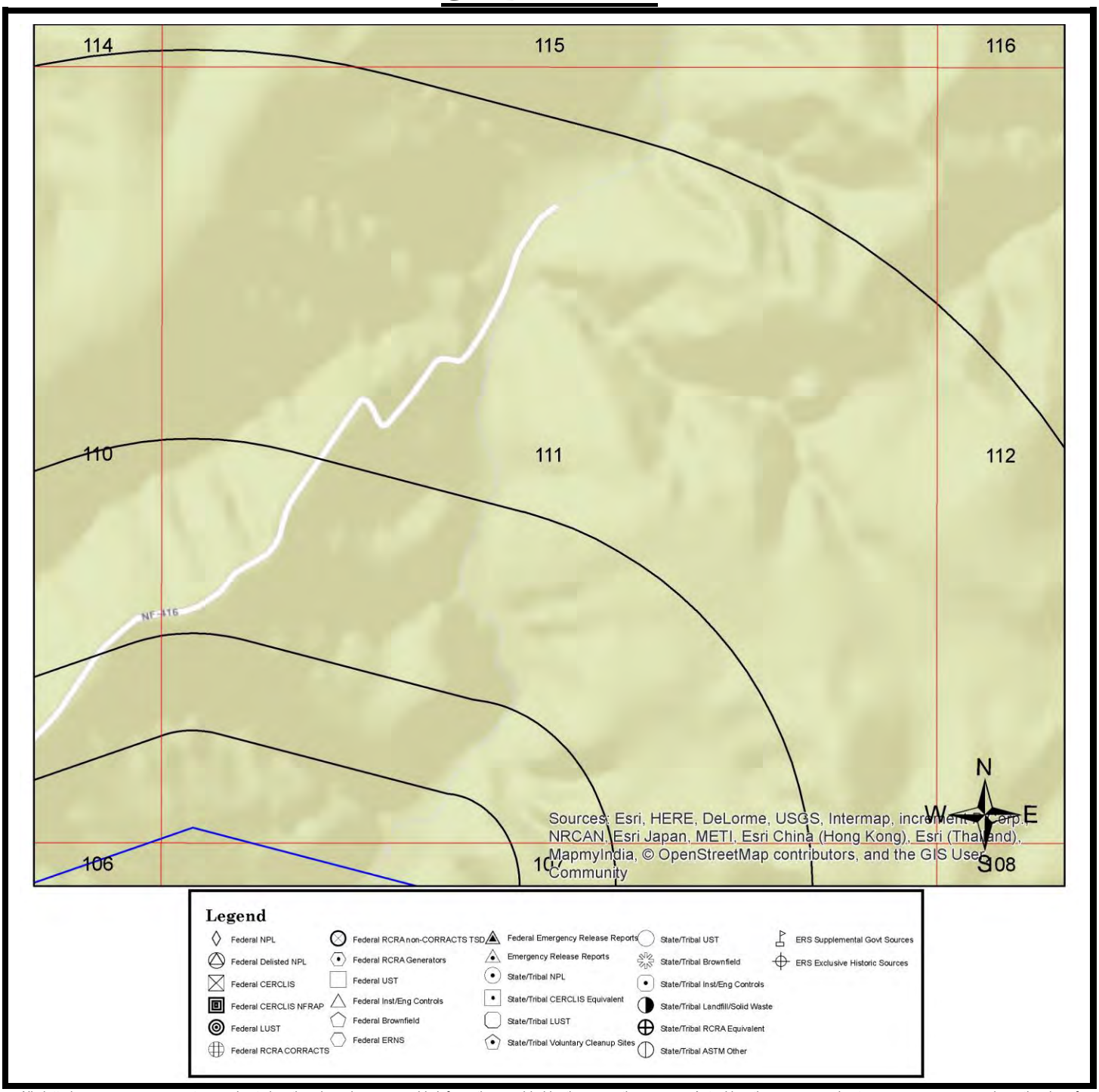
GRID MAP 110



All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

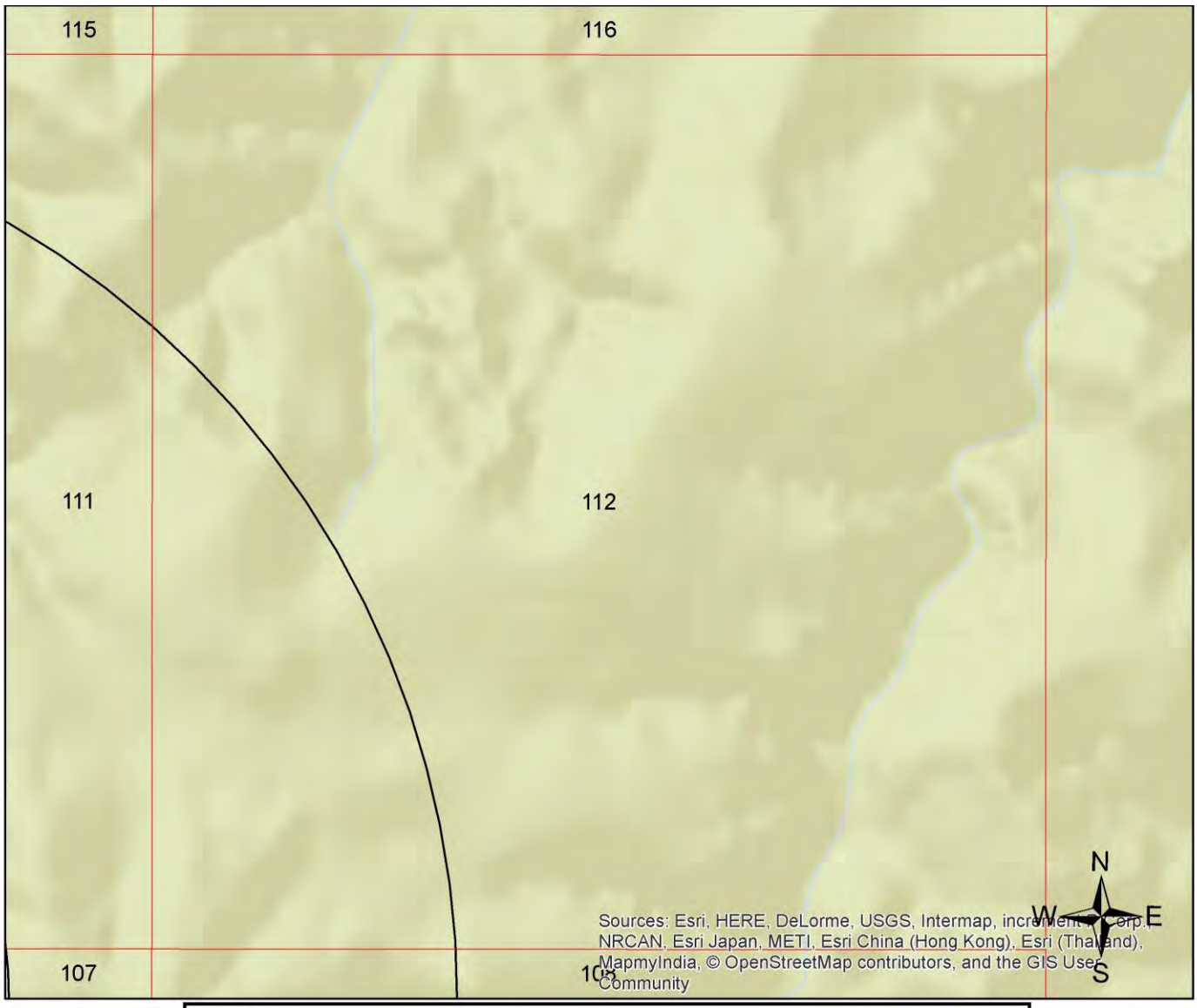
GRID MAP 111



All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

GRID MAP 112



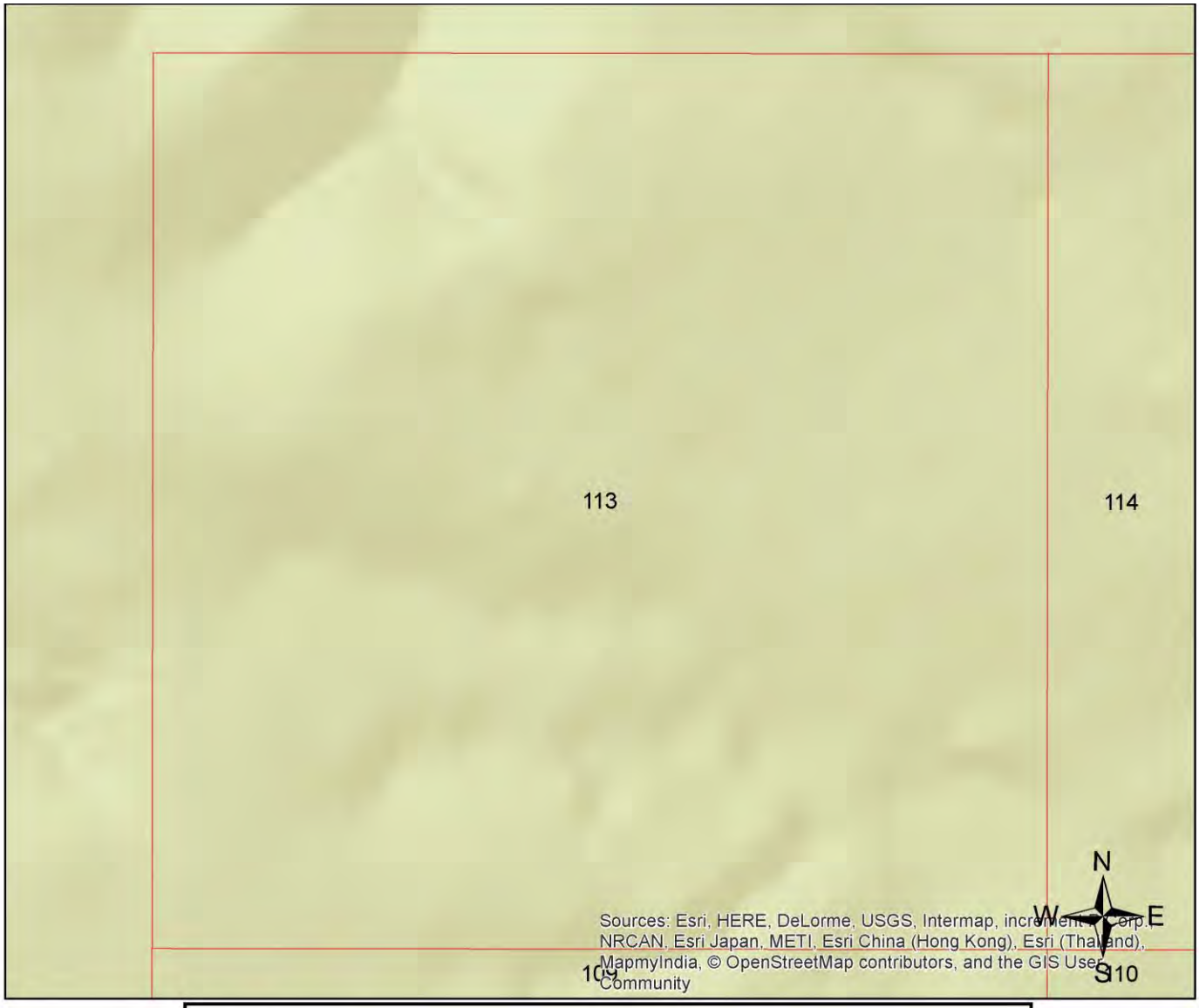
Legend

- Federal NPL
- Federal Delisted NPL
- Federal CERCLIS
- Federal CERCLIS NFRAP
- Federal LUST
- Federal RCRA CORRACTS
- Federal RCRA non-CORRACTS TSD
- Federal RCRA Generators
- Federal UST
- Federal Inst/Eng Controls
- Federal Brownfield
- Federal ERNS
- Federal Emergency Release Reports
- Emergency Release Reports
- State/Tribal NPL
- State/Tribal CERCLIS Equivalent
- State/Tribal LUST
- State/Tribal Voluntary Cleanup Sites
- State/Tribal UST
- State/Tribal Brownfield
- State/Tribal Inst/Eng Controls
- State/Tribal Landfill/Solid Waste
- State/Tribal RCRA Equivalent
- State/Tribal ASTM Other
- ERS Supplemental Govt Sources
- ERS Exclusive Historic Sources

All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

GRID MAP 113



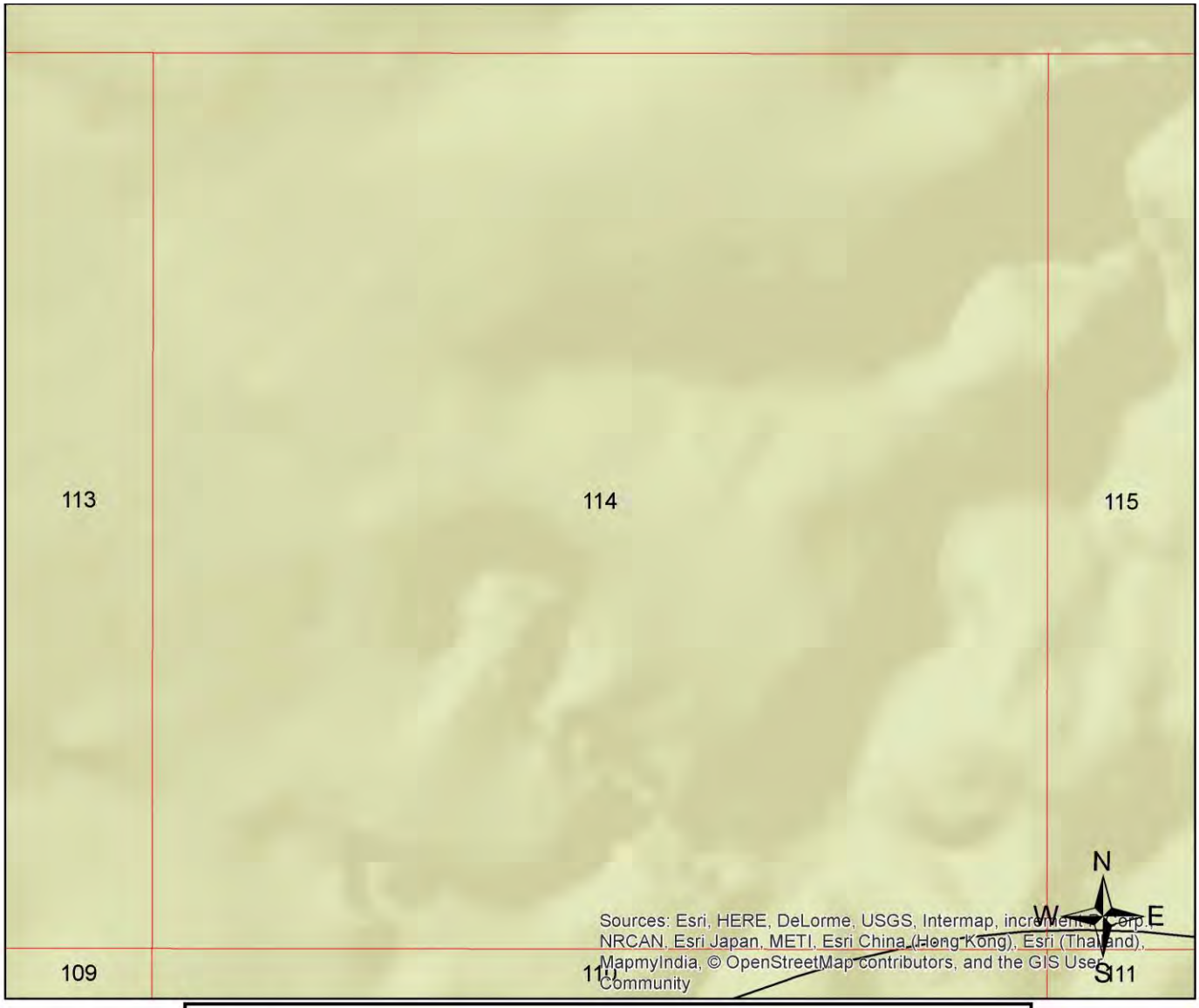
Legend

- Federal NPL
- Federal Delisted NPL
- Federal CERCLIS
- Federal CERCLIS NFRAP
- Federal LUST
- Federal RCRA CORRACTS
- Federal RCRA non-CORRACTS TSD
- Federal RCRA Generators
- Federal UST
- Federal Inst/Eng Controls
- Federal Brownfield
- Federal ERNS
- Federal Emergency Release Reports
- Emergency Release Reports
- State/Tribal NPL
- State/Tribal CERCLIS Equivalent
- State/Tribal LUST
- State/Tribal Voluntary Cleanup Sites
- State/Tribal UST
- State/Tribal Brownfield
- State/Tribal Inst/Eng Controls
- State/Tribal Landfill/Solid Waste
- State/Tribal RCRA Equivalent
- State/Tribal ASTM Other
- ERS Supplemental Govt Sources
- ERS Exclusive Historic Sources

All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

GRID MAP 114



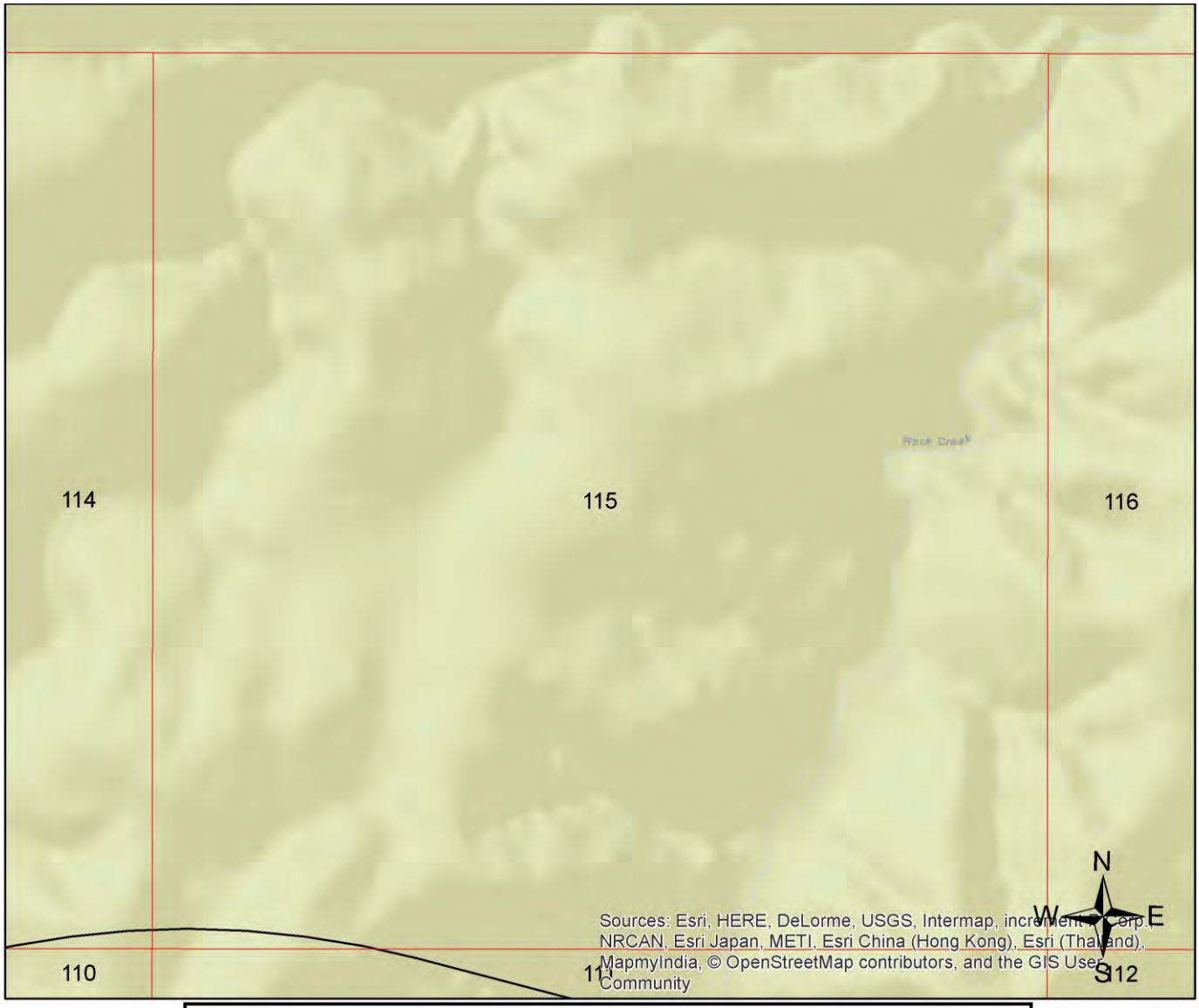
Legend

- Federal NPL
- Federal Delisted NPL
- Federal CERCLIS
- Federal CERCLIS NFRAP
- Federal LUST
- Federal RCRA CORRACTS
- Federal RCRA non-CORRACTS TSD
- Federal RCRA Generators
- Federal UST
- Federal Inst/Eng Controls
- Federal Brownfield
- Federal ERNS
- Federal Emergency Release Reports
- Emergency Release Reports
- State/Tribal NPL
- State/Tribal CERCLIS Equivalent
- State/Tribal LUST
- State/Tribal Voluntary Cleanup Sites
- State/Tribal UST
- State/Tribal Brownfield
- State/Tribal Inst/Eng Controls
- State/Tribal Landfill/Solid Waste
- State/Tribal RCRA Equivalent
- State/Tribal ASTM Other
- ERS Supplemental Govt Sources
- ERS Exclusive Historic Sources

All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

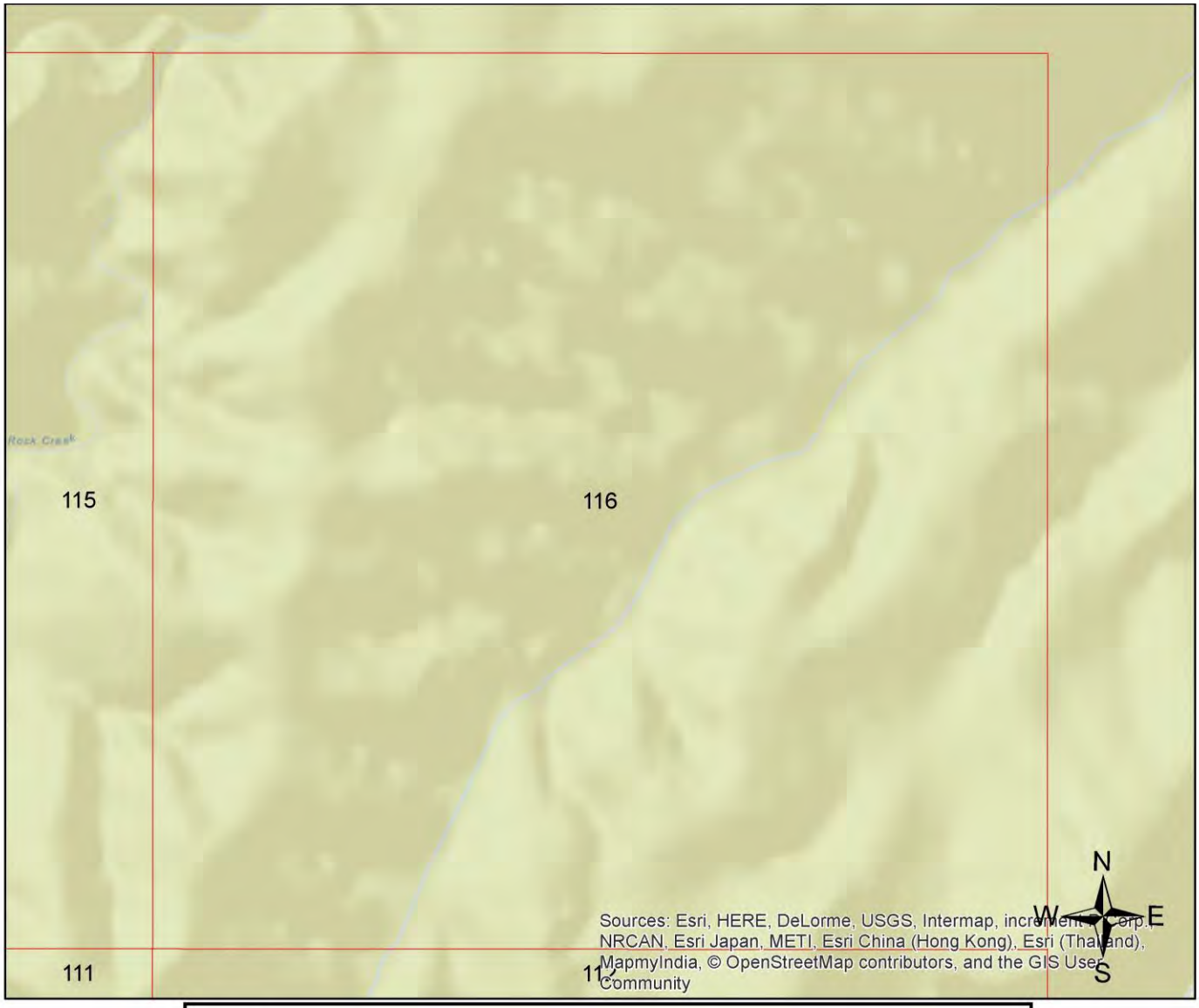
GRID MAP 115



All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

GRID MAP 116



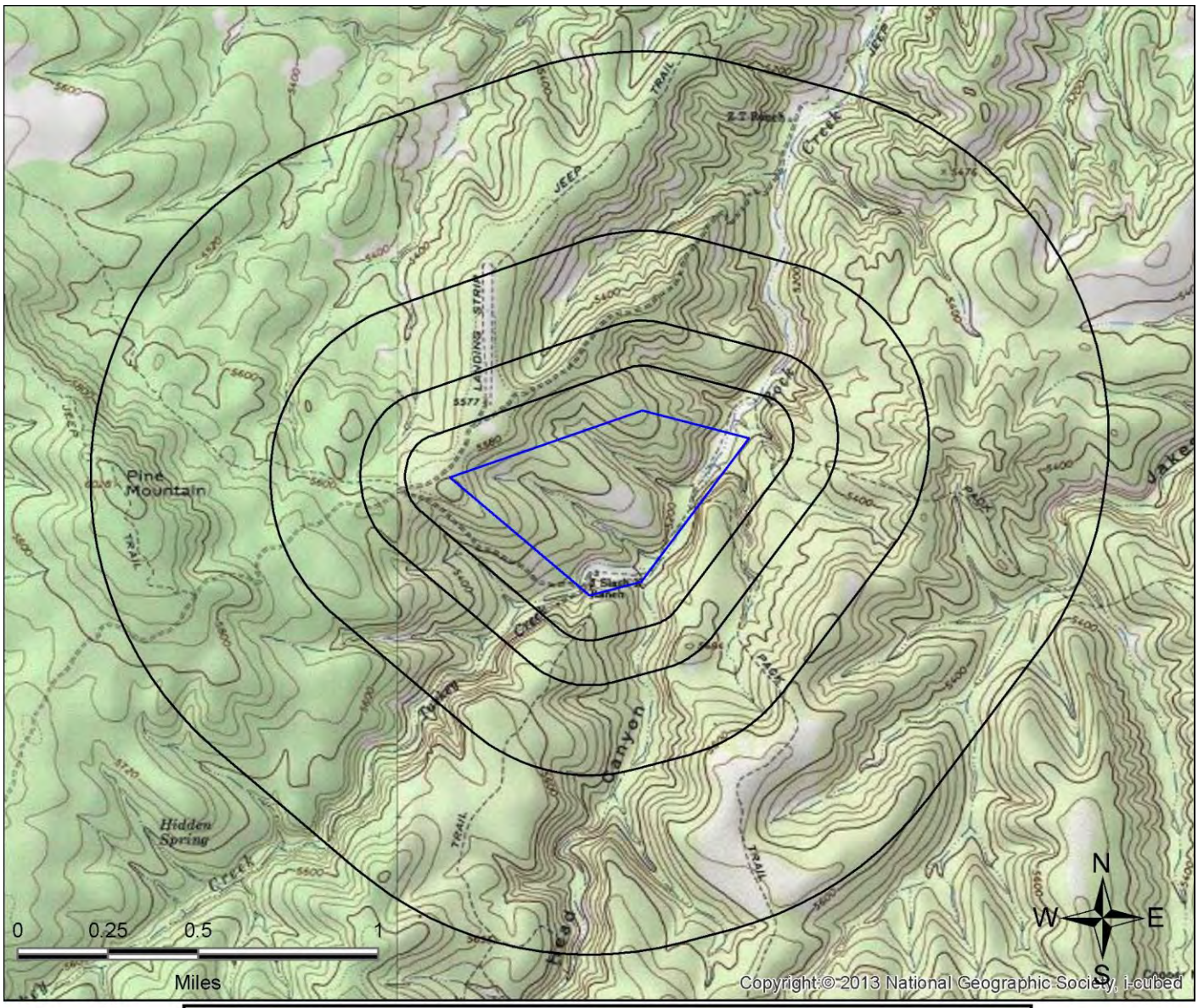
Legend

- Federal NPL
- Federal Delisted NPL
- Federal CERCLIS
- Federal CERCLIS NFRAP
- Federal LUST
- Federal RCRA CORRACTS
- Federal RCRA non-CORRACTS TSD
- Federal RCRA Generators
- Federal UST
- Federal Inst/Eng Controls
- Federal Brownfield
- Federal ERNS
- Federal Emergency Release Reports
- Emergency Release Reports
- State/Tribal NPL
- State/Tribal CERCLIS Equivalent
- State/Tribal LUST
- State/Tribal Voluntary Cleanup Sites
- State/Tribal UST
- State/Tribal Brownfield
- State/Tribal Inst/Eng Controls
- State/Tribal Landfill/Solid Waste
- State/Tribal RCRA Equivalent
- State/Tribal ASTM Other
- ERS Supplemental Govt Sources
- ERS Exclusive Historic Sources

All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

1-MILE TOPOGRAPHIC MAP W/OCCURRENCES (MAP3)



Legend

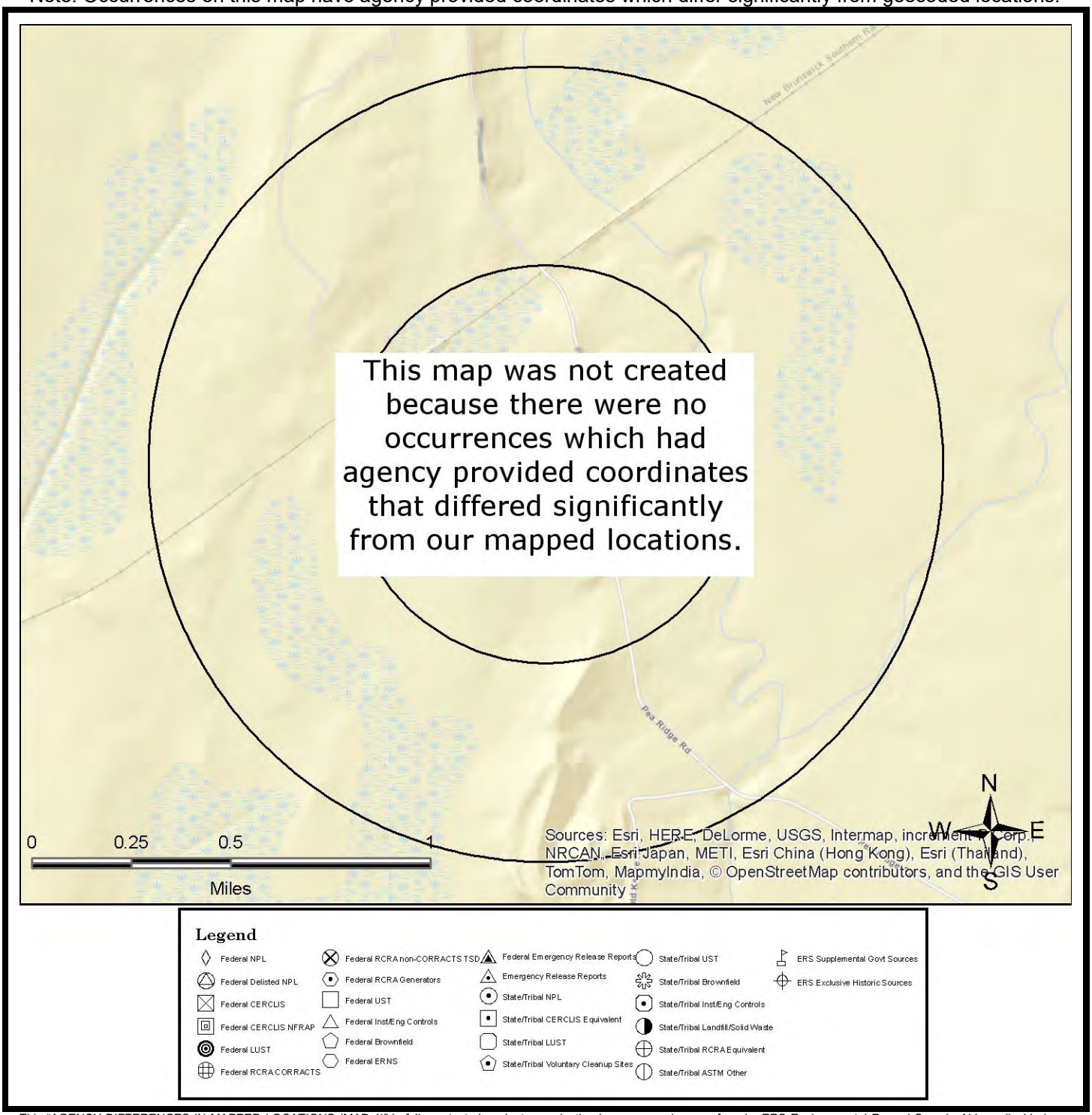
- Federal NPL
- Federal Delisted NPL
- Federal CERCLIS
- Federal CERCLIS NFRAP
- Federal LUST
- Federal RCRA CORRACTS
- Federal RCRA non-CORRACTS TSD
- Federal RCRA Generators
- Federal UST
- Federal Inst/Eng Controls
- Federal Brownfield
- Federal ERNS
- Federal Emergency Release Reports
- Emergency Release Reports
- State/Tribal NPL
- State/Tribal CERCLIS Equivalent
- State/Tribal LUST
- State/Tribal Voluntary Cleanup Sites
- State/Tribal UST
- State/Tribal Brownfield
- State/Tribal Inst/Eng Controls
- State/Tribal Landfill/Solid Waste
- State/Tribal RCRA Equivalent
- State/Tribal ASTM Other
- ERS Supplemental Govt Sources
- ERS Exclusive Historic Sources

All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

AGENCY DIFFERENCES IN MAPPED LOCATIONS (MAP4)

Note: Occurrences on this map have agency provided coordinates which differ significantly from geocoded locations.



This "AGENCY DIFFERENCES IN MAPPED LOCATIONS (MAP 4)" is fully protected against reproduction in any way, shape or form by ERS Environmental Record Search. ALL applicable laws, copyrights, pending copyrights, trademarks, and any and all applicable Federal and State laws apply at all times. These protections include the concept, procedures, processes, layout, vision, color scheme, mapping layout, legends, data, any and all verbiage, and the entire concept.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

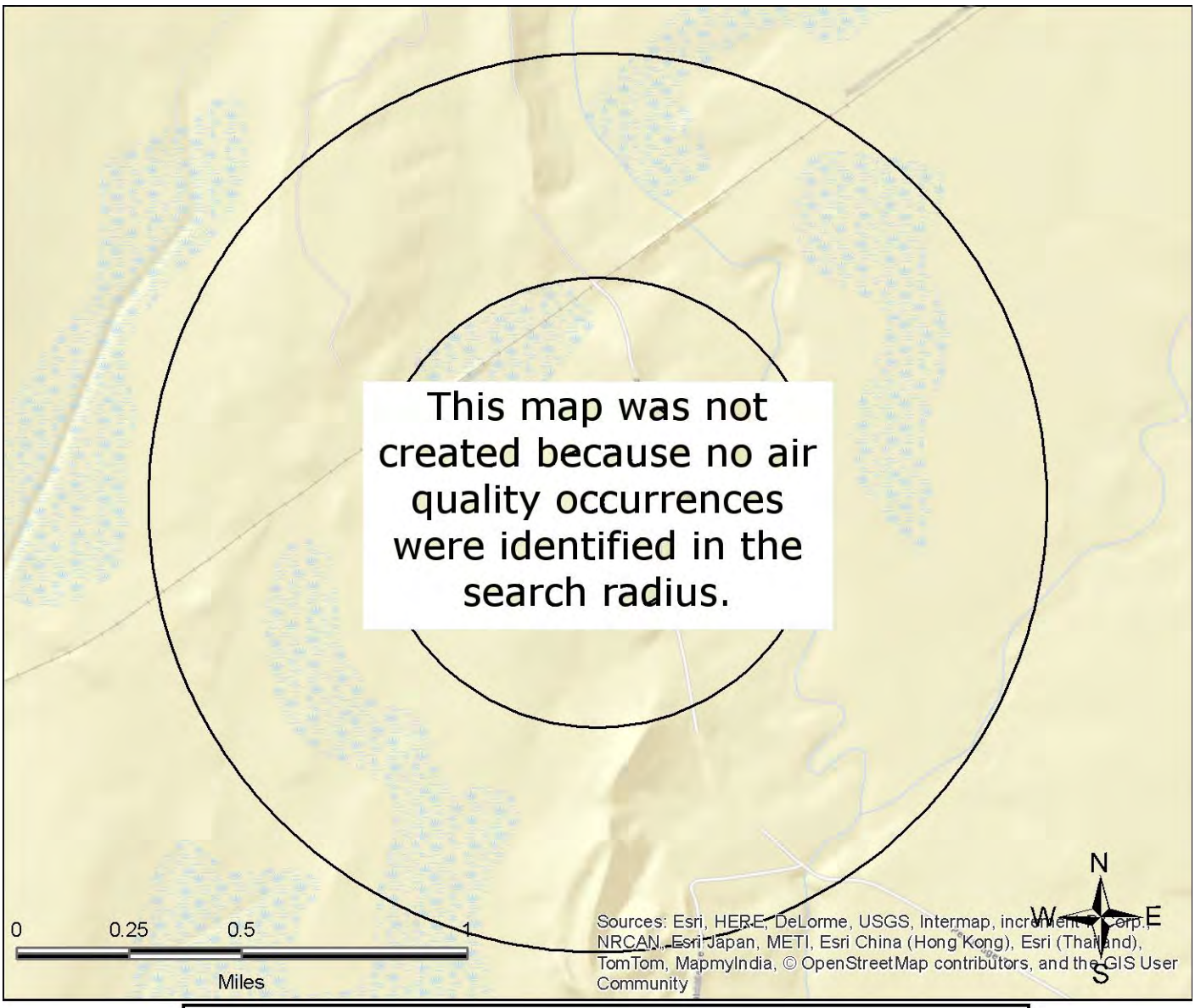
SUMMARY OF AGENCY DIFFERENCES

MAP ID	ID / SITE NAME	ADDRESS / DATABASE	AGENCY COORDINATES	DISTANCE (MILES)	DIRECTION
N/A	No occurrences were identified where the agency provided coordinates that differed significantly from our mapped locations.				

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

MAPPED AIR PERMITS WITH POTENTIAL DISPERSION (MAP5)

Note: Occurrences on this map are reported in Air Quality databases. Potential air plumes are drawn in the direction of the prevailing wind.



All plotted occurrences represent approximate locations based on geographic information provided by the respective agency/source. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. Potential air dispersion plumes are depicted to graphically show the direction contaminates may travel based on prevailing wind data and provide a visual screening tool only. Actual direction will vary especially by season. Depending on the actual contaminate, amount released, and other variables, the distance from the source the contaminate may travel can and will vary. Interpretation and review of all the actual relevant data by an environmental professional is recommended before making any decisions, conclusions or otherwise based on the map depictions, air data, and potential air dispersion plumes.

This "MAPPED AIR PERMITS WITH POTENTIAL DISPERSION (MAP 5)" is fully protected against reproduction in any way, shape or form by ERS Environmental Record Search. ALL applicable laws, copyrights, pending copyrights, trademarks, and any and all applicable Federal and State laws apply at all times. These protections include the concept, procedures, processes, layout, vision, color scheme, mapping layout, legends, data, any and all verbiage, and the entire concept.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

LISTED OCCURRENCE DETAILS

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
N/A				
SITE NAME			**MAPS**	**ID**
ADDRESS			**CITY**	**ZIP**
DETAILS				
No listed sites were found.				

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

RECORDS SOURCES SEARCHED

Air-AZ
Arizona Air Permits
Category: ERS Supplemental Govt Sources
Description: This database contains permitted facilities in Arizona. These sites are active and have received ADEQ air permits.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027712331
Date last updated: 9/18/2015
Date last checked: 9/18/2015
Distance searched: 0.25 miles
Sites:
None Found

ALF-AZ
Active Landfills
Category: State/Tribal Landfill/Solid Waste
Description: This database contains a listing of Active Solid Waste Landfills.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027712221
Date last updated: 5/19/2016
Date last checked: 5/11/2016
Distance searched: 0.5 miles
Sites:
None Found

Allfac-AZ
Arizona Permits
Category: ERS Supplemental Govt Sources
Description: This database contains facilities that have been issued a Arizona DEQ permit at some point in time. Facilities listed can be in any of the following programs: Air, Chemical Release, Drinking Water, Hazardous Waste, Solid Waste, Surface Water, UST, Waste Water, and Remediation and Redevelopment.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027712300
Date last updated: 11/18/2015
Date last checked: 11/24/2015
Distance searched: 0.25 miles
Sites:
None Found

ASPL-AZ

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Arizona Superfund Program List
Category: State/Tribal CERCLIS Equivalent
Description: This database contains WQARF Registry Sites, National Priorities List (NPL) sites and Department of Defense (DOD) sites requiring SPS oversight as reported by the Arizona Department of Environmental Quality.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027714340
Date last updated: 4/19/2016
Date last checked: 4/19/2016
Distance searched: 0.5 miles
Sites:
None Found

AST2-AZ
Aboveground Storage Tanks
Category: State/Tribal UST
Description: This database contains aboveground storage tanks as reported by the Department of Fire, Building and Line Safety.
Agency: Department of Fire, Building and Line Safety
Phone Number: 6023641003
Date last updated: 5/4/2016
Date last checked: 4/28/2016
Distance searched: 0.25 miles
Sites:
None Found

AST-AZ
Aboveground Storage Tanks
Category: State/Tribal UST
Description: This database contains a listing of Aboveground Storage Tanks reported by Arizona Department of Environmental Quality.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027712300
Date last updated: 5/20/2016
Date last checked: 5/4/2016
Distance searched: 0.25 miles
Sites:
None Found

BF-Closed-AZ
Brownfield Sites, Closed Cases
Category: State/Tribal Brownfield
Description: This database contains a listing of Brownfield Closed Sites where the contamination on the property has been cleaned up.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Agency: Arizona Department of Environmental Quality
Phone Number: 6027714153
Date last updated: 7/13/2015
Date last checked: 6/29/2015
Distance searched: 0.5 miles
Sites:
None Found

BF-Open-AZ
Brownfield Sites, Open Cases
Category: State/Tribal Brownfield
Description: Brownfield Open Sites where the contamination on the property has not been cleaned up.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027714153
Date last updated: 7/13/2015
Date last checked: 6/29/2015
Distance searched: 0.5 miles
Sites:
None Found

BF-US
A Listing of Brownfields Sites
Category: Federal Brownfield
Description: This database contains a listing of Brownfields sites listed under the "Cleanups in My Community" program maintained by EPA.
Agency: U.S. Environmental Protective Agency
Phone Number: 2025662777
Date last updated: 6/6/2016
Date last checked: 5/25/2016
Distance searched: 0.5 miles
Sites:
None Found

BioFuel-US
Bio Diesel Fuel
Category: ERS Supplemental Govt Sources
Description: This database contains a listing of EPA Fuels Programs facilities.
Agency: U.S Environmental Protection Agency
Phone Number: 2023439303
Date last updated: 7/27/2015
Date last checked: 7/8/2015
Distance searched: 0.25 miles
Sites:
None Found

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Brownfields-AZ
Brownfield Site Boundaries
Category: State/Tribal Brownfield
Description: This database contains Brownfield site boundaries.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027714153
Date last updated: 5/3/2016
Date last checked: 4/21/2016
Distance searched: 1 mile
Sites:
None Found

CDL-AZ
Clandestine Drug Labs
Category: ERS Supplemental Govt Sources
Description: This database contains a listing of seized illegal drug laboratory sites where drug manufacturing chemicals were seized. These sites are reported to meet the S.R.S. 12-990(1) definition of a "clandestine drug laboratory."
Agency: Arizona State Board of Technical Registration
Phone Number: 6023644948
Date last updated: 6/17/2015
Date last checked: 6/10/2015
Distance searched: 0.063 miles
Sites:
None Found

CDL-US
National Clandestine Drug Lab Register
Category: ERS Supplemental Govt Sources
Description: National Clandestine Drug Lab Register. This database contains a listing of 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.
Agency: Unites States Drug Enforcement Administration
Phone Number: 2023071000
Date last updated: 7/28/2015
Date last checked: 7/8/2015
Distance searched: 0.063 miles
Sites:
None Found

CERCLIS-Archived-US
CERCLIS sites that have been archived

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Category: Federal CERCLIS NFRAP
Description: The Superfund Enterprise Management System (SEMS). The reports produced by SEMS contain information on the assessment and remediation of current and archived hazardous waste sites. The archived designation means that to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates that this decision was not appropriate or other considerations require a recommendation for listing at a later time. Information provided to the previous CERCLIS Legacy System has been added to the details of the sites.
Agency: United States Environmental Protection Agency
Phone Number: 8004249346
Date last updated: 6/7/2016
Date last checked: 5/23/2016
Distance searched: 0.5 miles
Sites:
None Found

CERCLIS-US
Comprehensive Environmental Response, Compensation, and Liability Information System
Category: Federal CERCLIS
Description: The Superfund Enterprise Management System (SEMS). The reports produced by SEMS contain information on the assessment and remediation of current hazardous waste sites. Information provided to the previous CERCLIS Legal System has been added to the details of the sites.
Agency: United States Environmental Protection Agency
Phone Number: 8004249346
Date last updated: 6/6/2016
Date last checked: 5/26/2016
Distance searched: 0.5 miles
Sites:
None Found

CLF-AZ
Closed Landfills
Category: State/Tribal Landfill/Solid Waste
Description: This database contains a listing of Closed Solid Waste Landfills.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027712221
Date last updated: 5/19/2016
Date last checked: 5/9/2016
Distance searched: 0.5 miles
Sites:
None Found

Close-WQARF-AZ
Closed Water Quality Assurance Revolving Fund (WQARF) Sites

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Category: State/Tribal NPL
Description: The database includes the closed Water Quality Assurance Revolving Fund (WQARF).
Agency: Arizona Department of Environmental Quality
Phone Number: 6027714340
Date last updated: 4/21/2016
Date last checked: 4/21/2016
Distance searched: 1 mile
Sites:
None Found

Coal-Ash-AZ
Coal Ash Disposal Sites
Category: ERS Supplemental Govt Sources
Description: This database contains coal ash disposal sites.
Agency: EarthJustice
Phone Number: 8005846460
Date last updated: 11/18/2015
Date last checked: 11/24/2015
Distance searched: 0.5 miles
Sites:
None Found

Coal-Ash-Dams-US
Coal Ash Contaminated Sites and Hazard Dams
Category: ERS Supplemental Govt Sources
Description: This database contains coal ash contaminated sites and hazard dams. Coal combustion waste sites have contaminated groundwater, wetlands, and rivers. The U.S. EPA rates coal ash ponds according to a National Inventory of Dams criteria that categorizes the ponds by the damage that would occur in the event of a dam failure. This database contains High Hazard and Significant Hazard dams.
Agency: EarthJustice
Phone Number: 8005846460
Date last updated: 10/20/2015
Date last checked: 10/12/2015
Distance searched: 0.5 miles
Sites:
None Found

Controls-AZ
Environmental Use Restriction Sites
Category: State/Tribal Inst/Eng Controls
Description: Arizona DEQ maintains a DEUR Tracking Database that lists all sites with Environmental Use Restrictions and Voluntary Environmental Mitigation Use Restrictions. This database contains listings of both types.
Agency: Arizona Department of Environmental Quality

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Phone Number: 6027714397
Date last updated: 6/1/2016
Date last checked: 6/1/2016
Distance searched: 0.5 miles
Sites:
None Found

Controls-RCRA-US
Federal RCRA with Controls
Category: Federal Inst/Eng Controls
Description: This database contains RCRA facilities that have Inst/Eng Controls placed on them as identified by the EPA.
Agency: Environmental Protection Agency
Phone Number: 8004249346
Date last updated: 6/10/2016
Date last checked: 6/7/2016
Distance searched: 0.5 miles
Sites:
None Found

Controls-US
Controls List
Category: Federal Inst/Eng Controls
Description: This database contains a listing of Voluntary Action Program Sites with Engineering Controls and/or Institutional Controls placed on them and were identified by the Environmental Protection Agency.
Agency: Environmental Protection Agency
Phone Number: 8004249346
Date last updated: 5/9/2016
Date last checked: 5/9/2016
Distance searched: 0.5 miles
Sites:
None Found

Dams-AZ
Arizona Dams
Category: ERS Supplemental Govt Sources
Description: This database contains dam locations in Arizona. The data is provided by the University of Arizona Institutional Repository and has not been updated since 1996.
Agency: United States Environmental Protection Agency
Phone Number: 2022607301
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.25 miles
Sites:

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

None Found

Debris-US
Debris Sites
Category: Federal Solid Waste
Description: This database contains the Torres Martinez Reservation Illegal dump sites reported by the United States Environmental Protection Agency.
Agency: United States Environmental Protection Agency
Phone Number: 8004249346
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.5 miles
Sites:
None Found

Delisted-NPL-US
Delisted NPL Sites
Category: Federal Delisted NPL
Description: The Superfund Enterprise Management System (SEMS). The reports produced by SEMS contain information on the assessment and remediation of current hazardous waste sites. This database contains a listing of Delisted NPL sites. These are facilities that have been removed from the NPL list. The EPA may delete a final NPL site if it determines that no further response is required to protect human health or the environment.
Agency: Environmental Protection Agency
Phone Number: 8004249346
Date last updated: 6/6/2016
Date last checked: 5/26/2016
Distance searched: 1 mile
Sites:
None Found

DOD-AZ
Department of Defense Sites
Category: ERS Supplemental Govt Sources
Description: The database includes the Arizona Department of Defense Sites (DOD).
Agency: Arizona Department of Environmental Quality
Phone Number: 6027714340
Date last updated: 4/21/2016
Date last checked: 4/21/2016
Distance searched: 1 mile
Sites:
None Found

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

DryCleaners-AZ
Dry Cleaner Facilities
Category: ERS Supplemental Govt Sources
Description: This database contains a listing of drycleaners reported by the Arizona Department of Environmental Quality.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027712221
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.25 miles
Sites:
None Found

DryWell-AZ
DryWells
Category: ERS Supplemental Govt Sources
Description: This database contains drywell locations reported by the Arizona Department of Environmental Quality.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027714686
Date last updated: 2/25/2016
Date last checked: 2/25/2016
Distance searched: 0.25 miles
Sites:
None Found

EGRID-US
Emissions & Generation Resource Facilities
Category: ERS Supplemental Govt Sources
Description: Emissions & Generation Resource Integrated Database (eGRID) is a comprehensive source of data on the environmental characteristics of almost all electric power generated in the United States.
Agency: Environmental Protection Agency
Phone Number: 2023439340
Date last updated: 11/24/2015
Date last checked: 11/12/2015
Distance searched: 0.5 miles
Sites:
None Found

EpaNPL-AZ
Arizona National Priority List
Category: State/Tribal NPL
Description: The database includes the Arizona NPL sites as provided by the Arizona DEQ.
Agency: Arizona Department of Environmental Quality

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Phone Number: 6027714340
Date last updated: 4/21/2016
Date last checked: 4/21/2016
Distance searched: 1 mile
Sites:
None Found

EPA-Watch-List-US
EPA Watch List
Category: ERS Supplemental Govt Sources
Description: This database contains facilities listed on the Clean Air Act, Clean Water Act, and RCRA Watch List. These reports are now considered archived and will no longer be updated. Being on the Watch List may not mean that the facility has actually violated the law only that an evaluation or investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. The Watch List does not identify which alleged violations of environmental laws may pose the greatest risk to public health or the environment. It is an automated report based on data from the Air Facility System
(AFS), which is used by federal, state and local agencies to track environmental enforcement and compliance information.
Agency: Environmental Protection Agency
Phone Number: 2025661667
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.25 miles
Sites:
None Found

ERNS-US
Emergency Response Notification System
Category: Federal ERNS
Description: The primary function of the National Response Center is to serve as the sole national point of contact for reporting all oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories. This database contains a listing of discharge locations.
Agency: National Response Center
Phone Number: 8004248802
Date last updated: 4/26/2016
Date last checked: 5/25/2016
Distance searched: 0.063 miles
Sites:
None Found

FA-HW-US
Financial Assurance, Hazardous Waste

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Category: ERS Supplemental Govt Sources
Description: This database contains Financial Assurance facilities listed under the Hazardous Waste program as reported by the United States Environmental Protection Agency.
Agency: United States Environmental Protection Agency
Phone Number: 8004249346
Date last updated: 7/27/2015
Date last checked: 6/23/2015
Distance searched: 0.063 miles
Sites:
None Found

FA-UST-AZ
Financial Assurance for Underground Storage Tanks
Category: ERS Supplemental Govt Sources
Description: This database identifies facilities with Underground Storage Tanks that have financial assurance as reported by the Arizona Department of Environmental Quality.
Agency: Arizona Department of Environmental Quality
Phone Number: 7852961684
Date last updated: 10/19/2015
Date last checked: 10/7/2015
Distance searched: 0.063 miles
Sites:
None Found

FEMA-UST-US
FEMA Underground Storage Tanks
Category: Federal UST
Description: This database contains Federal Emergency Management Agency (FEMA) owned and operated underground storage tanks. The report was published in 2006.
Agency: Environmental Protection Agency
Phone Number: 7036037165
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.25 miles
Sites:
None Found

FRS-US
Facility Registry Index (FINDS)
Category: ERS Supplemental Govt Sources
Description: The Facility Registry System (FRS) is a centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest.
Agency: Environmental Protection Agency
Phone Number: 2022720167

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Date last updated: 8/3/2015
Date last checked: 7/8/2015
Distance searched: 0.063 miles
Sites:
None Found

FTTS-ENF-US
FIFRA/TSCA Tracking System (FTTS) Enforcement Actions
Category: Federal ASTM Other
Description: The FIFRA/TSCA Tracking System (FTTS) is a regional system used to track compliance activities such as inspections, case review, enforcement actions taken, samples collected, and pesticide grants and cooperative agreement information. The compliance monitoring and enforcement activities are tracked from the time an inspector conducts (or schedules) an inspection until the time the case is closed or the enforcement action is settled. Specific legal citations include, but are not limited to: Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Toxic Substances Control Act (TSCA), and Emergency Planning and Community Right-to-Know Act (EPCRA).
Agency: United States Environmental Protection Agency
Phone Number: 2025642501
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

FTTS-INSP-US
FIFRA/TSCA Tracking System (FTTS) Inspections
Category: ERS Supplemental Govt Sources
Description: The FIFRA/TSCA Tracking System (FTTS) is a regional system used to track compliance activities such as inspections, case review, enforcement actions taken, samples collected, and pesticide grants and cooperative agreement information. The compliance monitoring and enforcement activities are tracked from the time an inspector conducts (or schedules) an inspection until the time the case is closed or the enforcement action is settled. Specific legal citations include, but are not limited to: Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Toxic Substances Control Act (TSCA), and Emergency Planning and Community Right-to-Know Act (EPCRA).
Agency: United States Environmental Protection Agency
Phone Number: 2025642501
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

FUDS-US
Formerly Used Defense Sites

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Category: ERS Supplemental Govt Sources
Description: The Department of Defense (DoD) is responsible for environmental restoration of properties that were formerly owned by, leased to or otherwise possessed by the United States and under the jurisdiction of the Secretary of Defense. Such properties are known as Formerly Used Defense Sites (FUDS). The Army is the executive agent for the program and the U.S. Army Corps of Engineers manages and directs the program's administration. The scope and magnitude of the FUDS program are significant, with more than 9,900 properties identified for potential inclusion in the program. Information about the origin and extent of contamination, land transfer issues, past and present property ownership, and program policies must be evaluated before DoD considers a property eligible for Defense Environment Restoration Account (DERA) funding under the FUDS program. Environmental cleanup procedures at FUDS are similar to those at active DoD installations.
Agency: Department of Defense
Phone Number: 2025284285
Date last updated: 5/24/2016
Date last checked: 5/24/2016
Distance searched: 1 mile
Sites:
None Found

Hist-AFS2-US
Air Facility System for Clean Air Act stationary sources
Category: ERS Supplemental Govt Sources
Description: AFS contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners (automobiles and other mobile air pollution sources are tracked by a different AIRS subsystem (AMS).
Agency: Environmental Protection Agency
Phone Number: 2025645962
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.25 miles
Sites:
None Found

Hist-AFS-US
Air Facility System for Clean Air Act stationary sources
Category: ERS Supplemental Govt Sources
Description: AFS contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners (automobiles and other mobile air pollution sources are tracked by a different AIRS subsystem (AMS).
Agency: Environmental Protection Agency
Phone Number: 2025645962
Date last updated: Historical Database
Date last checked: N/A

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Distance searched: 0.25 miles
Sites:
None Found

Hist-Agriculture
Ranches/Farms, Livestock/Agriculture
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Ranches, Farms, Livestock, and/or Agriculture.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Auto Dealers
Auto and Truck Dealers
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes Auto Dealers.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Auto Repair
Automotive Repair
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Auto Repair and Tire Dealers.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.25 miles
Sites:

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

None Found

Hist-AZ
Previously Listed Arizona Sites
Category: ERS Supplemental Govt Sources
Description: ERS has compiled records that have been previously listed in other agency databases. When ERS updates an agency database, if there is a record that was in the older version but the record is not found in the newer version, it is put into this database. The site may have been completely removed, or there was a significant change in the record such as Name, ID, or Address. The information from the old listing is preserved in this database along with which database it was originally in, It is also possible that it was moved from one database to another such as a LUST Open site receiving closure and now being listed in the LUST Closed database.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Chemical Manufacturing
Manufacturing and Distribution of Chemicals, Gases, and/or Solids
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Manufacturing and Distribution of Chemicals, Gases, and/or Solids.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Chemical-Storage
Chemical/Hazardous Use Storage
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes chemical storage facilities.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Cleaners
Laundry, Cleaners, and Dry Cleaning Services
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites, such as: Laundry, Cleaners, and Dry Cleaning Services.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.25 miles
Sites:
None Found

Hist-Convenience
Convenience Store with Possible Gas
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes convenience stores with possible gas use.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Disposal-Recycle
Hazardous Disposal/Recycle and Dumps/Waste
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes hazardous disposal facilities.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Sites:
None Found

Hist-DryWells-AZ
Dry Well Registration List
Category: ERS Supplemental Govt Sources
Description: This database contains drywell locations reported in 1998 by the Arizona Department of Environmental Quality.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027714686
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.25 miles
Sites:
None Found

Hist-Dumps-US
Dumps Inventory of 1985
Category: Federal Solid Waste
Description: This database contains Dumps as reported on the Inventory of Open Dumps from 1985. This report was published by the Office of Solid Waste, EPA.
Agency: Environmental Protection Agency
Phone Number: 2025660200
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.5 miles
Sites:
None Found

Hist-FIFRA-US
Case Administration Data from National Compliance Database (Federal Insecticide, Fungicide, and Rodenticide Act)
Category: ERS Supplemental Govt Sources
Description: This database is no longer maintained by EPA since 2006. The system tracked compliance monitoring and enforcement activities from the time an inspector conducts an inspection until the inspector closes the case or settles any resulting enforcement action(s). EPA now has the ICS database to track this information.
Agency: U.S. Environmental Protection Agency
Phone Number: 2025642501
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.25 miles
Sites:
None Found

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Hist-Food-Processors
Food Processing Manufacturers
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes food processors.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Gun-Ranges
Gun Ranges/Clubs
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes gun ranges/clubs.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-LUST-AZ
LUST File Listing
Category: ERS Supplemental Govt Sources
Description: Leaking Underground Storage Tank listing reported in 1998 by the Arizona DEQ, UST Compliance Unit.
Agency: Arizona Department of Environmental Quality
Phone Number: 6022074345
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.25 miles
Sites:
None Found

Hist-Machine Shop

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Machine Shops, Welding, Machine Repair
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites, such as: Machine shops, welding shops and machine repair.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Manufacturing
Historic Sources US: Manufacturing
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes manufacturing sites.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Metal Plating
Metal Plating
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes metal plating sites.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Mining
Mining Operations

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes Mining facilities.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

HIST-MLTS-US
Material Licensing Tracking System
Category: ERS Supplemental Govt Sources
Description: This database contains facilities listed on the Material Licensing Tracking system that possess or use radioactive materials as reported by the U.S. Nuclear Regulatory Commission. In late 2012, the agency changed from MLTS to WBL system and no longer keep track of certain information that was available in the old MLTS system.
Agency: U.S. Nuclear Regulatory Commission
Phone Number: 3014157169
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.25 miles
Sites:
None Found

Hist-Mortuaries
Crematories/Mortuaries
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Mortuaries and Crematories.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Oil-Gas
Oil and Gas Well Related Facilities
Category: ERS Exclusive Historic Sources

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes Oil and Gas Well related facilities.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-OilGas-Refiners
Oil/Gas Refiners/Manufacturers/Plants
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes Oil and Gas Refiners and/or plants.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Paint-Stores
Paint Stores
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes paint stores.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Petroleum
Petroleum Refining/ Manufacturing/ Chemicals
Category: ERS Exclusive Historic Sources

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Petroleum Refining, Manufacturing, and/or processing Chemicals.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Post-Offices
Post Offices
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes post offices.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Printers
Printers and Publishers
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Printers and Publishers.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Rental
Rental Equipment & Yards
Category: ERS Exclusive Historic Sources

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes rental equipment facilities and yards.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-RV-Dealers
Trailer and Recreational Vehicle Dealers
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Trailer and Recreational Vehicle Dealers.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Salvage
Vehicle Salvage Yards or Wreckers
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Vehicle Salvage Yards or Wreckers.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Service Stations
Service Stations/Vehicle Fueling
Category: ERS Exclusive Historic Sources

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Service Stations/Vehicle Fueling Stations.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.25 miles
Sites:
None Found

Hist-SPILLS-AZ
Arizona Spills Reported
Category: Emergency Release Reports
Description: This database includes the incidents identified in the Hazardous Material Logbook reported by the Arizona Department of Environmental Quality. The data only reports incidents prior to November 22, 2001.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027714380
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Steel-Metals
Steel Mills/Manufacturers/Foundries/Smelters
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes steel metal manufacturers, foundries, and smelters.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Textile
Textile Mills/Manufacturers
Category: ERS Exclusive Historic Sources

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes textile mill manufacturers.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Transportation
Transportation Facilities
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Airports and other facilities that may handle hazardous materials and petroleum products.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Trucking
Trucking, Shipping, Delivery, and/or Storage
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Trucking, Shipping, and/or Delivery Storage.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-US
Previously Listed Federal Sites
Category: ERS Supplemental Govt Sources

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Description: ERS has compiled records that have been previously listed in other agency databases. When ERS updates an agency database, if there is a record that was in the older version but the record is not found in the newer version, it is put into this database. The site may have been completely removed, or there was a significant change in the record such as Name, ID, or Address. The information from the old listing is preserved in this database along with which database it was originally in, It is also possible that it was moved from one database to another such as a LUST Open site receiving closure and now being listed in the LUST Closed database.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-US-EC
Engineering Controls Sites List
Category: Federal Inst/Eng Controls
Description: This database contains a listing of Voluntary Action Program Sites with Engineering Controls placed on them and were identified by the Environmental Protection Agency.
Agency: Environmental Protection Agency
Phone Number: 8004249346
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.5 miles
Sites:
None Found

Hist-US-IC
Sites with Institutional Controls
Category: Federal Inst/Eng Controls
Description: This database contains a listing of Voluntary Action Program Sites with Institutional Controls placed on them and were identified by the Environmental Protection Agency.
Agency: Environmental Protection Agency
Phone Number: 8004249346
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.5 miles
Sites:
None Found

Hist-UST-AZ
UST Tank Listing
Category: ERS Supplemental Govt Sources

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Description: UST-DMS facility tank data listing reported in 1998 by the Arizona DEQ, UST Compliance Unit.
Agency: Arizona Department of Environmental Quality
Phone Number: 6022074345
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.25 miles
Sites:
None Found

Hist-Vehicle-Parts
Vehicle Parts
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes Vehicle Parts Dealers.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-Vehicle-Washing
Vehicle/Truck Washing Facilities
Category: ERS Exclusive Historic Sources
Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes vehicle washing facilities.
Agency: Environmental Record Search (ERS)
Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

HMIS-US
Hazardous Materials Information System
Category: Federal Emergency Release Reports

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Description: Data includes spills, releases, or other incidents involving hazardous materials in commerce during the course of transportation. All modes of transportation are included except pipeline and bulk marine transportation. Data represent a census of all incidents reportable to the U.S. Department of Transportation This database contains a listing of spills. (DOT). U.S. federal regulations require all spills meeting the following criteria to be reported, in writing, to DOT's Office of Hazardous Materials Safety.
Agency: US Department of Transportation Pipeline and Hazardous Materials Safety Administration
Phone Number: 2023664433
Date last updated: 6/15/2016
Date last checked: 6/1/2016
Distance searched: 0.063 miles
Sites:
None Found

ICIS-Air-US
Integrated Compliance Information System for Air
Category: ERS Supplemental Govt Sources
Description: The Integrated Compliance Information System for Air (ICIS-Air) data exchange allows all State, Local, and Tribal Air agencies providing air stationary source enforcement and compliance data to submit their data to EPA via the Exchange Network.
Agency: Environmental Protection Agency
Phone Number: 2025645962
Date last updated: 9/8/2015
Date last checked: 7/15/2015
Distance searched: 0.063 miles
Sites:
None Found

ICIS-FEC-US
Integrated Compliance Information System for Federal Enforcement Data
Category: ERS Supplemental Govt Sources
Description: The Integrated Compliance Information System (ICIS) tracks all formal administrative and judicial enforcement actions taken by the U.S. EPA and is used as the system of record to provide official enforcement data.
Agency: Environmental Protection Agency
Phone Number: 2025646962
Date last updated: 7/29/2015
Date last checked: 7/20/2015
Distance searched: 0.063 miles
Sites:
None Found

ICIS-NPDES-US
National Pollutant Discharge Elimination System (NPDES)
Category: ERS Supplemental Govt Sources

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Description: The National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. This database contains a listing of permit holders.
Agency: United States Environmental Protection Agency
Phone Number: 2022720167
Date last updated: 5/5/2016
Date last checked: 4/7/2016
Distance searched: 0.063 miles
Sites:
None Found

Lead-Smelter-2-US
Lead Smelter Sites
Category: ERS Supplemental Govt Sources
Description: This database contains 464 sites that were reported as potential lead smelters sites in research conducted by the EPA Superfund Program and other sources. The sites are listed on the 2007 published report by the EPA Superfund Program.
Agency: Environmental Protection Agency
Phone Number: 7034129810
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.25 miles
Sites:
None Found

Lead-US
Lead Smelter Sites
Category: ERS Supplemental Govt Sources
Description: This database contains lead smelter sites reported by the Environmental Protection Agency. This database is provided by the Superfund Enterprise Management System (SEMS).
Agency: Environmental Protection Agency
Phone Number: 2025645962
Date last updated: 11/24/2015
Date last checked: 11/10/2015
Distance searched: 0.25 miles
Sites:
None Found

LIENS-US
Federal LIEN Sites
Category: Federal Inst/Eng Controls
Description: This database contains sites that have had Federal Liens filed on them as reported by the EPA.
Agency: U.S. Environmental Protection Agency

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Phone Number: 8004249346
Date last updated: 5/9/2016
Date last checked: 5/9/2016
Distance searched: 0.063 miles
Sites:
None Found

LUST-Closed-AZ
Leaking Underground Storage Tanks, Closed Cases
Category: State/Tribal LUST
Description: This database contains a listing of LUST Closed cases where remediation cleanup is complete.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027712300
Date last updated: 6/6/2016
Date last checked: 5/24/2016
Distance searched: 0.5 miles
Sites:
None Found

LUST-Open-AZ
Leaking Underground Storage Tanks, Open Cases
Category: State/Tribal LUST
Description: This database contains a listing of Open LUST cases where remediation cleanup is not complete.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027712300
Date last updated: 6/6/2016
Date last checked: 2/10/2016
Distance searched: 0.5 miles
Sites:
None Found

Manifest2-RI
Hazardous Waste Manifest
Category: State/Tribal RCRA Equivalent
Description: The Rhode Island Department of Environmental Management, Hazardous Waste Manifest System lists sites from all over the country, not just Rhode Island. To be thorough, ERS has searched the data subset that includes South Dakota sites for listings on or near the subject site that are listed in the Rhode Island Department of Environmental Management, Hazardous Waste Manifest System.
Agency: Rhode Island Department of Environmental Management
Phone Number: 4012222797
Date last updated: 2/19/2016
Date last checked: 2/19/2016

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Distance searched: 0.063 miles
Sites:
None Found

Mines-AZ
Arizona Mines
Category: ERS Supplemental Govt Sources
Description: This database contains arizona mine sites reported by the Arizona State Land Department.
Agency: Arizona State Land Department.
Phone Number: 6025424631
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

MINES-US
Mines Master Index File
Category: ERS Supplemental Govt Sources
Description: The Master Index file contains mine identification numbers issued for mines active or opened since 1971.
Agency: United States Department of Labor
Phone Number: 8777786055
Date last updated: 8/13/2015
Date last checked: 7/27/2015
Distance searched: 0.063 miles
Sites:
None Found

MLTS-US
Material Licensing Tracking System
Category: ERS Supplemental Govt Sources
Description: This database contains facilities listed on the Material Licensing Tracking system that possess or use radioactive materials as reported by the U.S. Nuclear Regulatory Commission.
Agency: U.S. Nuclear Regulatory Commission
Phone Number: 3014157169
Date last updated: 8/12/2015
Date last checked: 8/10/2015
Distance searched: 0.063 miles
Sites:
None Found

MRDS-US

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Mineral Resources Data System (MRDS)
Category: ERS Supplemental Govt Sources
Description: MRDS is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references.
Agency: U.S. Geologic Survey
Phone Number: 8882758747
Date last updated: 4/28/2016
Date last checked: 2/26/2016
Distance searched: 0.25 miles
Sites:
None Found

NPDES-AZ
National Pollutant Discharge Elimination System (NPDES)
Category: ERS Supplemental Govt Sources
Description: This database contains a listing of National Pollutant Discharge Elimination System (NPDES) permit program facilities.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027714334
Date last updated: 6/16/2015
Date last checked: 6/4/2015
Distance searched: 0.063 miles
Sites:
None Found

NPL-R9-US
NPL Region 9 Site Boundaries
Category: Federal NPL
Description: This database contains the boundaries of the NPL sites within the specified EPA region.
Agency: Environmental Protection Agency
Phone Number: 4159478000
Date last updated: 6/5/2016
Date last checked: 5/31/2016
Distance searched: 1 mile
Sites:
None Found

NPL-US
National Priorities List
Category: Federal NPL

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Description: The National Priorities List is the list of national priorities among the known releases or threatened releases of hazardous substances, pollutants, or contaminants throughout the United States and its territories. The NPL is intended primarily to guide the EPA in determining which sites warrant further investigation. This database contains a listing of NPL sites.
Agency: United States Environmental Protection Agency
Phone Number: 8004249346
Date last updated: 6/6/2016
Date last checked: 5/26/2016
Distance searched: 1 mile
Sites:
None Found

OGW-AZ
Arizona Oil and Gas Wells
Category: ERS Supplemental Govt Sources
Description: This database contains a listing of Oil and Gas Wells identified by the Arizona Geological Survey.
Agency: Arizona Geological Survey
Phone Number: 5207703500
Date last updated: 6/17/2015
Date last checked: 6/4/2015
Distance searched: 0.063 miles
Sites:
None Found

Oil-Centers-AZ
Used Oil Collection Centers
Category: State/Tribal ASTM Other
Description: This database contains a listing of registered Used Oil Collection Centers in Arizona.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027714140
Date last updated: 5/12/2016
Date last checked: 5/12/2016
Distance searched: 0.5 miles
Sites:
None Found

PADS-US
PCB Registration Database System
Category: Federal ASTM Other
Description: This database contains a listing of generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.
Agency: Environmental Protection Agency
Phone Number: 2025660500

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Date last updated: 6/7/2016
Date last checked: 6/7/2016
Distance searched: 0.063 miles
Sites:
None Found

PCB-US
PCB Transformers
Category: Federal ASTM Other
Description: PCB Transformer Registration Database. This database indicates the best known current status of registered PCB transformers
Agency: U.S Environmental Protection Agency
Phone Number: 7033088404
Date last updated: 6/7/2016
Date last checked: 6/7/2016
Distance searched: 0.25 miles
Sites:
None Found

PCS-US
Permit Compliance System for Clean Water Act
Category: ERS Supplemental Govt Sources
Description: PCS is an information management system maintained by the Office of Compliance to track permit compliance and enforcement status of facilities regulated by the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act. PCS is designed to support the NPDES program at the state, regional, and national levels.
Agency: Environmental Protection Agency
Phone Number: 2025640221
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.25 miles
Sites:
None Found

Proposed-NPL-US
Proposed NPL Sites
Category: Federal NPL
Description: The EPA provides information on the assessment and remediation of current hazardous waste sites. The site in this database have been proposed for the NPL list.
Agency: United States Environmental Protection Agency
Phone Number: 8004249346
Date last updated: 5/26/2016
Date last checked: 5/26/2016
Distance searched: 1 mile

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Sites:
None Found

RADINFO-US
Radiation Information Database
Category: ERS Supplemental Govt Sources
Description: This database contains a listing of facilities that are regulated by the US EPA regulations for radiation and radioactivity.
Agency: Environmental Protection Agency
Phone Number: 2023439775
Date last updated: 5/27/2016
Date last checked: 5/27/2016
Distance searched: 0.063 miles
Sites:
None Found

RCRA-CESQG-US
Resource Conservation and Recovery Act, Conditionally Exempt Small Quantity Generators
Category: Federal RCRA Generators
Description: The primary goals of RCRA are to: Protect human health and the environment from the potential hazards of waste disposal. Conserve energy and natural resources. Reduce the amount of waste generated. Ensure that wastes are managed in an environmentally sound manner. This database contains a listing of Conditionally Exempt Small Quantity Generators.
Agency: United States Environmental Protection Agency
Phone Number: 8004249346
Date last updated: 5/20/2016
Date last checked: 5/16/2016
Distance searched: 0.25 miles
Sites:
None Found

RCRA-COR-US
Resource Conservation and Recovery Act - Corrective Actions
Category: Federal RCRA CORRACTS
Description: The primary goals of RCRA are to: Protect human health and the environment from the potential hazards of waste disposal. Conserve energy and natural resources. Reduce the amount of waste generated. Ensure that wastes are managed in an environmentally sound manner.
EPA estimates that between 50 and 70 percent of all TSDFs have some degree of environmental contamination requiring detailed investigation and perhaps cleanup. Under a program entitled Corrective Action, EPA has the statutory authority to require permitted and interim status TSDFs to clean up hazardous waste contamination. This database contains a listing of sites that have had corrective action.
Agency: United States Environmental Protection Agency
Phone Number: 8004249346
Date last updated: 5/20/2016

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Date last checked: 5/16/2016
Distance searched: 1 mile
Sites:
None Found

RCRA-LQG-US
Resource Conservation and Recovery Act, Large Quantity Generators
Category: Federal RCRA Generators
Description: The primary goals of RCRA are to: Protect human health and the environment from the potential hazards of waste disposal. Conserve energy and natural resources. Reduce the amount of waste generated. Ensure that wastes are managed in an environmentally sound manner. This database contains a listing of Large Quantity Generators.
Agency: United States Environmental Protection Agency
Phone Number: 8004249346
Date last updated: 5/20/2016
Date last checked: 5/16/2016
Distance searched: 0.25 miles
Sites:
None Found

RCRA-NON-US
Resource Conservation and Recovery Act
Category: Federal RCRA Generators
Description: The primary goals of RCRA are to: Protect human health and the environment from the potential hazards of waste disposal. Conserve energy and natural resources. Reduce the amount of waste generated. Ensure that wastes are managed in an environmentally sound manner. This database contains a listing of RCRA Non-Hazardous generators.
Agency: United States Environmental Protection Agency
Phone Number: 8004249346
Date last updated: 5/20/2016
Date last checked: 5/16/2016
Distance searched: 0.25 miles
Sites:
None Found

RCRA-SQG-US
Resource Conservation and Recovery Act, Small Quantity Generators
Category: Federal RCRA Generators
Description: The primary goals of RCRA are to: Protect human health and the environment from the potential hazards of waste disposal. Conserve energy and natural resources. Reduce the amount of waste generated. Ensure that wastes are managed in an environmentally sound manner. This database contains a listing of Small Quantity Generators.
Agency: United States Environmental Protection Agency
Phone Number: 8004249346

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Date last updated: 5/20/2016
Date last checked: 5/16/2016
Distance searched: 0.25 miles
Sites:
None Found

RCRA-TSD-US
Resource Conservation and Recovery Act - Treatment, Storage, and Disposal sites
Category: Federal RCRA non-CORRACTS TSD
Description: The primary goals of RCRA are to: Protect human health and the environment from the potential hazards of waste disposal. Conserve energy and natural resources. Reduce the amount of waste generated. Ensure that wastes are managed in an environmentally sound manner.
This database contains a listing of Treatment, Storage and Disposal Facilities - Facilities that receive hazardous waste from generators or other facilities for treatment, storage or disposal of waste are known as TSDFs.
Agency: United States Environmental Protection Agency
Phone Number: 8004249346
Date last updated: 5/20/2016
Date last checked: 5/16/2016
Distance searched: 0.5 miles
Sites:
None Found

RemOther-Closed-AZ
Remediation Other Sites
Category: State/Tribal ASTM Other
Description: Sites reported by the Arizona Department of Environmental Quality where the owner has elected to remediate the property without the use of an institutional or engineering control.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027714397
Date last updated: 6/1/2016
Date last checked: 6/1/2016
Distance searched: 0.5 miles
Sites:
None Found

RemOther-Open-AZ
Remediation Other Sites
Category: State/Tribal ASTM Other
Description: Sites reported by the Arizona Department of Environmental Quality where the owner has elected to remediate the property without the use of an institutional or engineering control.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027714397
Date last updated: 6/1/2016

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Date last checked: 6/1/2016
Distance searched: 0.5 miles
Sites:
None Found

RFG-Lab-US
Reformulated Gasoline (RFG)
Category: ERS Supplemental Govt Sources
Description: This database includes the list of registered Reformulated Gasoline Laboratories.
Agency: Environmental Protection Agency, United States
Phone Number: 2023439303
Date last updated: 11/24/2015
Date last checked: 11/18/2015
Distance searched: 0.25 miles
Sites:
None Found

RMP-US
Risk Management Plans
Category: ERS Supplemental Govt Sources
Description: This database contains facilities that have developed risk management plans as reported by the Environmental Protection Agency. The System for Risk Management Plans (SRMP) is a suite of electronic systems containing information relating to risk management plans submitted by facilities in accordance with the Clean Air Act, Section 112(r). Affected facilities are to develop risk management programs which will prevent and minimize consequences of accidental releases of certain hazardous chemicals that could harm public health and the environment.
Agency: Environmental Protection Agency
Phone Number: 2025642491
Date last updated: 4/22/2016
Date last checked: 2/23/2016
Distance searched: 0.063 miles
Sites:
None Found

ROD-US
Records of Decision
Category: ERS Supplemental Govt Sources
Description: The Record of Decision (ROD) is a public document that explains which cleanup alternatives will be used to clean up a Superfund site. The ROD for sites listed on the NPL (NPL Site Listing Process) is created from information generated during the Remedial Investigation/Feasibility Study (RI/FS).A ROD contains site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, scope and role of response action and the remedy selected for cleanup. This database contains a listing of sites with RODs.
Agency: Environmental Protection Agency

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Phone Number: 8004249346
Date last updated: 11/24/2015
Date last checked: 11/18/2015
Distance searched: 0.5 miles
Sites:
None Found

SAA-Agreements-US
Sites with Superfund Alternative Approach Agreements
Category: Federal ASTM Other
Description: This database contains sites that have a Superfund Alternative agreement. The Superfund alternative (SA) approach uses the same investigation and cleanup process and standards that are used for sites listed on the NPL. The SA approach is an alternative to listing a site on the NPL; it is not an alternative to Superfund or the Superfund process.
Agency: Environmental Protection Agency
Phone Number: 2025645110
Date last updated: 6/6/2016
Date last checked: 6/1/2016
Distance searched: 1 mile
Sites:
None Found

SDWIS-US
Safe Drinking Water Information System
Category: ERS Supplemental Govt Sources
Description: This database contains the Safe Drinking Water Information including Public Water, Source and Treatment, Enforcements and Violations reported by the United States Environmental Protection Agency.
Agency: United States Environmental Protection Agency
Phone Number: 8004249346
Date last updated: 6/20/2016
Date last checked: 4/6/2016
Distance searched: 0.25 miles
Sites:
None Found

SS-AZ
Superfund Sites
Category: State/Tribal CERCLIS Equivalent
Description: This database contains superfund sites in Arizona. The data is provided by the University of Arizona Institutional Repository and last updated in 1997.
Agency: United States Environmental Protection Agency
Phone Number: 2022607301
Date last updated: 5/16/2016

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Date last checked: 5/16/2016
Distance searched: 0.5 miles
Sites:
None Found

SSTS-US
Section 7 Tracking System
Category: ERS Supplemental Govt Sources
Description: This database contains a listing of EPA-registered domestic pesticide-producing and device producing establishments and the pesticides produced based on data in the Section Seven Tracking System.
Agency: Environmental Protection Agency
Phone Number: 2025644203
Date last updated: 9/3/2015
Date last checked: 6/9/2016
Distance searched: 0.063 miles
Sites:
None Found

SWT-AZ
Special Waste Transporter List
Category: ERS Supplemental Govt Sources
Description: This database contains special waste transporter sites as reported by the Arizona Department of Environmental Quality. Special waste is classified as waste that contains petroleum contaminated soils and waste from shredding motor vehicles.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027712221
Date last updated: 6/17/2015
Date last checked: 6/15/2015
Distance searched: 0.25 miles
Sites:
None Found

Transfer-AZ
Transfer Stations
Category: State/Tribal Landfill/Solid Waste
Description: This database contains active transfer stations as reported by the Arizona Department of Environmental Quality.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027712221
Date last updated: 5/18/2016
Date last checked: 5/11/2016
Distance searched: 0.5 miles
Sites:

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

None Found

Tribal-Air-US
Tribal Air Permitted Facilities
Category: ERS Supplemental Govt Sources
Description: This database contains tribal locations that have been issued air permits as reported by the US Environmental Protection Agency. At this time the database includes region 2, 5, 7, 8, 9, 10.
Agency: United States Environmental Protection Agency
Phone Number: 3123532000
Date last updated: 5/1/2015
Date last checked: 2/27/2015
Distance searched: 0.25 miles
Sites:
None Found

Tribal-BF-US
Tribal Brownfields
Category: Federal Brownfield
Description: This database contains a listing of Brownfields on Native American Land identified by the United States Environmental Protection Agency.
Agency: United States Environmental Protection Agency
Phone Number: 8004249346
Date last updated: 5/16/2014
Date last checked: 5/16/2014
Distance searched: 0.5 miles
Sites:
None Found

Tribal-LUST-Closed-Reg9
Tribal Leaking Underground Storage Tanks
Category: Federal LUST
Description: This database contains a listing of Leaking Underground Storage Tanks on Native American Land identified by the United States Environmental Protection Agency in Region 9.
Agency: United States Environmental Protection Agency
Phone Number: 8004249346
Date last updated: 3/25/2016
Date last checked: 3/8/2016
Distance searched: 0.5 miles
Sites:
None Found

Tribal-LUST-Open-Reg9
Tribal Leaking Underground Storage Tanks

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Category: Federal LUST
Description: This database contains a listing of Leaking Underground Storage Tanks on Native American Land identified by the United States Environmental Protection Agency in Region 9.
Agency: United States Environmental Protection Agency
Phone Number: 8004249346
Date last updated: 3/25/2016
Date last checked: 3/8/2016
Distance searched: 0.5 miles
Sites:
None Found

Tribal-ODI-US
Tribal Open Dump Sites
Category: Federal Solid Waste
Description: This database contains a listing of Open Dump Sites on Native American Land identified by the Indian Health Service
Agency: Indian Health Service
Phone Number: 3014431046
Date last updated: 5/25/2016
Date last checked: 5/25/2016
Distance searched: 0.5 miles
Sites:
None Found

Tribal-UST-Reg9
Tribal Underground Storage Tanks
Category: Federal UST
Description: This database contains a listing of Underground Storage Tanks on Native American Land identified by the United States Environmental Protection Agency in Region 9.
Agency: United States Environmental Protection Agency
Phone Number: 8004249346
Date last updated: 3/24/2016
Date last checked: 3/4/2016
Distance searched: 0.25 miles
Sites:
None Found

Tribal-VCP-US
Tribal VCP
Category: Federal Tribal VCP
Description: This database contains voluntary cleanup sites located in tribal land as reported by the United States Environmental Protection Agency.
Agency: United States Environmental Protection Agency
Phone Number: 8004249346

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Date last updated: 6/1/2016
Date last checked: 6/1/2016
Distance searched: 0.5 miles
Sites:
None Found

TRIS2000-US
Toxics Release Inventory System
Category: ERS Supplemental Govt Sources
Description: TRIS is a EPA database reported annually by certain covered industry groups, as well as federal facilities. It contains information about more than 650 toxic chemicals that are being used, manufactured, treated, transported, or released into the environment, and includes information about waste management and pollution prevention activities. This database contains a listing of facilities that reported in the years between 2000-2009.
Agency: Environmental Protection Agency
Phone Number: 8004249346
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

TRIS2010-US
Toxics Release Inventory System
Category: ERS Supplemental Govt Sources
Description: TRIS is a EPA database reported annually by certain covered industry groups, as well as federal facilities. It contains information about more than 650 toxic chemicals that are being used, manufactured, treated, transported, or released into the environment, and includes information about waste management and pollution prevention activities. This database contains a listing of facilities that reported in the years between 2010-2012.
Agency: Environmental Protection Agency
Phone Number: 8004249346
Date last updated: 8/28/2015
Date last checked: 7/28/2015
Distance searched: 0.063 miles
Sites:
None Found

TRIS80-US
Toxics Release Inventory System
Category: ERS Supplemental Govt Sources

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Description: TRIS is a EPA database reported annually by certain covered industry groups, as well as federal facilities. It contains information about more than 650 toxic chemicals that are being used, manufactured, treated, transported, or released into the environment, and includes information about waste management and pollution prevention activities. This database contains a listing of facilities that reported in the years between 1987-1989.
Agency: Environmental Protection Agency
Phone Number: 8004249346
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

TRIS90-US
Toxics Release Inventory System
Category: ERS Supplemental Govt Sources
Description: TRIS is a EPA database reported annually by certain covered industry groups, as well as federal facilities. It contains information about more than 650 toxic chemicals that are being used, manufactured, treated, transported, or released into the environment, and includes information about waste management and pollution prevention activities. This database contains a listing of facilities that reported in the years between 1990-1999.
Agency: Environmental Protection Agency
Phone Number: 8004249346
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

TSCA-US
Toxics Substance Control Sites
Category: ERS Supplemental Govt Sources
Description: TSCA addresses the production, importation, use, and disposal of specific chemicals including polychlorinated biphenyls (PCBs), asbestos, radon and lead-based paint. This database contains a listing of these facilities.
Agency: U.S. Environmental Protection Agency
Phone Number: 2025642501
Date last updated: 9/4/2015
Date last checked: 11/21/2014
Distance searched: 0.063 miles
Sites:
None Found

UIC-AZ

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Underground Injection Control Wells
Category: ERS Supplemental Govt Sources
Description: This database contains Underground Injection Control Wells reported by the Arizona Geological Survey.
Agency: Arizona Geological Survey.
Phone Number: 5207703500
Date last updated: 9/29/2015
Date last checked: 9/25/2015
Distance searched: 0.063 miles
Sites:
None Found

UMTRA-US
Uranium Mill Tailings Remedial Action Sites
Category: ERS Supplemental Govt Sources
Description: The Uranium Mill Tailings Radiation Control Act (UMTRCA) of 1978 gave the U.S. Department of Energy (DOE) the responsibility of stabilizing, disposing, and controlling uranium mill tailings and other contaminated material at twenty-four uranium mill processing sites located across ten states and at approximately 5,200 associated properties.
Agency: Department of Energy
Phone Number: 5058450011
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

USGS-Waterwells-US
Ground Water Site Inventory
Category: ERS Supplemental Govt Sources
Description: This database contains a listing of wells, springs, test holes, tunnels, drains, and excavations reported by the United States Geological Survey, Water Resources Program.
Agency: United States Geological Survey, Water Resources Program
Phone Number: 9162783000
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

UST-AZ
Underground Storage Tanks
Category: State/Tribal UST
Description: This database contains a listing of Registered Underground Storage Tanks in Arizona.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Agency: Arizona Department of Environmental Quality
Phone Number: 6027712300
Date last updated: 6/6/2016
Date last checked: 5/24/2016
Distance searched: 0.25 miles
Sites:
None Found

Vapor-Intrusions-US
Vapor Intrusion Database
Category: ERS Supplemental Govt Sources
Description: This database contains the vapor intrusion database as reported by the Environmental Protection Agency.
Agency: Environmental Protection Agency
Phone Number: 7033057411
Date last updated: 5/17/2016
Date last checked: 5/17/2016
Distance searched: 0.5 miles
Sites:
None Found

VCP-Closed-AZ
Voluntary Cleanup Program Sites, Closed Cases
Category: State/Tribal Voluntary Cleanup Sites
Description: This database contains a listing of Voluntary Cleanup Program Sites where the contamination on the property has been cleaned up.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027714153
Date last updated: 7/13/2015
Date last checked: 6/29/2015
Distance searched: 0.5 miles
Sites:
None Found

VCP-Open-AZ
Voluntary Cleanup Program Sites, Open Cases
Category: State/Tribal Voluntary Cleanup Sites
Description: This database contains a listing of Voluntary Cleanup Program Sites where the contamination on the property has been cleaned up.
Agency: Arizona Department of Environmental Quality
Phone Number: 6027714153
Date last updated: 7/13/2015
Date last checked: 6/29/2015
Distance searched: 0.5 miles

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

Sites:
None Found

Waste-tire-AZ
Waste Tire Sites
Category: ERS Supplemental Govt Sources
Description: This database contains a listing of Waste Tire Sites registered through the Arizona Department of Environmental Quality.
Agency: Arizona Department of Environmental Quality
Phone Number: 602-771-41
Date last updated: 6/15/2015
Date last checked: 6/11/2015
Distance searched: 0.5 miles
Sites:
None Found

Wells-AZ
Arizona Wells
Category: ERS Supplemental Govt Sources
Description: This database contains a listing of Arizona wells.
Agency: Arizona Department of Water Resources
Phone Number: 6027718640
Date last updated: 3/1/2016
Date last checked: 6/15/2015
Distance searched: 0.063 miles
Sites:
None Found

WQARF-AZ
Water Quality Assurance Revolving Fund (WQARF) Sites
Category: State/Tribal NPL
Description: The database includes the Water Quality Assurance Revolving Fund (WQARF).
Agency: Arizona Department of Environmental Quality
Phone Number: 6027714340
Date last updated: 4/21/2016
Date last checked: 4/21/2016
Distance searched: 1 mile
Sites:
None Found

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

UN-MAPPABLE OCCURRENCES

The following occurrences were not mapped primarily due to incomplete or inaccurate address information. All of the following occurrences were determined to share the same zip code as the area searched. General status information is given with each occurrence along with any address information entered by the agency responsible for the list.

Requested all “un-mapped” sites.

ID	Facility Name	Address	Database	Status
0400917-11	Payson Concrete & Materials, Inc	496 E Slate Creek Trail, Tonto Basin, AZ 85553	AST-AZ	Listed
44644	TONTO BASIN BRANCH-LDS CHURCH	STATE ROUTE 188-MP #162, TONTO BASIN, AZ 85553	DryWell-AZ	Listed
110005992774	ATL PUNKIN CTR LAB TRAILER	HWY 188 MP 260, PUMPKIN CENTER, AZ 85553	FRS-US	Listed
110010678873	UNITED UTILITY - GARDENS WEST	GARDENS W COMMUNITY, TONTO BASIN, AZ 85553	FRS-US	Listed
110013255075	ARROYO WATER CO INC	PUNKIN CORNERS, PUNKIN CENTER, AZ 85553	FRS-US	Listed
110011661326	TONTO BASIN SCHOOL DISTRICT #33	1 SCHOOL STREET, TONTO BASIN, AZ 85553	FRS-US	Listed
110003410283	ATL PUNKIN CTR FACILITY	SECT 11 TOWNSHIP 6 N RANGE, PUNKIN CENTER, AZ 85553	FRS-US	Listed
110008257260	PULICE CONSTRUCTION INC	RANGE TEN TWNSHP SEVEN SEC 23, PUMPKIN CENTER, AZ 85553	FRS-US	Listed
110010678917	UNITED UTILITY - NORTH BAY ESTATES	N BAY ESTATES COMMUNITY, TONTO BASIN, AZ 85553	FRS-US	Listed
110010678926	UNITED UTILITY - ROOSEVELT LAKE	ROOSEVELT LAKE ESTATES COMMUNITY, TONTO BASIN, AZ 85553	FRS-US	Listed
18813	CIRCLE A RANCH	PO BOX 507, Tonto Basin, AZ 85553	Hist-Agriculture	Listed
2136	PUNKIN CENTER MARINE	ROUTE 188 & GREENBACK RD, Tonto Basin, AZ 85553	Hist-Auto Dealers	Listed
F63AC20E-0400121-11	Tonto Basin Maint Yard	127 South Old Hwy 88, Tonto Basin, AZ 85553	Hist-AZ	No Longer Listed
AZ0404320	PUNKIN CENTER COMMERCIAL	PO BOX 418, TONTO BASIN, AZ 85553	Hist-AZ	Address Changed
AZ0404370	TONTO BASIN TRAILER PARK	PO BOX 664, TONTO BASIN, AZ 85553	Hist-AZ	Name Changed
33109	CMH Frameworks	10 E Dryer Dr # H, Tonto Basin, AZ 85553	Hist-RV-Dealers	Listed
8658	Tonto Trailer Sales	Route 188 & Greenback Rd, Tonto Basin, AZ 85553	Hist-RV-Dealers	Listed
26531	CMH Frameworks	108 E Dryer Dr, Tonto Basin, AZ 85553	Hist-RV-Dealers	Listed
20881	CMH FRAMEWORKS	10 HIGHWAY DRYER DR, Tonto Basin, AZ 85553	Hist-RV-Dealers	Listed
53837	Butcher Hook Gas Station	State Route 188, Tonto Basin, AZ 85553	Hist-Service Stations	Listed
5CB2F9E-AZ0000204339	ATL PUNKIN CTR FACILITY	SECT 11 TOWNSHIP 6 N RANGE, PUNKIN CENTER, AZ 85553	Hist-US	No Longer Listed

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

ID	Facility Name	Address	Database	Status
5CB2F9E-AZ0000973131	ATL PUNKIN CTR LAB TRAILER	HWY 188 MP 260, PUNKIN CENTER, AZ 85553	Hist-US	No Longer Listed
4DEF634F-0201131	Tonto Mining & Milling	N/A, TONTO BASIN, AZ 85553	Hist-US	No Longer Listed
5CB2F9E-AZR000004341	PULICE CONSTRUCTION INC	RANGE TEN TWNSHP SEVEN SEC 23, PUMPKIN CENTER, AZ 85553	Hist-US	No Longer Listed
4DEF634F-0202800	TONTO PIT #1	N/A, TONTO BASIN, AZ 85553	Hist-US	No Longer Listed
24054	Gary's Auto Parts	Highway 188, Tonto Basin, AZ 85553	Hist-Vehicle-Parts	Listed
1885629	UNITED UTILITY - NORTH BAY ESTATES	N BAY ESTATES COMMUNITY, TONTO BASIN, AZ 85553	ICIS-FEC-US	Listed
1885630	UNITED UTILITY - ROOSEVELT LAKE	ROOSEVELT LAKE ESTATES COMMUNITY, TONTO BASIN, AZ 85553	ICIS-FEC-US	Listed
1885625	UNITED UTILITY - GARDENS WEST	GARDENS W COMMUNITY, TONTO BASIN, AZ 85553	ICIS-FEC-US	Listed
0201131	Tonto Mining & Milling	, TONTO BASIN, AZ 85553	Mines-US	Abandoned
0202800	TONTO PIT #1	, TONTO BASIN, AZ 85553	Mines-US	Abandoned
AZ0404328	BLAKE, CHAS WATER CO.	PO BOX 355, TONTO BASIN, AZ 85553	SDWIS-US	Listed
AZ0404370	GREENBACK CROSSING RV PARK & STORAGE	PO BOX 1360, TONTO BASIN, AZ 85553	SDWIS-US	Listed
AZ0404379	LAZY JR RANCH RV PARK	PO BOX 277, TONTO BASIN, AZ 85553	SDWIS-US	Listed
AZ0404380	BUTCHERS HOOK RESTAURANT	PO BOX 950, TONTO BASIN, AZ 85553	SDWIS-US	Listed
AZ0404385	LDS CHURCH TONTO BASIN	PO BOX 1024, TONTO BASIN, AZ 85553	SDWIS-US	Listed
AZ0404381	HILLTOP CAFE	BOX 367, TONTO BASIN, AZ 85553	SDWIS-US	Listed
183	Roosevelt Transfer Station	, Roosevelt, AZ 85553	Transfer-AZ	Listed
0400120-16	Gila County Maint Yard - Young	Highway 288 MP 305, Young, AZ 85554	AST-AZ	Listed
0400120-11	Gila County Hwy Maintenance Youn	Hwy 288, Young, AZ 85554	AST-AZ	Listed
0-006442	PLEASANT VALLEY AUTO CENTER	47817 N AZ HWY 288, YOUNG, AZ 85554	FA-UST-AZ	Listed
110020591304	YOUNG PUBLIC SCHOOL	HIGHWAY 288, YOUNG, AZ 85554	FRS-US	Listed
20258	DIAMOND BUTTE RANCH	, Young, AZ 85554	Hist-Agriculture	Listed
18784	CHERRY CREEK RANCH	PO BOX 47, Young, AZ 85554	Hist-Agriculture	Listed
A624C64-5324.01	PLEASANT VALLEY AUTO CENTER	47817 N AZ HWY 288, YOUNG, AZ 85554	Hist-AZ	No Longer Listed
9165	Gila County Maintenance Yard	Highway 288 and MP 309, Young, AZ 85554	Hist-AZ	No Longer Listed
AZ0404374	ANTLERS BAR AND CAF?ë	46788 N HWY 288, YOUNG, AZ 85554	Hist-AZ	Name Changed
36782	Hillbilly'z	136 Whiskey Alley, Young, AZ 85554	Hist-RV-Dealers	Listed
63D3A494-AZ0404374	ANTLERS BAR AND CAF?â?Æ?ó?é¼??	46788 N HWY 288, YOUNG, AZ 85554	Hist-US	No Longer Listed
4DEF634F-0202029	Yankee Dollar Mine	N/A, YOUNG, AZ 85554	Hist-US	No Longer Listed
37655	Pleasant Valley Auto Parts	307 1/2 State Route 288, Young, AZ 85554	Hist-Vehicle-Parts	Listed
0202029	Yankee Dollar Mine	, YOUNG, AZ 85554	Mines-US	Abandoned
AZ0404859	TONTO NF PLEASANT VALLEY RS-OL	PO BOX 107, YOUNG, AZ 85554	SDWIS-US	Listed

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

ID	Facility Name	Address	Database	Status
AZ0404063	YOUNG PUBLIC SCHOOL	PO BOX 390, YOUNG, AZ 85554	SDWIS-US	Listed
AZ0404377	PLEASANT VALLEY MOBILE &	PO BOX 378, YOUNG, AZ 85554	SDWIS-US	Listed
AZ0404389	PLEASANT VALLEY COMMUNITY	PO BOX 346, YOUNG, AZ 85554	SDWIS-US	Listed

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

DISCLAIMER, LIMITS AND LIABILITIES

All of the data presented in this report was garnered from public information maintained by governmental agencies. ***Environmental Record Search (ERS)*** cannot ensure that the data, which has been entered and maintained by others, is complete and/or accurate. Any, and all omissions, errors, negligence, accidentally or otherwise within the data received by ***ERS*** is assumed to be caused by others and ***ERS*** cannot and does not assume, take, or acknowledge any liability whatsoever for their respective data. The extrapolation of the mapped locations is based solely on the accuracy of the data provided by others. Prior to relying completely on any mapped location within this report, its accuracy should be verified using other means such as further documentation or a field visit. ***ERS*** makes no representation, warranty or guaranty, express or implied regarding the accuracy of the data entered and maintained by others or the suitability of the data received from others in this report for a certain task or interpretation.

The data presented in this report should only be interpreted by an experienced environmental professional, as per EPA definition, that completely understands the potential inaccuracy of the data derived from others, the possible existence of contaminated occurrences that have not been listed, and the possibility that the governmental database misrepresents the actual status of an occurrence or listing. Prior to relying completely on any of the data within this report, an environmental professional should verify the accuracy of the information presented unless one of ERS's Environmental Professionals has interpreted the data and/or report.

It is important that the reader and/or end user of this information realize that the data gathered has not been verified for its accuracy or completeness in any way by ***ERS***. With billions of records, this is an impossible task for any Company. As much as possible, the data is presented unchanged and unaltered to represent the actual data produced by these agencies. This insures the integrity of the data for the end user.

ERS does however stand behind its representation of the data, any manually plotted occurrences, any risk determinations and all other items directly under its control. This report does comply (as far as the data is reasonably ascertainable as outlined in both the following standards) with section 8.2.1 of ASTM 1527-13 – Standard Environmental Record Sources and EPA's 40 CFR Part 312, All Appropriate Inquiries. ***ERS*** does ensure that the data is accurately reproduced from the original source. ***ERS*** backs the reporting of the data with $3,000,000 of General and Environmental Professional Liability (errors and omissions) Insurance!

The ***ERS*** logo, name, report design, presentation, maps, tables, etc., are the exclusive property of ***ERS*** and its parent company and affiliates. Except as provided below, information or images contained in this report may not be reproduced or distributed in whole or in part by any means without the prior written permission from ***ERS.*** United States and international copyright laws protect any and all reports produced by ***ERS.***

The person or entity that purchased this report may make up to five (5) copies of the entire report or any part of it for archival purposes or to include as part of another report. All copyright information must remain intact and not be modified in any way.

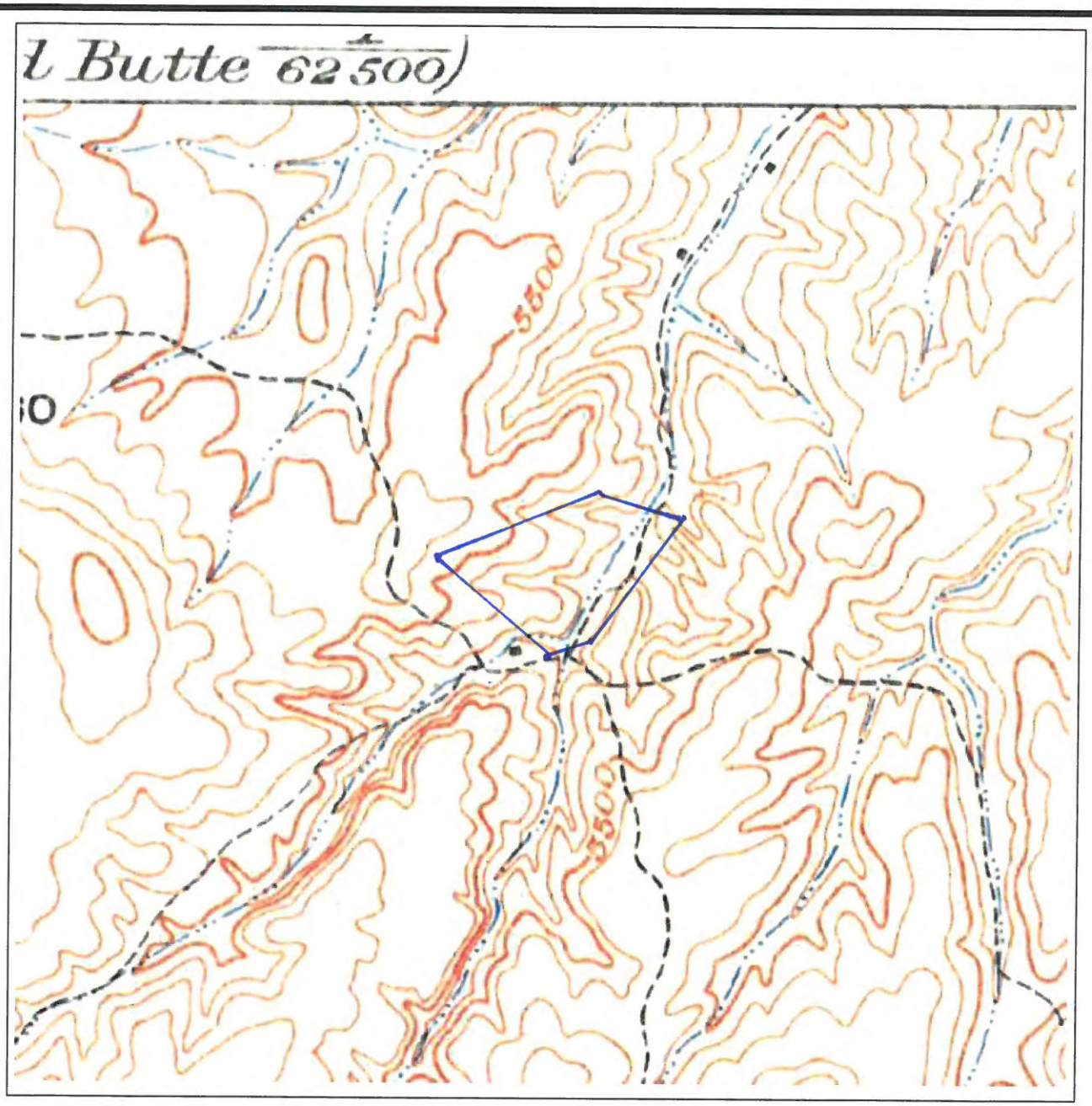
Environmental Record Search (ERS) and Phase One, Inc. (POI) and their respective products/reports (i.e. RecCheck, LenderCheck, Environmental Screen, etc.) as well as their respective business operations, are **NOT** associated in any way with nor related to, First American Commercial Real Estate, Inc. (FACRES) and/or the First American Family of Companies.

Maps throughout this report were created using ArcGIS® software by ESRI. ArcGIS® and ArcMap™ are the intellectual property of ESRI and are used herein under license. Copyright © ESRI. All rights reserved. For more information about ESRI® software, please visit www.esri.com. Topographic imagery used in maps throughout this report are Copyright © 2011 National Geographic Society. Street and aerial "hybrid" imagery used in maps throughout this report are Copyright © 2010 Microsoft Corporation and its data suppliers.

Copyright 2016 Phase One Inc. DBA Environmental Record Search (ERS) All Rights Reserved

APPENDIX F

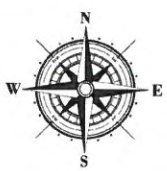
Historical Topographic Maps



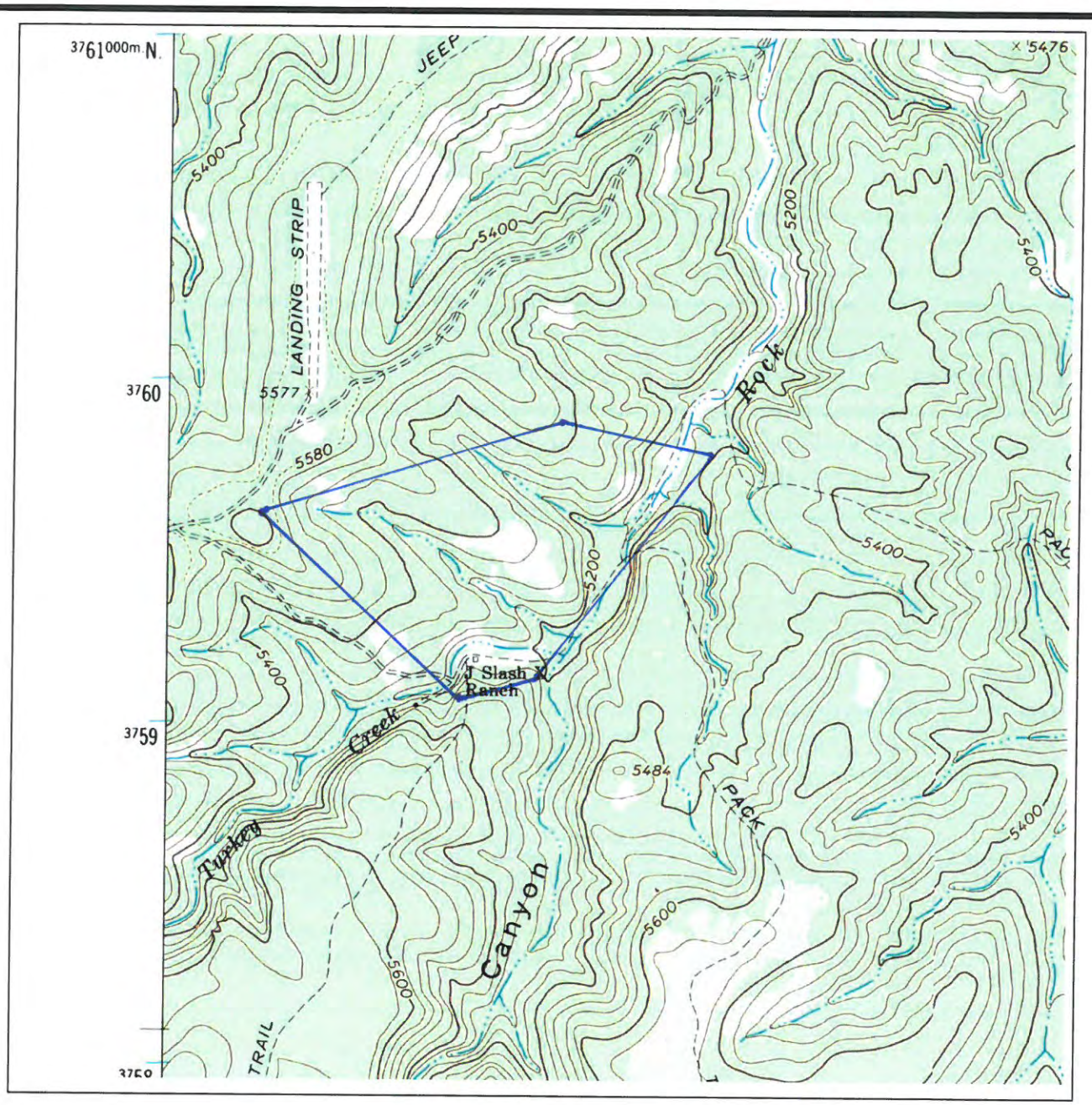
Historical Topographic Map

Site:
FR 416 and FR 2768
Turkey Creek, AZ

Date:	**1907**
Quad:	**Roosevelt**
Series:	**15**
Original Scale:	**1:125,000**
Contour Intervals:	**100'**



 ©2013

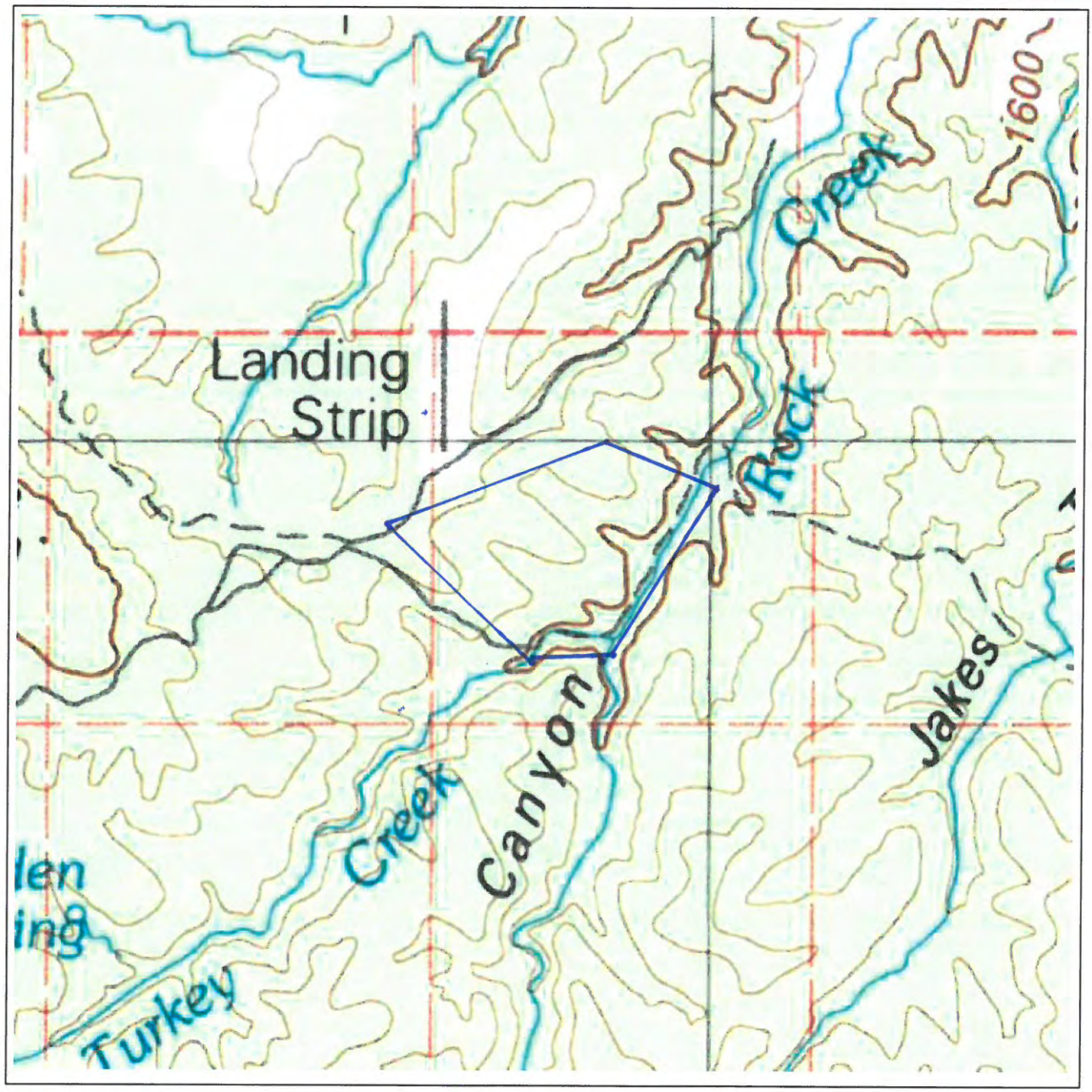


Historical Topographic Map

Site:
FR 416 and FR 2768
Turkey Creek, AZ

Date:	**1964**
Quad:	**Copper Mountain**
Series:	**7.5**
Original Scale:	**1:24,000**
Contour Intervals:	**40'**

 ©2013

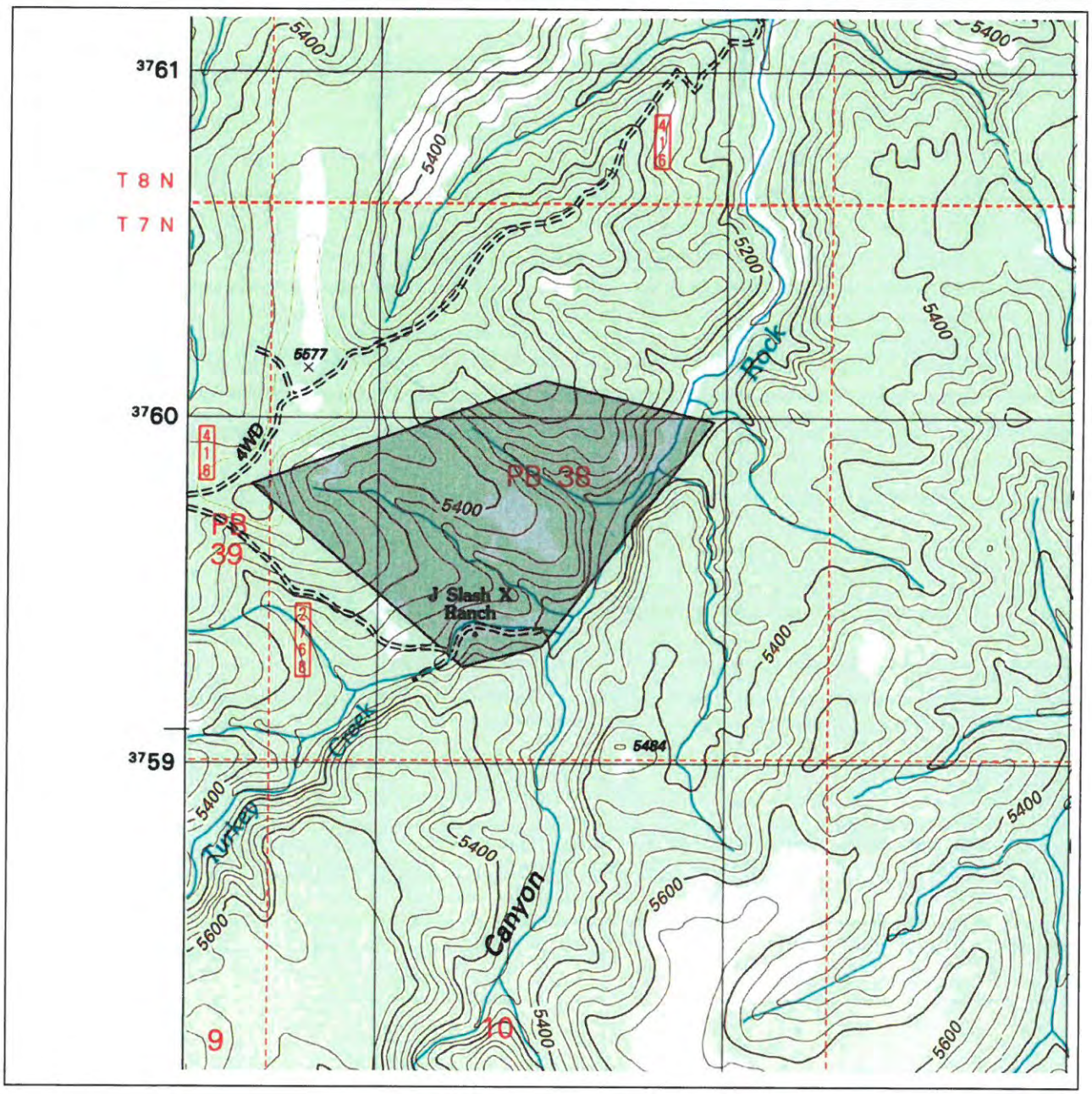


Historical Topographic Map

Site:
FR 416 and FR 2768
Turkey Creek, AZ

Date:	**1994**
Quad:	**Theodore Roosevelt Lake**
Series:	**30x60 Grid**
Original Scale:	**1:100,000**
Contour Intervals:	**40 Meters**

 ©2013

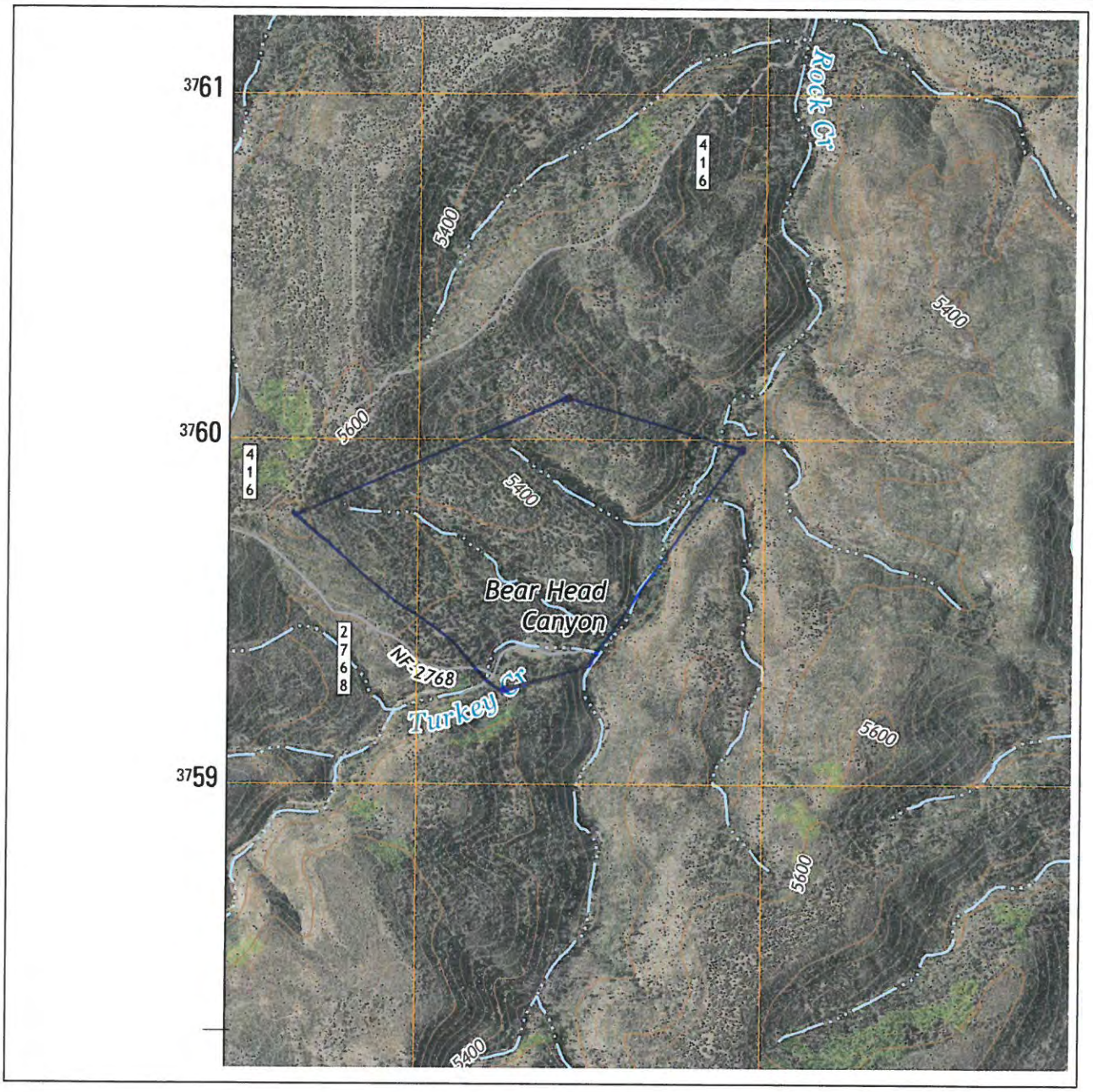


Historical Topographic Map

Site:
FR 416 and FR 2768
Turkey Creek, AZ

Date:	**2004**
Quad:	**Copper Mountain**
Series:	**7.5**
Original Scale:	**1:24,000**
Contour Intervals:	**40'**

 ©2013



Historical Topographic Map

Site:
FR 416 and FR 2768
Turkey Creek, AZ

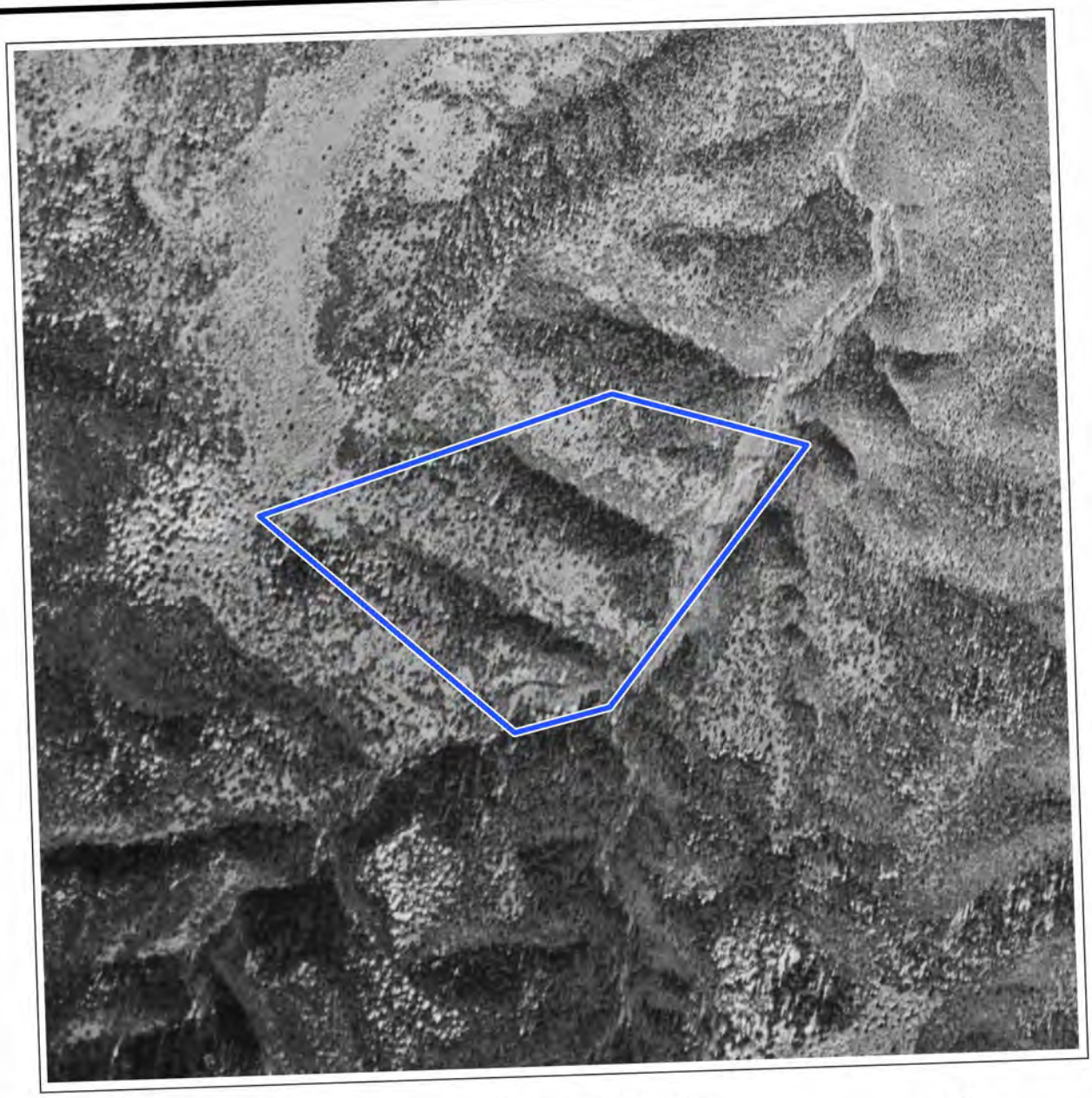
Date:	**2014**
Quad:	**Copper Mountain**
Series:	**7.5**
Original Scale:	**1:24,000**
Contour Intervals:	**40'**

 ©2013

APPENDIX G

Historical Aerial Photographs

ENVIRONMENTAL RECORD SEARCH



Historical Aerial Photo

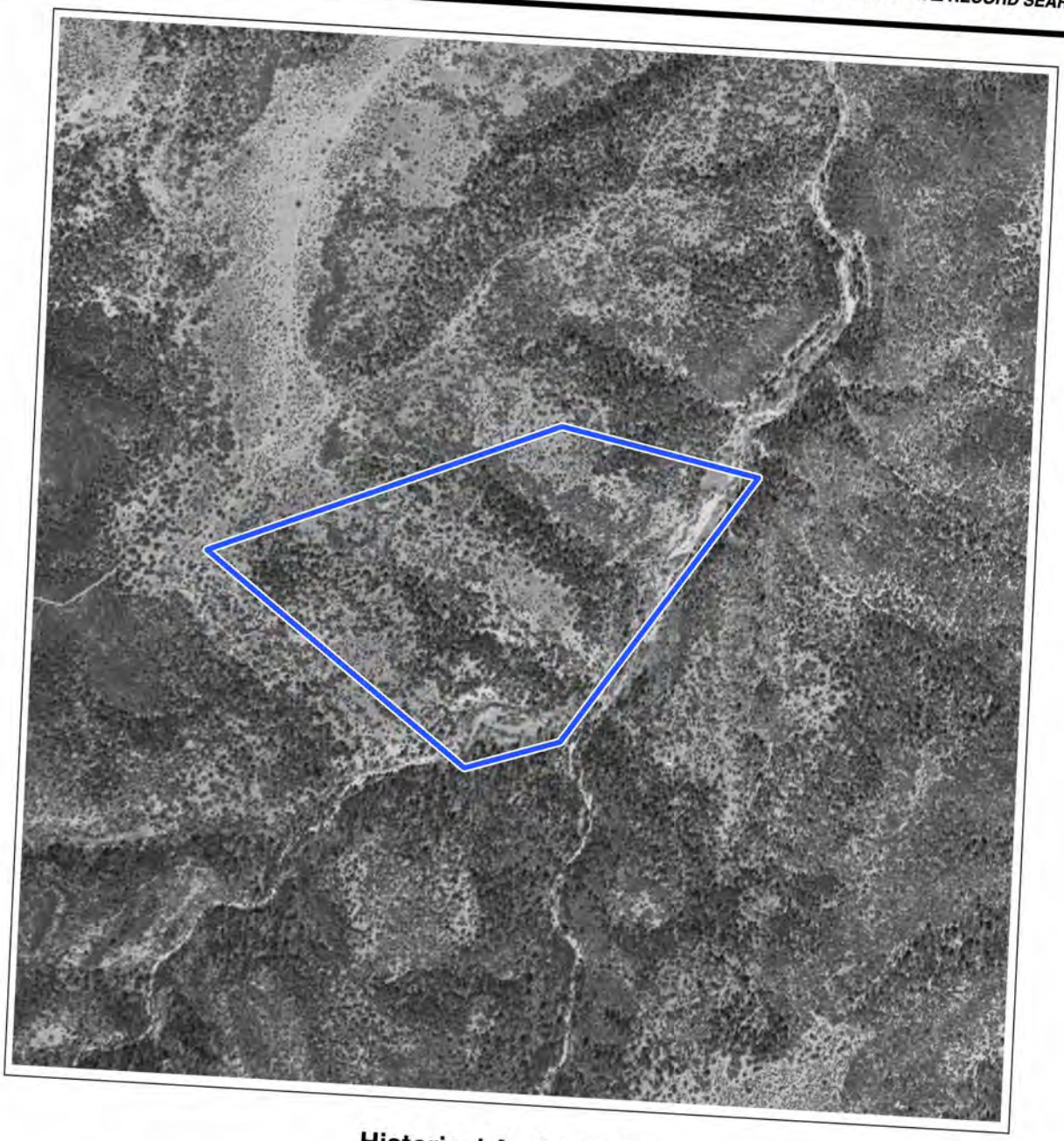
1947

Site:

FR 416 and FR 2768
Turkey Creek, AZ

©2013

ERS
ENVIRONMENTAL RECORD SEARCH



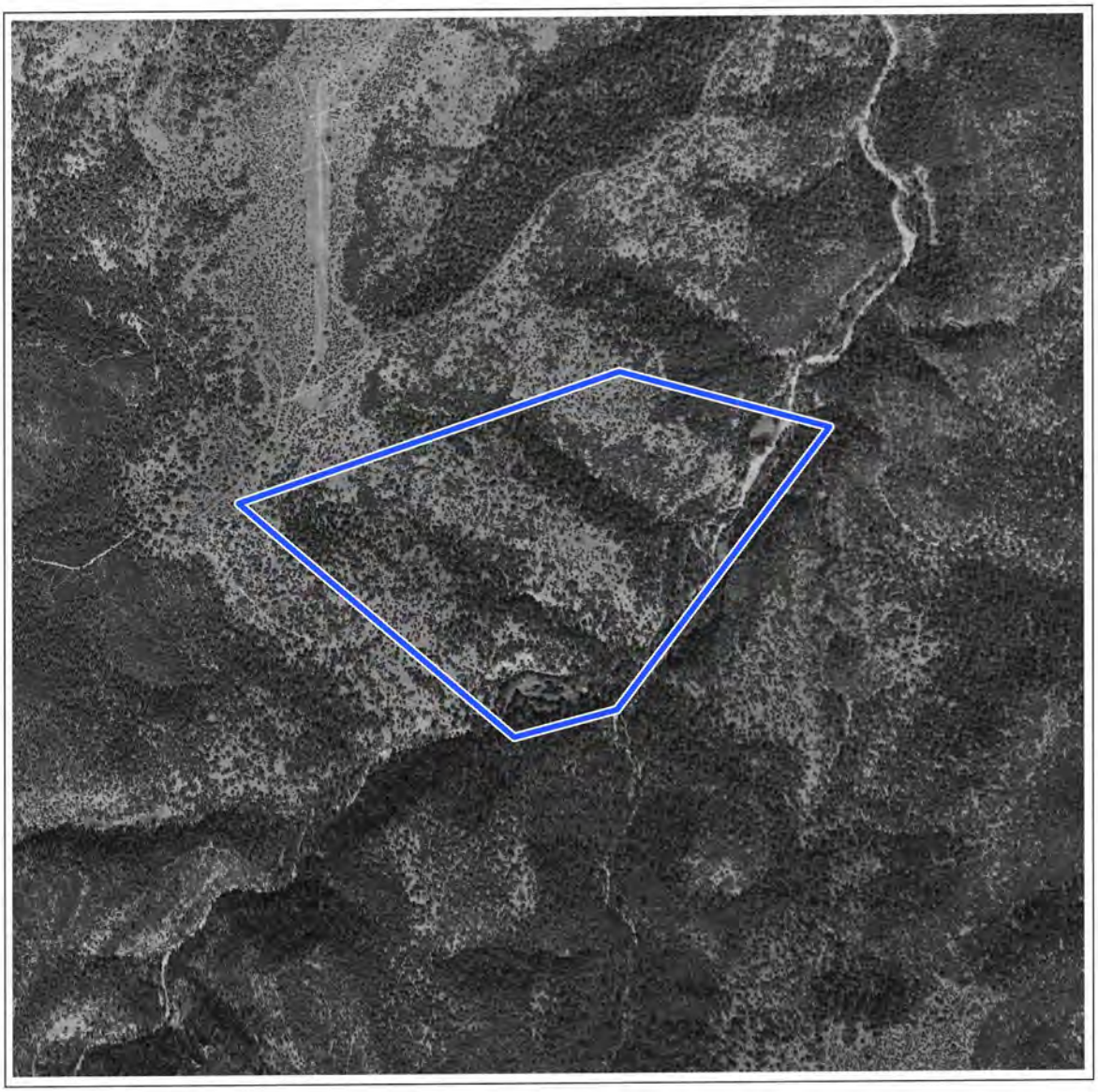
Historical Aerial Photo

Site:
FR 416 and FR 2768
Turkey Creek, AZ

1953

©2013

ERS
ENVIRONMENTAL RECORD SEARCH



Historical Aerial Photo

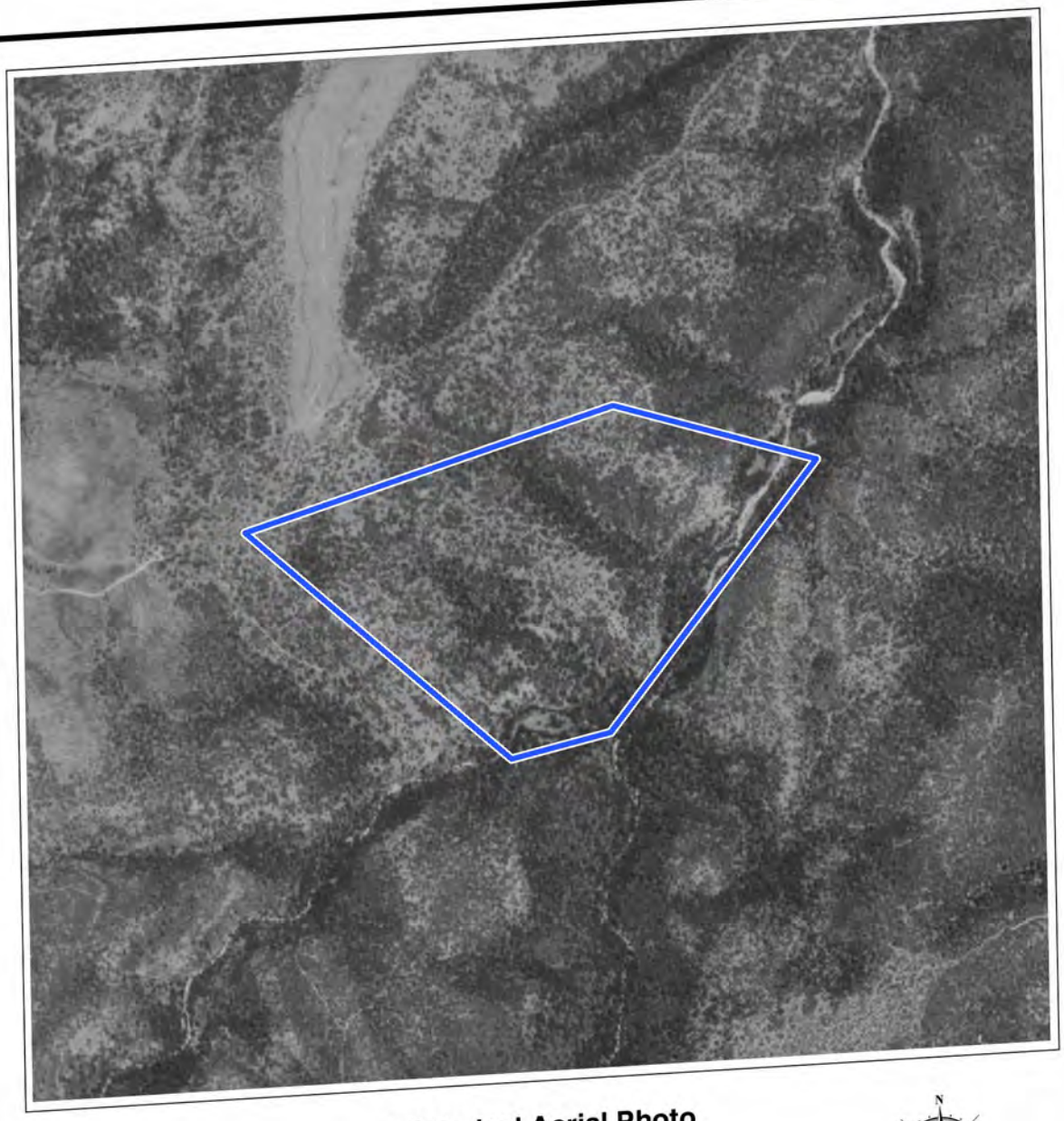
Site:
FR 416 and FR 2768
Turkey Creek, AZ

1962

 ©2013

Document Path: M:\Jobs\800's\807.118\ENV\phaseI\MXD\oldAerials.mxd

ERS
ENVIRONMENTAL RECORD SEARCH



Historical Aerial Photo

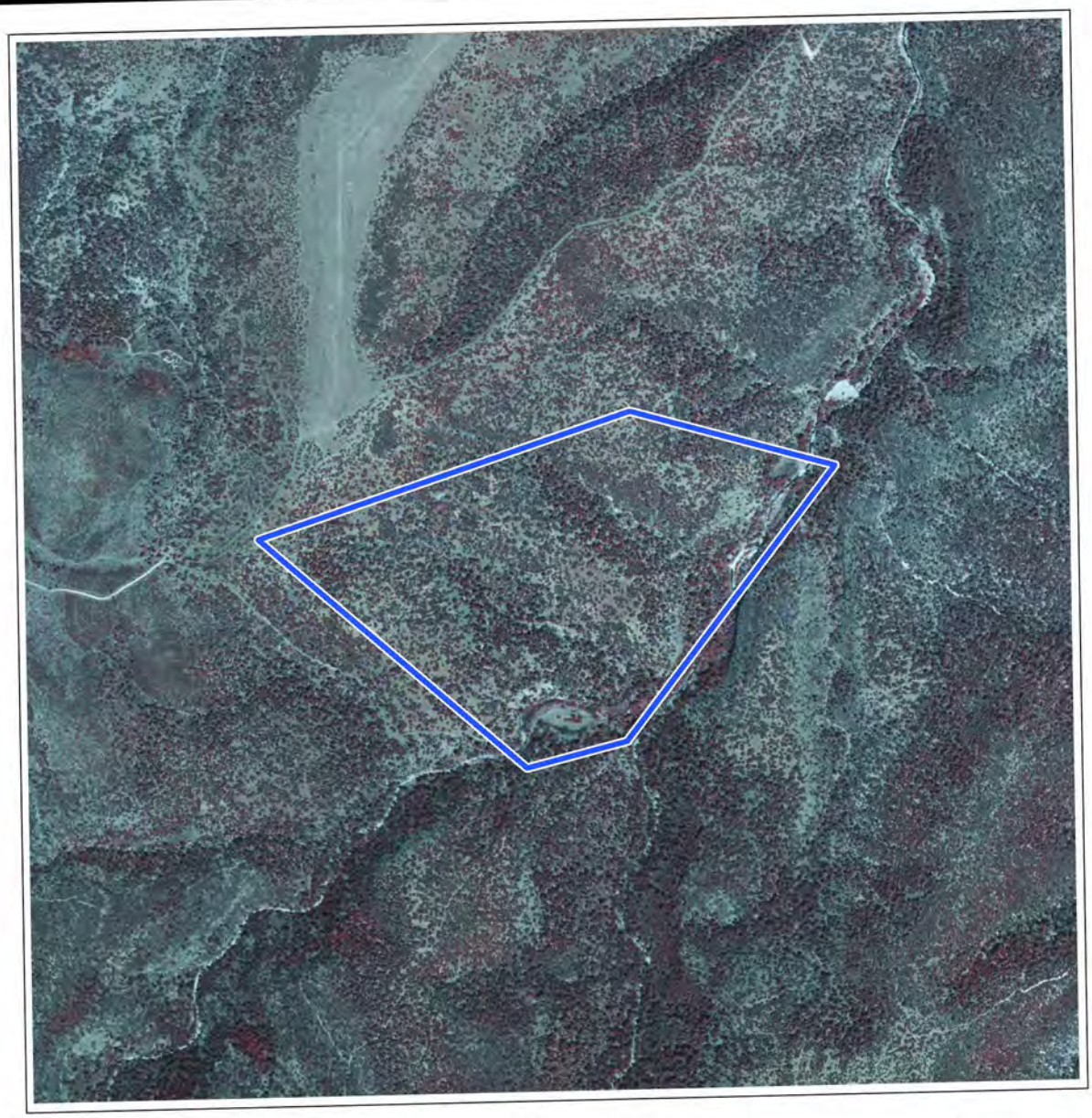
1971

Site:

FR 416 and FR 2768
Turkey Creek, AZ

©2013

ERS
ENVIRONMENTAL RECORD SEARCH



Historical Aerial Photo

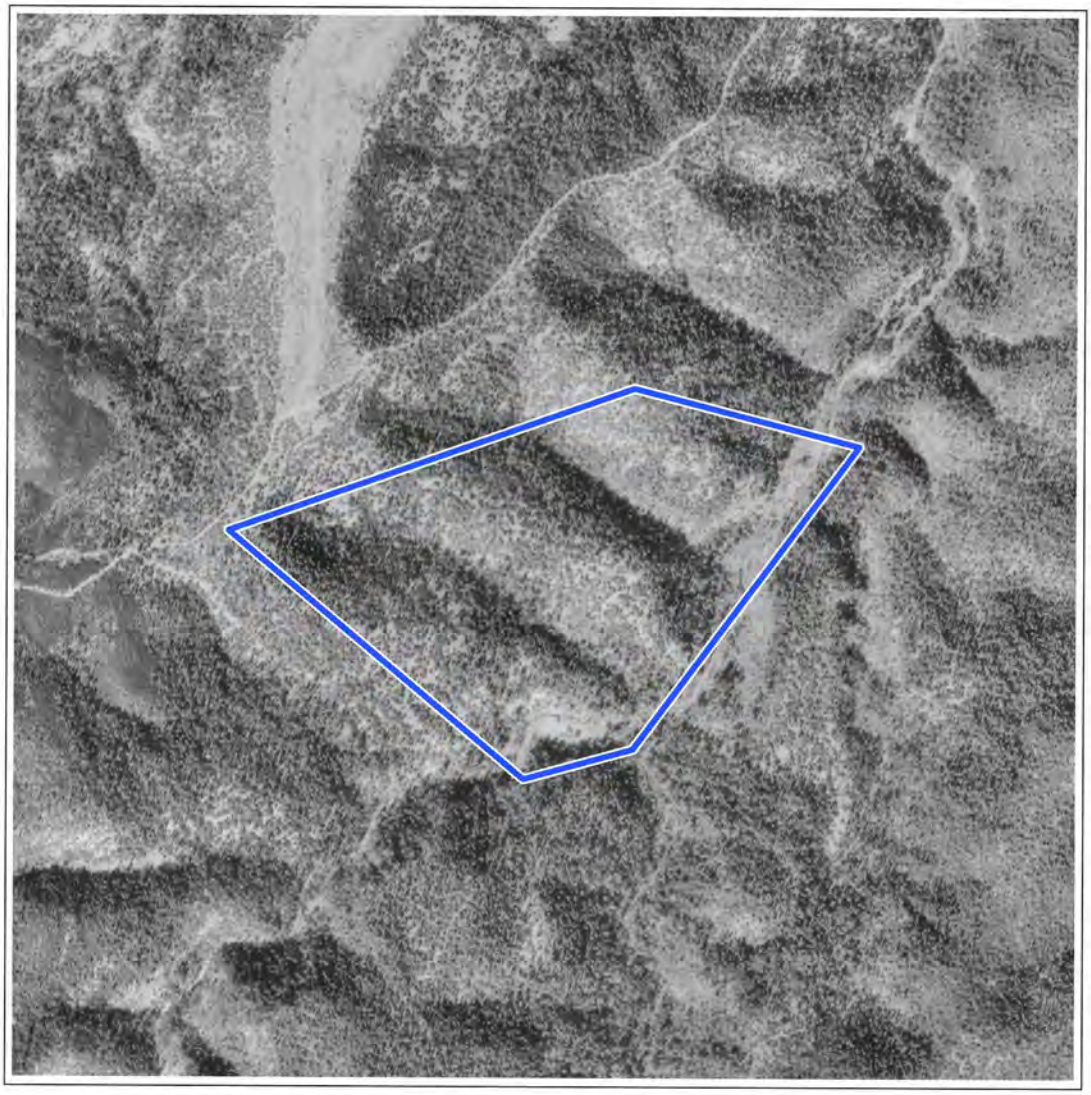
1980

Site:

FR 416 and FR 2768
Turkey Creek, AZ

©2013

ERS
ENVIRONMENTAL RECORD SEARCH

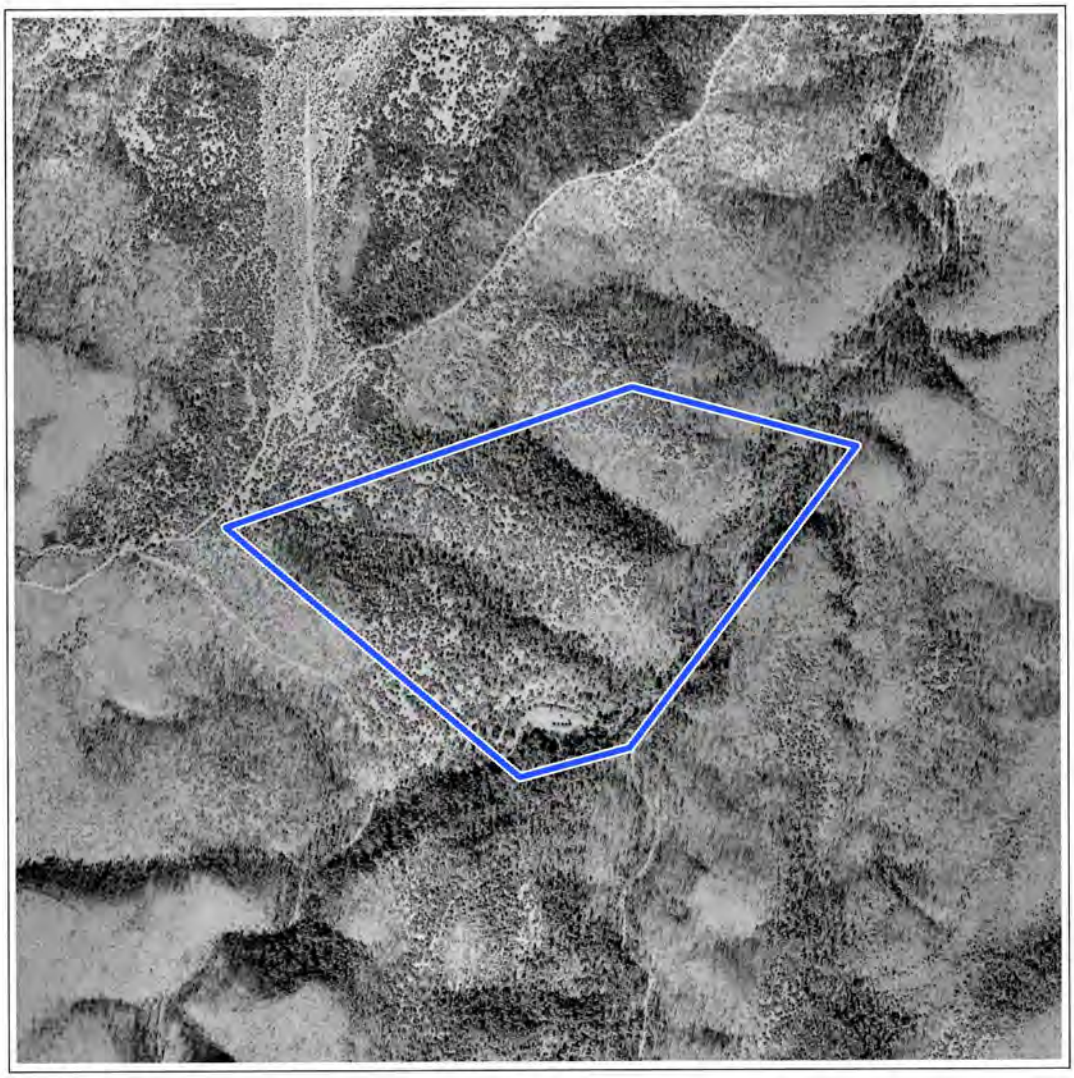


Historical Aerial Photo

Site:
FR 416 and FR 2768
Turkey Creek, AZ

1992

ERS
ENVIRONMENTAL RECORD SEARCH



Historical Aerial Photo

Site:
FR 416 and FR 2768
Turkey Creek, AZ

2003

 ©2013

ERS
ENVIRONMENTAL RECORD SEARCH

Historical Aerial Photo

Site:
FR 416 and FR 2768
Turkey Creek, AZ

2009

ERS
ENVIRONMENTAL RECORD SEARCH

Historical Aerial Photo

Site:
FR 416 and FR 2768
Turkey Creek, AZ

2016

 ©2013

APPENDIX H

Yavapai County Assessor Property Detail & Tax Records

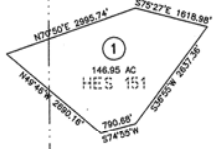
T7N R12E

201-05

CODE 3300

UPDATED 01-05-12

SEE MAP 305-36



6	5	4		2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

TONTO NATIONAL FOREST

SEE MAP 202-01

SEE MAP 201-11

N

SCALE = 1" = 2000'

(C) = CALCULATED

(R) = RECORDED

"FOR INFORMATION ONLY, NO LIABILITY ASSUMED."

GILA COUNTY ASSESSOR

Gila County Property Report

Wednesday, July 13, 2016

Account # : R000002218 Parcel # : 201-05-001 - Appraisal Year : 2016

Acct Type : Vacant Tax District : 3300 Map # : 05 Parcel Size : 146.95 acres

Owner Name and Address :

SWIFT CURRENT LAND & CATTLE LLC
PO BOX 1944
SUPERIOR AZ 85173

Property Location :

No #
AZ MH Space

Business/Complex :

Property Sales History

Sale Date	Doc Date	Book	Page	Type	Amount	Grantor	Grantee
8/2/2002	8/2/2002	-	12323	WD	$735,000.00	-	-
7/9/2004	7/9/2004	-	10748	QC	$820,000.00	GEORGE & VICTORIA RANDALL	ROBERT G & SALLY RANDALL
12/15/2005	12/15/2005	-	23123	WD	$845,000.00	GEORGE A RANDALL, ETAL	SWIFT CURRETN LAND & CATTLE LLC

Legal Description :

ELMER D BOODY PAT #627759 HES 151 ALL SEC 3 7N 12E;DRY FARM ING 5AC GRAZING 141.95AC 52/425 386/361

Building Count :

No Records Returned

Valuation:

Value Method:	Market	Full Cash Value (FCV):	$527,242.00	Use Code:	0004
		Limited Value (LPV):	$487,756.00	Property Use:	0004-VL-UNDET-RUR-NONSUBDIVID
Assessment Ratio:	15.00 %	Assessed FCV:	$79,086.00		
		Assessed LPV:	$79,086.00		

Disclaimer:

The Assessor’s Office has compiled information on this website that it uses to identify, classify, and value real and personal property. This website is not updated in ‘real time.’ The Assessor does not guarantee that any information provided on this website is accurate, complete, or current. The information provided on this site is not equivalent of a title report or a real estate survey. Users should independently research, investigate, and verify all information before relying on it or in the preparation of legal documents. Please contact (928) 402-8714 if you believe any information is incomplete, out of date, or incorrect so that the appropriate correction can be addressed. Please note that a statutory process is available to correct errors pursuant to Arizona Revised Statutes 42-16254

APPENDIX I

Résumés

WestLand Resources, Inc.
Engineering and Environmental Consultants

Mark F. Taylor, P.E.

Project Role and Responsibilities:
WestLand Resources, Inc., Principal QA/QC

Special Expertise:
- *Large Water System Master Planning*
- *Well Design and Permitting*
- *Environmental Site Assessments*
- *Reservoir Design and Analysis*
- *Arsenic Treatment Design*
- *Water System Modeling and Pipe Network Analysis*
- *Water Pumping Facility Design and Permitting*
- *Sewer Basin Studies*
- *Potable/Reclaimed Water Main Extensions*
- *Water and Wastewater Treatment Design*
- *Infrastructure Route Studies*
- *Potable/Reclaimed Water System Planning*
- *Sewer and Reclaimed Water System Master Planning*

Education:
- *M.B.A., University of Arizona*
- *B.S., Civil Engineering, University of Arizona*

Civil Engineering Registration:
- *Arizona #22999, 1989*
- *California #44219, 1989*
- *Nevada #09281, 1991*
- *New Mexico #14546, 1999*

Memberships:
- *Board Member - Citizen's Water Advisory Committee to the City of Tucson*
- *Finance Subcommittee Member - Citizen's Water Advisory Committee to the City of Tucson*

Background:

Mr. Taylor has over 25 years of experience in water resources wastewater engineering, and remediation systems including the design of systems for public works projects, master-planned communities, large commercial and retail centers, and the mining industry. He is responsible for the development of water system master plans; well, reservoir, booster station, and transmission main design; water treatment and arsenic treatment design; and the assessment of rates and development impact fees as well as wastewater master plan preparation, feasibility studies, system modeling and simulation, and capacity analyses; the design of wastewater treatment plants/disposal facilities, sewer infrastructure, lift stations and force mains, septic systems, and wetlands; and permit application, including aquifer protection permits, reclaimed water reuse permits, Arizona Pollutant Discharge Elimination System permits, recharge basin permits, and 208 plan amendments for private and municipal clients.

During the last 12 years, Mr. Taylor has served as Principal-in-Charge for WestLand's multi-disciplinary water and wastewater infrastructure projects, providing project management, design and technical supervision, project scheduling, and budget oversight. His plans and contract documents are technically accurate, buildable, and operationally efficient, leading to few, if any, change orders during construction.

Selected project experience includes:

Various Phase I Environmental Site Assessments. Performed and managed multiple Phase I Environmental Site Assessments at various locations in Arizona and acted as principal reviewer for technical reports. Experience includes site reconnaissance and characterization, environmental record sources review, personal interviews, and aerial photograph and topographical map interpretations. Elective sites generally exhibit little evidence of environmental liabilities with some wildcat dumping and numerous housekeeping issues of *de minimis* importance.

Tucson Water Dove Mountain 3.0-MG C-Zone Reservoir and D-Zone and E-Zone Booster Stations; Pima County, Arizona; Cottonwood Properties. As part of Tucson Water's regional planning efforts, Mr. Taylor served as Project Manager for the design of water infrastructure in support of the Dove Mountain development and other properties located at the intersection of Tangerine and Thornydale Roads. Consulting services for the 3.0-MG cast-in-place, hopper-bottom, reinforced-concrete, in-ground reservoir and two onsite booster stations included project management and coordination; surveying services; geotechnical investigation; corrosion monitoring design; structural engineering; civil engineering, site, and pipeline design; and landscape services. The new reservoir provides floating storage to the Tucson Water C-Zone and forebay storage capacity to both the onsite D- and E-Zone

booster stations. Civil engineering services included plans, specifications, and construction drawings for the booster station design, booster station piping layout, hydropneumatic tank and air compressor, reservoir piping, and valve vault equipment layout. The project was constructed per Tucson Water standards.

Dove Mountain Reclaimed Water Master Plan; Pima County, Arizona; Cottonwood Properties; Principal-in-Charge of the preparation of the Dove Mountain Reclaimed Water Master Plan, an update to the Reclaimed Water Master Plan for the Tortolita Mountain Properties Basin that had been prepared for approximately 1,800 acres within the Dove Mountain community and included two golf courses. WestLand's revised master plan incorporated the entire 5,600-acre community with provisions for up to five 18-hole golf courses. The Dove Mountain project is served by Tucson Water's Thornydale reclaimed water reservoir and booster station. In accordance with Tucson Water's pressure and velocity requirements, WestLand performed hydraulic modeling for each of the various phasing scenarios to determine the best phasing of construction for the proposed reclaimed water system infrastructure buildout.

Sahuarita Water Company Arsenic Treatment Design; Sahuarita, Arizona; Sahuarita Water Company. Principal-in-Charge of water system planning and design for the Sahuarita Water Company's centralized arsenic treatment facility and transmission system. WestLand coordinated with Layne Christensen in the preparation of the design drawings for a new 2,000-gpm Layne Christensen Adsorption Arsenic Treatment facility, providing specifications for the facility, electrical and instrumentation systems, and piping layout and sizing. Deliverables included a treatment system option evaluation, design report, an opinion of probable construction cost, and final plans and specifications. The facility was designed to be expandable for future needs. WestLand also provided construction bidding services for this project.

Las Quintas Serenas Water Company Arsenic Treatment and Well Site Upgrades; Green Valley, Arizona; Las Quintas Serenas Water Company. Principal-in-Charge of the design of arsenic treatment and water plant upgrades for Well Nos. 6 and 7. These included an iron media adsorption arsenic treatment system, a 400,000-gallon storage tank, and a 1,250-gpm variable-frequency-drive (VFD) transfer booster station. A new 2,500-lineal foot, 8-inch dedicated transmission water main was designed to connect Well No. 7 to the Well No. 6 site. Raw water from either or both wells is treated through the arsenic system at the Well No. 6 site, sent to fill the new tank, and pumped via the transfer booster station into the distribution system. Services provided by WestLand included site layout and grading; site piping and valving layout and sizing; preparation of booster pump and motor design specifications; and hydropneumatic tank design and associated equipment. WestLand prepared the design report, final plans and specifications, and engineer's opinion of probable construction cost.

City of Nogales Arsenic Treatment; Nogales, Arizona; City of Nogales Utilities Department. Principal-in-Charge of the development of design criteria for arsenic treatment at the Meadow Hills Wells Nos. 1 and 3 and Coronado Well No. 1. The Meadow Hills wells pump directly into the water distribution system and fill the existing City of Nogales North Zone storage tank, while the Coronado well pumps to the existing High School storage tank located in the City of Nogales Downtown Pressure Zone. All three wells required arsenic treatment in order to meet the new EPA arsenic standard. Arsenic treatment consisted of a dual-vessel iron-media adsorption system located at each well site.

Northwest CAP Delivery System Preliminary Route Evaluation and Analysis; Northwestern Pima County; Northwest Water Providers. For over a decade, the Flowing Wells Irrigation District, Metropolitan Domestic Water Improvement District, Town of Marana, and Town of Oro Valley have worked collaboratively to develop a sustainable water supply for their customers. This effort has evolved over time to focus on the establishment of a water delivery system to deliver Central Arizona Project water to northwestern Pima County. As part of this effort, Mr. Taylor served as Principal-in-Charge of the

development of a route analysis for the delivery system that would allow for the direct use of CAP water by each partner. The project consisted of three planning/engineering tasks: Task 1 – preliminary route evaluation, screening, and route evaluation matrix preparation; Task 2 – technical evaluation of alternative routes; and Task 3 – final route evaluation. Five potentially feasible routes were reviewed during the preliminary evaluation and screening process, two of which were identified for more detailed study.

Community Water Wells Nos. 10 and 11 Reservoir, Arsenic Treatment, Booster Station, and Transmission Main; Green Valley, Arizona; Community Water of Green Valley. Principal-in-Charge of the design of Community Water Well Nos. 10 and 11 sites, including arsenic treatment facilities, new 300,000-gallon forebay reservoirs, and booster pump stations. The new wells were designed to pump through a Layne Christensen coagulation filtration arsenic treatment process into onsite forebay reservoir. The reservoirs provide treated source water to booster stations that pump through dedicated well transmission mains to fill the Community Water Reservoirs No. 2 and No. 3. WestLand prepared the design report, final plans and specifications, and engineer's opinion of probable construction cost. Services provided by WestLand included site layout and grading; site piping and valving layout and sizing; preparation of well pump, column, and motor design specifications; and hydropneumatic tank design and associated equipment. In addition, several miles of 16-inch water main were designed to transport treated potable water to the Community Water reservoirs.

Oak Creek Water Company No. 1 Water System Master Plan; Sedona, Arizona; Oak Creek Water Company No. 1. Principal-in-Charge of the development of a master plan to address existing system deficiencies and future infrastructure requirements in support of a hook-up fee application with the Arizona Corporation Commission. As part of the preparation of the master plan, WestLand examined water source capacity and quality requirements, storage requirements, pressure requirements, fire flow requirements, water main requirements, land and easement requirements, and required system upgrades to serve proposed future development. WestLand prepared a master plan report and engineer's opinion of probable construction cost.

Red Rock Water Plant No. 1 Nitrate Treatment Plant; Pinal County, Arizona; Red Rock Utilities, LLC. Principal-in-Charge of the design of a nitrate treatment facility to mitigate the tested nitrate concentration of 10 to 12 parts per million at Water Plant No. 1. (The current primary maximum nitrate concentration limit is 10 ppm.) The treatment facility was installed at the discharge of the existing wellhead to treat half the full flow of 800 gpm to an approximate final mixed (half treated, half bypassed) nitrate concentration of 8 ppm. It consists of four steel filtration vessels that contain a chloride form of anion exchange resin media. Nitrate ions are exchanged onto the media releasing chloride ions resulting in a reduced concentration of nitrate in the treated water. The media is then backwashed with a sodium chloride brine solution to remove the nitrate ions and replace them with fresh chloride ions. The spent brine backwash water is sent to a holding tank for continuous low-flow disposal to the public sewer system. The treated water is sent to an existing onsite forebay reservoir.

WestLand Resources, Inc.
Engineering and Environmental Consultants

Diana Shiel Sandoval, MA

Project Role and Responsibilities:
Environmental Planner/Project Manager

Special Expertise:
- *National Environmental Policy Act, Administrative Record*
- *Phase I and II Environmental Site Assessments, Preliminary Initial Site Assessments*
- *Clean Water Act*
- *Endangered Species Act*
- *Public Disclosure/Public Reports*

Education/Training:
- *MA, Land Use & Community Planning, with distinction, Northern Arizona University*
- *BSc, Regional Development, Cum Laude, University of Arizona*
- *ASTM Phase I and Phase II Environmental Site Assessments for Commercial Real Estate Workshop*
- *National Environmental Policy Act Compliance Workshop (EA/EIS)*
- *Mine Safety and Health Administration Certification*
- *90-hour Real Estate Pre-licensing*

Professional Affiliations:
- *American Planning Association*
- *ASTM Committee E50 on Environmental Assessment, Risk Management and Corrective Action*
- *International Right of Way Association*

Background:

Ms. Sandoval's experience with environmental law began in her coursework studies including Natural Resources History and Policy, Water Resources Policy and Law, Land Development Processes, and Field Studies in Environmental Geography. Prior to joining Westland, Ms. Sandoval gained experience working as an intern for the Arizona Department of Water Resources and then spent three years with a national homebuilder where she was responsible for assisting in due diligence research and land acquisitions and entitlement for master planned communities in southern Arizona. Since joining WestLand in 2007, she has provided regulatory compliance and permitting services related to land use and transportation planning, renewable energy, mining, and residential and commercial development.

Ms. Sandoval has assisted in the completion of numerous Phase I Environmental Site Assessments (ESAs) for various property types pursuant to ASTM standards E1527-05, E1527-13 and E2247-08. She has also completed Preliminary Initial Site Assessments (PISAs) for public roadway projects prepared in accordance with Arizona Department of Transportation/ Federal Highway Administration requirements and Environmental Assessment and Mitigation Reports (EAMRs). Ms. Sandoval has completed ASTM technical and professional training for Phase I and II ESAs. WestLand's ESA team routinely receives compliments from clients and regulators regarding our professionalism and the consistent quality of our work product. Upon request, ESAs address non-scope items classified as outside the standard practice, including potential asbestos-containing building materials, potential lead-based paint, health and safety concerns, and ecological resources.

Her experience with National Environmental Policy Act (NEPA) process and other federal environmental planning requirements includes resource studies, community development assessment, scoping and public participation, alternatives analyses, and keeping the administrative record. Ms. Sandoval has completed professional training workshops for writing Environmental Impact Statements, Environmental Assessments, and Finding of No Significant Impact documentation.

She has obtained CWA Section 404 and 401 permit authorizations including residential and commercial property development; linear transportation projects for railroad, roadway, and utility extensions; bank stabilization projects; mine expansions; emergency discharges; and hazardous and toxic waste cleanup. She has completed jurisdictional delineations (JDs), and secured regional general permits (RGPs), nationwide permits (NWPs), and individual permits (IPs) from the U.S. Army Corps of Engineers.

Ms. Sandoval has assisted developers in meeting the requirements pertaining to City of Tucson environmental resource policies including floodplain, W.A.S.H. and E.R.Z. standards. She has worked with the City of Tucson Office of Conservation and Sustainable Development and managed the process for obtaining development standard modification requests, overlay zoning, and Stormwater Advisory Committee approvals.

She has provided environmental support for special zoning, including Conditional Use Permits for solar developments in Pima County inclusive of coordination with local environmental groups and the preparation of biological impact analyses, species surveys, and mitigation reports for impacts to protected species and habitat.

Diana Shiel Sandoval, MA

Selected Experience:

- Prepared numerous Phase I ESA reports for the Pima County Department of Environmental Quality also considering non-scope items, classified as outside the standard practice including: potential asbestos-containing building materials, potential lead-based paint, health and safety concerns, high-voltage power lines, and ecological resources.
- Completed several PISAs in anticipation of ADOT funding including the Town of Marana's project to improve Tangerine Road between Interstate-10 and La Canada, a project crossing into multiple jurisdictions including Pima County and the Town of Oro Valley; and the Town of Sahuarita's project replacing the Pima Mine Road bridge crossing over the Santa Cruz River.
- Completed Phase I Environmental Site Assessment and provided housekeeping recommendations including Spill Prevention, Control and Countermeasure (SPCC) Plan for confidential car-dealership and auto body repair shop in Tucson, Arizona.
- Managed environmental regulatory compliance for Tucson Electric Power transmission line project which will run approximately 41 linear miles in Pinal County (Pinal Central Substation to the Tortolita Substation). Assisted Tucson Electric Power in addressing National Environmental Policy Act, National Historic Preservation Act, Clean Water Act, Endangered Species Act, migratory bird protection, Arizona Pollutant Discharge Elimination System, State Native Plant Preservation and more. Coordinated with various federal entities and land management agencies to obtain all agreements, required permits and compliance documentation; the transmission line will cross privately-owned lands, lands owned by the State of Arizona and managed by the Arizona State Land Department (ASLD), federally owned lands managed by the Bureau of Reclamation (BOR) and the San Carlos Irrigation Project (SCIP), an agency of the Bureau of Indian Affairs (BIA). Ms. Shiel obtained an Approved Jurisdictional Determination from Army Corps of Engineers regarding the absence of jurisdictional waters for the project, documented that project was not likely to not adversely impact federally protected species, coordinated with Arizona Game and Fish Department to conduct surveys for candidate species in anticipation of potential federal listing, addressed plant salvage considerations for protected native species including vegetation clearing projections, and addressed state and federal archeological clearance requirements.
- Conducted special status species evaluation for confidential mining client encompassing approximately 100,000 acres (156 square miles) in Pima County. This evaluation considered species listed by the U.S. Fish and Wildlife Service under the Endangered Species Act and approximately 100 other species with potential to be listed in the future including species listed as Sensitive by the Bureau of Land Management (BLM), State of Arizona Species of Special Concern, Priority Vulnerable Species identified in the Sonoran Desert Conservation Plan website, and species identified by the International Union for Conservation of Nature and Natural Resources (IUCN) on the Red List of Threatened Species.
- Acted as Federal Emergency Management Agency's (FEMA) agent to consult with US Fish and Wildlife Service regarding potential impacts to lesser long-nosed bat for private development which needed a conditional letter of map revision (CLOMAR). Prepared biological evaluation, addressed US Fish and Wildlife Service comments, and managed federal agency's review of applicable records to obtain required clearances within the project's required development schedule.
- Acted as third party contractor to the Tonto National Forest maintaining the Resolution Pre-feasibility Activities Plan of Operations project file and prepared the administrative record. Managed Microsoft Access databases and indices of all project files; coordinated closely with interdisciplinary team to collect appropriate documentation for project decisions; identified records for redaction; and assisted in providing timely public comment and Freedom of Information Act (FOIA) responses.
- Assisted in obtaining Individual Section 404 permit authorization for Pima County Regional Flood Control District's bank stabilization project along the Pantano Wash between Speedway Boulevard and Tanque Verde Road. Work included preparation of the 404 and 401 applications, draft public notice, and 404(b)(1) Alternatives Analysis.
- Conducted riparian habitat assessment and completion of the Environmental Resource Report (ERR) for the El Rio Health Center Development in Tucson. The El Rio Health Center Development occurs along a W.A.S.H. designated watercourse. Ms. Shiel secured Development Services environmental policy approvals in compliance with Development Services Department (DSD) Full Notice Procedure (Chapter 23A-50 and 51) which required public coordination, overlay zone approval, and Stormwater Advisory Committee (SAC) authorization.
- Prepared Biological Impact Reports for Pima County Office of Sustainability & Conservation, addressed compliance with Maeveen Marie Behan Conservation Land System (MMB-CLS) and Regulated Riparian Habitat by preparing for on and offsite mitigation-conservation plans in collaboration with local, state, and federal agencies.

WestLand Resources

Jeffrey P. Charest, MA
Role

Education:

- MA, Anthropology, Northern Arizona University
- BA, Anthropology, University of Arizona

Awards:

- Kenny Acord Memorial Award: Northern Arizona University, August 2009
- Phi Beta Kappa Murphey Scholarship: University of Arizona, December 2003
- Anthropology Department Leadership Award: University of Arizona, May 2005

Special Expertise:

- Anthropological Archaeology
- Cultural Resource Management
- GIS
- Prehistoric Domestic Architecture, Southwestern U.S.

Background:

Mr. Charest received his BA in anthropology from the University of Arizona and his MA in anthropology from the Northern Arizona University in 2010. He has been doing field archaeology in the southwest since 2004 and was recently promoted by WestLand from crew chief to field director because of his field skills and writing ability. Mr. Charest's master's thesis explored Hohokam pithouse architectural morphology as a means to infer social ties between Hohokam villages, and he has worked on a number of Hohokam sites in the Tucson Basin. Presently, Mr. Charest is directing the excavation of a Middle Sedentary period habitation site on the Sahuarita Highlands alluvial fan south of the Zanardelli site in Tucson. Mr. Charest's permanent position is in the Flagstaff office, but he works out of the Tucson office when assigned to projects in southern Arizona.

Selected Experience:

Cultural Resources Inventories:

Cultural Resources Inventory of 24.09 Miles of Seismic Survey Lines on Arizona State Land Department Land; Maricopa and Yavapai Counties, Arizona; BHP Mineral Resources Inc. BHP proposes to conduct reflection seismologic (geophysical) survey on land managed by the Arizona State Land Department within the Aguila Valley northwest of Wickenburg. The purpose of the project is to identify iron-rich zones that assist in vectoring toward copper mineralization. The information gained from the survey would be ultimately used to select drilling sites. Mr. Charest performed a cultural resources survey of the 192.82-acre project area and identified two new archaeological sites and 31 isolated occurrences. One of the sites—AZ N:13:70(ASM), a railroad line—was recommended eligible for inclusion in the National Register of Historic Places; the other—AZ T:1:57(ASM), a resource-processing camp—was recommended not eligible due to a lack of significance. It was determined that the project would have No Adverse Effect on any register-eligible archaeological sites. The geophysical survey poses no danger to the extant railway line.

Cultural Resources Inventory of 4.28 Miles of Seismic Survey Lines on Arizona State Land Department Land; Apache County, Arizona; Twin Bridges, LLC. Archaeologist for survey along a seismic right-of-way corridor measuring 20 m wide and 6.89 km (4.28 miles) long prior to ground-disturbing activities (including off-road vehicular travel and the hand-placement of 6-inch geophone receivers into the ground). Three previously unknown archaeological sites and 21 isolated occurrences were identified during the survey. Two of the newly recorded sites were recommended eligible for inclusion in the National Register of Historic Places. WestLand recommended that the project would have No Adverse Effect on these sites provided that WestLand's list of management recommendations be followed. These recommendations included that the site boundaries be flagged with wooden lathe and flagging tape to prevent inadvertent trespass; that no vehicles enter into a flagged archaeological site; and that no excavation be conducted within a site boundary.

Cultural Resources Inventory of a 32-Acre Parcel North of Kingman; Mohave County, Arizona; Tucson Electric Power. TEP is considering an undeveloped 32-acre parcel of privately owned land north of Kingman for potential future

energy-related projects. Mr. Charest conducted an archaeological survey of the project area prior to the purchase of the property. No cultural resources sites were recorded in the project area and archaeological clearance was recommended.

Cultural Resources Inventory and Cultural Resources Clearance of 21.77 Acres for Repairs to a UNS Energy Natural Gas Pipeline; Sedona, Coconino National Forest, Yavapai County, Arizona; UNS Energy. UNS Energy needed to make repairs to a 1.6-km (1-mile) section of 4-inch high-pressure natural gas pipeline where erosion has exposed and damaged portions of the pipe. Mr. Charest served as Field Director on the project, which identified one new archaeological site. The site, a small lithic and ground stone scatter, was recommended eligible for inclusion in the National Register of Historic Places. A recommendation of No Adverse Effect was made contingent upon an archaeological monitor being present during ground-disturbing activities within 15 m (50 feet) of the site.

Cultural Resources Inventory of 633.88 Acres for the East Clear Creek Land Exchange; Coconino County, Arizona; Resolution Copper Mining, LLC. Field Director during a 633.88-acre pedestrian survey for Section 110 compliance. In anticipation of a land exchange between Resolution and the Coconino National Forest, WestLand conducted a cultural resources inventory of the land to be exchanged. Because the project area contained steep and rugged slopes, some areas were omitted from survey for safety considerations. Ultimately, WestLand systematically surveyed 248.62 acres of the total 633.88-acre project area. Three previously unknown archaeological sites, all low-density scatters of flaked stone debitage, and six isolated occurrences were discovered during the survey. No culturally or temporally diagnostic prehistoric artifacts were identified at any of the sites. WestLand recommended the sites eligible for inclusion in the NRHP under Criterion D, with the acknowledgment that the project is a land exchange and that no physical changes to the project area are proposed. Additional archaeological work was not required.

Cultural Resources Inventory of 158.58 Acres along the Gila River; Graham County, Arizona; Freeport-McMoRan. Field Director for a cultural resources inventory of an approximately 158-acre site known as the Emery Site. Freeport-McMoRan proposes to conduct compensatory mitigation activities within portions of the site, including tamarisk control and the planting of native tree species. Because these activities are ground-disturbing, they have the potential to adversely affect historic properties. During the survey, no cultural resources were identified and WestLand recommended that no additional archaeological investigation would be necessary.

Cultural Resources Inventory of 7.64 Miles of Access Roads for Tucson Electric Power Transmission Lines on the Gila and Apache National Forests; Catron County, New Mexico; Tucson Electric Power. Archaeological Field Technician for cultural resources inventory of approximately 7.64 miles of transmission line access roads on Gila National Forest land, including portions of the Apache National Forest. The 18 individual transmission line access roads included 17 not previously subjected to Section 106 inventory. TEP requires access to the twin 345-kV lines for vegetation management, maintenance, and inspection. The field survey identified six archaeological sites and eight isolated occurrences. WestLand recommended that the five sites recommended eligible for inclusion in the NRHP and the one site with a recommendation of undetermined eligibility be avoided by all ground-disturbing project activities. Otherwise, the development and implementation of a Historic Properties Treatment Plan would be required.

Cultural Resources Inventory of 159.64 Acres for the Dripping Spring Land Exchange; Gila and Pinal Counties, Arizona; Resolution Copper Company. Field Director for cultural resources inventory as part of a 159.64-acre land exchange between Resolution Copper and the Bureau of Land Management. For safety considerations, WestLand surveyed 54.71 acres (the survey area) of the total 159.64-acre project area. Four previously unrecorded archaeological sites and 15 isolated occurrences were discovered. WestLand recommended two sites, AZ V:13:268(ASM) and AZ V:13:269(ASM), eligible for inclusion in the NRHP. The other two sites, AZ V:13:270(ASM) and AZ V:13:271(ASM), were recommended ineligible due to a lack of significance. The project will have No Adverse Effect on any of the sites as no construction or other action is proposed. WestLand therefore recommended that no additional archaeological work need be undertaken.

Supplement to a Cultural Resources Inventory of Approximately 41 Miles for the TEP Pinal-Tortolita 500-kV Transmission Line; Pinal County, Arizona; Tucson Electric Power. TEP constructed a new single-circuit 500-kV transmission line from the Pinal Central substation to the Tortolita substation, a distance of approximately 41 miles. Prior

to construction, TEP contracted WestLand to perform a cultural resources inventory of the transmission line corridor. In response to minor alterations to the design of the project after the completion of the survey report, TEP hired WestLand to survey additional areas encompassing road intersections where wider turning areas were proposed, additional segments of access roads, locations where grounding rods needed to be installed, and pull site locations that had been shifted due to engineering changes. The new 29-acre survey area consisted of a number of small discontiguous supplemental polygons scattered across the larger project area. Mr. Charest served as Field Director for the project. No sites were identified, and the 10 isolated occurrences discovered did not meet the criteria of eligibility for inclusion in the National Register of Historic Places. WestLand recommended that the project would result in No Historic Properties Affected and that no additional archaeological work was necessary.

Cultural Resources Inventory of 2.44 Miles of Access Road between the Coolidge Municipal Airport and the El Paso Natural Gasline Road for the TEP Pinal-Tortolita 500-kV Transmission Line, Pinal County, Arizona; Tucson Electric Power. Field Director for cultural resources inventory of a 9-m-wide, 3.9-km-long existing dirt road that was used to provide vehicle access to the larger transmission line corridor. The survey area lies within lands administered by the Arizona State Land Department (3.49 linear kilometers) and the U.S. Department of the Interior Bureau of Reclamation (0.43 linear kilometer). One previously recorded site, wagon road AZ AA:3:318(ASM), crosses the survey area. WestLand recommended the site not eligible for inclusion in the NRHP as it lacked significance under the NRHP eligibility criteria and had been heavily disturbed by the construction of the airport access road.

Cultural Resources Inventory of 6.73 Miles of Seismic Survey Lines on ASLD Land by C.O. Bar Ranch; Coconino County, Arizona; Bird Seismic Services, Inc. Field Director for cultural resources inventory prior to reflection seismologic 3D (geophysical) survey on private lands and lands managed by the Arizona State Land Department. The survey resulted in the identification of one previously unrecorded site (AZ I:6:57[ASM]) and 10 isolated occurrences. The site contained a substantial collection of features and artifacts, including petroglyph panels, slab-lined pits, and projectile points, suggesting that it had been intermittently occupied for centuries. WestLand recommended that the project would have No Adverse Effect provided that the boundary was flagged to prevent inadvertent transgressions into the site.

Cultural Resources Inventory of 2.6 Miles of Seismic Survey Lines on ASLD Land; Apache County, Arizona; Bird Seismic Services, Inc. Field Director for cultural resources inventory prior to reflection seismologic 3D (geophysical) survey on lands managed by the Arizona State Land Department along the Puerco River southeast of Chambers. Archaeologists surveyed a 4.18-km, 20-m-wide corridor for a total survey area of 20.74 acres. Six previously unrecorded prehistoric sites and seven isolated occurrences were recorded during the survey. WestLand recommended that the proposed project would have No Adverse Effect on the four NRHP-eligible sites within the survey area provided Bird Seismic Services restricted vehicle access and conducted no excavation within the sites' boundaries.

Cultural Resources Inventory of 23.15 Miles of Seismic Survey Lines and Alternative Access Routes; Mohave County, Arizona; PacSeis, Inc. Field Director for cultural resources inventory prior to reflection seismologic 2D (geophysical) survey on private lands and lands managed by the Bureau of Land Management. Two previously unrecorded archaeological sites and five isolated occurrences were identified. One of the sites, a railway signal stop and associated historical trash dumps, was recommended eligible for inclusion in the NRHP. WestLand determined that the project would have No Adverse Effect as PacSeis was committed to the avoidance of all cultural resources regardless of their NRHP-eligibility status.

Testing and Data Recovery Plans:

Treatment Plan for Phase I Data Recovery of AR-03-07-01-2166; Williams Ranger District, Kaibab National Forest, Coconino County, Arizona; Fennemore Craig. Lost Canyon, Young Life summer camp is proposing to purchase a parcel of federal land managed by the Kaibab National Forest. The parcel, which is located 2 km southeast of Williams, Arizona, contains a known archaeological site, AR-03-07-01-2166, that consists of a small cave sheltered in the western face of a cliff. San Francisco Mountain Gray Ware sherds were discovered at the site during previous archaeological surveys, prompting site recorders to interpret the site as a seasonal Cohonina shelter and encampment.

The U.S. Forest Service recommended the site eligible for inclusion in the National Register of Historic Places and the Arizona State Historic Preservation Office concurred. Mr. Charest prepared an archaeological treatment plan for phased data recovery at AR-03-07-01-2166. The goals of the archaeological data recovery are to identify any subsurface archaeological features and deposits at the site and to mitigate the adverse effects to the site posed by the proposed land purchase.

Tangerine Road Widening Project: Archaeological Testing Plan for Archaeological Sites AZ AA:12:82(ASM) and AZ AA:12:422(ASM); Pima County, Arizona; Town of Marana. The Town of Marana plans to widen and improve approximately 10 linear miles of Tangerine Road. The project area measures 107 m (350 feet) wide and has the potential to adversely affect historic properties that have significance in local, state, and national history and prehistory. The Town retained WestLand to prepare an archaeological treatment plan to identify subsurface archaeological features and deposits at AZ AA:12:422(ASM) in support of data recovery and at AZ AA:12:82(ASM) to provide enough data to make an informed recommendation as to its NRHP eligibility. Mr. Charest developed the treatment plan for archaeological testing at the two sites.

Testing and Data Recovery:

NRHP-eligibility Testing at AZ AA:12:726(ASM) and AZ AA:12:1118(ASM) along Tangerine Road; Oro Valley, Pima County, Arizona; Town of Marana. The Town of Marana plans to widen and improve Tangerine Road from the Twin Peaks Road/Dove Mountain Boulevard intersection to La Cañada Drive. Proposed road improvements include road widening, paving, and the installation of drainage culverts and erosion controls along Thornydale Road. Following a Class III cultural resources inventory of the project area, two sites—AZ AA:12:726(ASM) and AZ AA:12:1118(ASM)—were recommended for additional National Register of Historic Places-eligibility testing. Mr. Charest served as Field Director for the testing project. WestLand archaeologists collected artifacts from two 10-by-10-m surface collection units at each site, and two trenches measuring 10 m long were excavated at each site down the centerline of the collection units. No subsurface cultural features were discovered. WestLand recommended the sites as not eligible for inclusion in the NRHP due to a lack of site integrity and significance.

Pinal-Tortolita 500-kV Transmission Line Archaeological Excavations on Private Lands; Pinal County, Arizona; Tucson Electric Power. TEP constructed a new single-circuit 500-kilovolt transmission line that crossed privately owned lands and lands owned and managed by the Arizona State Land Department. TEP avoided and minimized impacts to NRHP-eligible properties during the project's final design phase, but some archaeological sites could not be avoided. Two of these were on private land. Mr. Charest served as Field Director for data recovery at AZ AA:3:316(ASM) and AZ AA:3:317(ASM), which involved systematic surface artifact collections and the excavation of trenches to expose sediment strata and archaeological features in profile. Testing was restricted to those areas that would be adversely affected during the construction of the transmission line. The project revealed that the occupation of the prehistoric sites in the project area was likely inextricably linked to activities at the Brady Wash Complex, a series of habitation sites, agricultural areas, and resource-procurement and processing loci surrounding a platform mound located on the southern bank of Brady Wash between the northern Picacho Mountains and the Picacho Reservoir.

Pinal-Tortolita 500-kV Transmission Line Data Recovery and NRHP-eligibility Testing for Five Sites on Arizona State Land Department Lands; Pinal County, Arizona; Tucson Electric Power. TEP constructed a new single-circuit 500-kV transmission line that crossed lands owned and managed by the Arizona State Land Department. TEP avoided and minimized impacts to NRHP-eligible properties during the project's final design phase, but some archaeological sites could not be avoided. Following the preparation of a treatment plan, four archaeological sites on ASLD land were recommended for data recovery and one for NRHP-eligibility testing. Mr. Charest served as Field Director on the project, which involved systematic surface artifact collections and the excavation of trenches to expose sediment strata and archaeological features in profile. Testing was restricted to those areas that would be adversely affected during the construction of the transmission line. Phase I data recovery did not result in the discovery of any subsurface cultural materials at AZ AA:3:300, AZ AA:3:304, AZ AA:3:305, or AZ AA:3:306 (all ASM), and Phase II data recovery

was therefore not conducted. Following eligibility testing at AZ AA:3:318(ASM), a historical wagon road, it was determined that the site did not represent the historical reuse of an existing prehistoric trail.

Monitoring:

Cultural Resources Discovered during Construction Monitoring in Support of the TEP Pinal-Tortolita 500-kV Transmission Line; Pinal County, Arizona; Tucson Electric Power. TEP constructed a new single-circuit 500-kV transmission line from the Pinal Central substation to the Tortolita substation, a distance of approximately 41 miles. Mr. Charest monitored construction activities in those areas near known archaeological sites to ensure that construction activities did not have an adverse effect on cultural resources. During monitoring, WestLand discovered one previously unknown archaeological site (recommended NRHP-ineligible) and a pit feature approximately 35 m northeast of a previously recorded site. TEP construction activities avoided the site, and WestLand excavated the feature and extended the site boundary to encompass it. No significant impacts to archaeological sites resulted from any of the construction activities.

Other Selected Experience:

Field Director for Quail Creek Data Recovery, Sahuarita, Arizona. Supervised archaeological fieldwork, prepared project reports, planned and executed treatment plan.

Crew Chief, Cultural Resources Inventory of 6,024 Acres for the Proposed Bagdad Waterline; Maricopa and Yavapai Counties, Arizona; Freeport-McMoRan Corporation.

Luke Air Force Base Solar Mitigation Data Recovery (Middle Archaic). Crew Chief. Monitored mechanical stripping, excavated archaeological features, prepared archaeomagnetic samples, and supervised crew.

Coconino National Forest, Happy Jack, Arizona. GIS archaeological database management.

Simplot Phosphates, LLC, Class III Survey, Cedar City, Utah. Conducted archaeological survey, recorded sites, and photographed archaeological features.

Adkins Steel Data Recovery (Historic period/Rincon phase Hohokam). Edited crew paperwork for accuracy, excavated archaeological features, prepared maps and field paperwork, photographed archaeological features.

Luke Air Force Base Solar Mitigation Data Recovery (Middle Archaic). Excavated archaeological features, prepared maps and field paperwork, and photographed archaeological features.

Western Area Power Authority Glen Canyon-Pinnacle Peak Transmission Line Class III Survey. Conducted archaeological survey, recorded sites, operated Trimble GPS receiver, photographed archaeological features, and prepared portions of the final technical report.

Thornton Road-EMP Substation Monitoring. Monitored and protected cultural resources during transmission line construction, operated Trimble GPS receiver, photographed archaeological features, and prepared daily logs.

SunZia Transmission Line Class II Survey. Conducted archaeological survey, recorded sites, operated Trimble GPS receiver, photographed archaeological features, and prepared portions of the final technical report.

Las Capas RWRF Data Recovery (Archaic-Early Agricultural period). Excavated archaeological features, prepared maps and field paperwork, and photographed archaeological features.

Yuma Wash Data Recovery (Pre-Classic period Hohokam). Supervised 7 to 10 field crew, edited crew paperwork, excavated and photographed archaeological features, and prepared maps/field paperwork.

Site Files Search – Navajo Archaeological Site Files, Window Rock, Arizona. Conducted Class I records search and compiled data on previous survey work.

Nogales Airport Class III Survey. Conducted archaeological survey and operated GPS equipment.

Ironwood Forest National Monument Class III Survey. Conducted archaeological survey, recorded sites, operated Trimble GPS receiver, photographed archaeological features, and prepared portions of the final technical report.

Honeybee Village Data Recovery (Pre-Classic/Classic period Hohokam). Supervised 10 to 15 field crew, edited crew paperwork, excavated features, prepared maps and field paperwork, photographed archaeological features, and prepared portions of the final technical report.

Mission San Agustín Data Recovery (Archaic Historic periods). Supervised 5 to 10 field crew, edited crew paperwork, excavated features, prepared maps and field paperwork, photographed archaeological features, and prepared portions of the final technical report.

Depot Plaza Data Recovery (Historic period). Edited crew paperwork for accuracy, excavated features, prepared maps and field paperwork, and photographed archaeological features.

Honeybee Village Data Recovery (Pre-Classic/Classic period Hohokam). Excavated archaeological features and prepared maps and paperwork.

Columbus Park Data Recovery (Archaic period). Excavated features, prepared maps and field paperwork, and photographed archaeological features.

Tanque Verde Wash Data Recovery (Pre-Classic/Classic period Hohokam). Excavated features, prepared maps and field paperwork, and photographed archaeological features.

Presidio San Agustín del Tucson Data Recovery (Archaic-Historic periods). Excavated archaeological features and prepared maps and field paperwork.

Lot 7 Data Recovery (Historic period). Excavated archaeological features and prepared maps and field paperwork.

Kingman, Arizona, Class III Survey. Conducted archaeological survey and operated GPS equipment.

Sahuarita, Arizona, Expansion Class III Survey. Conducted archaeological survey and operated GPS equipment.

Cortaro Road/I-10 Data Recovery. Excavated Archaic features, prepared field paperwork and maps. Recorded archaeological features in trench profiles, prepared scale profile drawings and field paperwork.

Yuma Wash Data Recovery (Pre-Classic period Hohokam). Excavated archaeological features and prepared maps and field paperwork.

Selected Publications:

Purcell, David E., Jeffrey P. Charest, and Avi Buckles
2013 *A Cultural Resources Inventory of the Proposed Bagdad Waterline in Maricopa and Yavapai Counties, Arizona.* Cultural Resources Report 2013-XX. WestLand Resources, Inc., Tucson.

Charest, Jeffrey P.
2013 Archaeological Features Discovered during the Fort Lowell-Adkins Steel Soil Remediation Project. In *Archaeological Investigations at the Fort Lowell-Adkins Steel Property Locus of Fort Lowell, AZ BB:9:40(ASM), Tucson, Pima County, Arizona*, edited by J. Homer Thiel, pp. 17–58. Technical Report No. 2012-12. Desert Archaeology, Inc., Tucson.

Charest, Jeffrey P., and CaraMia Whitney
2011 Descriptions of Structures in the North Loci. In *Archaeological Investigations at Honey Bee Village, a Prehistoric Hohokam Ballcourt Village in the Cañada del Oro Valley of Southern Arizona: Description of Excavated Features*, edited by D. L. Swartz, pp. 217–308. Technical Report No. 2011-08. Desert Archaeology, Inc., Tucson.

Charest, Jeffrey P., and CaraMia Whitney
2011 Descriptions of Structures in the South Loci. In *Archaeological Investigations at Honey Bee Village, a Prehistoric Hohokam Ballcourt Village in the Cañada del Oro Valley of Southern Arizona: Description of Excavated Features*, edited by D. L. Swartz, pp. 99–161. Technical Report No. 2011-08. Desert Archaeology, Inc., Tucson.

Charest, Jeffrey P., and CaraMia Whitney
2011 Descriptions of Structures in the West Loci. In *Archaeological Investigations at Honey Bee Village, a Prehistoric Hohokam Ballcourt Village in the Cañada del Oro Valley of Southern Arizona: Description of Excavated Features*, edited by D. L. Swartz, pp. 163–217. Technical Report No. 2011-08. Desert Archaeology, Inc., Tucson.

Swartz, Deborah L., Jeffrey P. Charest, and CaraMia Whitney
2011 Descriptions of Structures in the East Loci. In *Archaeological Investigations at Honey Bee Village, a Prehistoric Hohokam Ballcourt Village in the Cañada del Oro Valley of Southern Arizona: Description of Excavated Features*, edited by D. L. Swartz, pp. 3–98. Technical Report No. 2011-08. Desert Archaeology, Inc., Tucson.

Charest, Jeffrey P.
2010 Defining Hohokam Supravillage Community Boundaries through an Analysis of Domestic Architecture. Unpublished Master's Thesis. Northern Arizona University, Flagstaff.

Whitney, Gregory J., Jeffrey P. Charest, and Michael W. Lindeman
2008 *A Class III Cultural Resources Inventory of Selected Road Segments within and Immediately Adjacent to the Ironwood Forest National Monument, Arizona.* Project Report No. 07-134. Desert Archaeology, Inc., Tucson.

WestLand Resources, Inc.
Engineering and Environmental Consultants

Christopher E. Rife

Project Role and Responsibilities:
Senior Project Manager

Special Expertise:
- *Mining*
- *Water Resources*
- *Solid and Hazardous Wastes*
- *Environmental Site Assessments*
- *Manufacturing*
- *Oil and Gas*
- *Power*
- *Health and Safety*

Education:
- *M.A., Environmental Policy and Management, University of Denver, Colorado, 1995*
- *B.A., Philosophy, Humboldt State University, California, 1980*

Affiliations:
- *Environmental Auditing Roundtable*
- *Southern Arizona Environmental Management Society*
- *Society of Mining Engineers, Tucson Chapter*

Background:

Mr. Rife is a Senior Project Manager in the Environmental Services Group. He specializes in regulatory compliance for environmental and engineering projects. Other areas of his expertise include water resources, mining, agriculture, environmental site assessment (ESA), underground storage tank (UST) investigations, solid and hazardous waste, and health and safety audit services. He has over 20 years of experience conducting ESAs and has been responsible for ESA projects for more than 350 broad-ranging sites, including public, private, and industrial properties; solid waste facilities; mines; and he has conducted pilot-scale testing of remedial systems. He has worked on environmental projects in the western United States and Mexico.

Selected Project Experience:

Confidential Site, Arizona. Conducted Phase I ESA of 3,500-acre site along a river bed in central Arizona. The work was conducted on behalf of a mining client in anticipation of a potential land exchange with federal agencies. The site included significant stands of undisturbed mesquite bosque and mesoriparian plants, with little evidence of environmental liabilities from limited agricultural activities historically performed on part of the property. Some wildcat dumping and numerous abandoned automobiles were observed; these were considered housekeeping issues of *de minimis* importance.

Confidential Residential Development Site; Tucson, Arizona. Managed biological assessment of 17-acre site southeast of the Tucson metropolitan area. Previous consultants had not advised the developer of permitting and biological assessment regulatory requirements, resulting in violations of the federal Clean Water Act (CWA) and Endangered Species Act, as well as the Pima County Native Plant Preservation Ordinance. WestLand is currently completing the biological assessment and will assist the client in negotiating with regulatory agencies, especially in ESA Section 7 consultation.

Road Improvement and Park Development Site; Marana, Arizona. Task manager for CWA Section 404 permitting of road widening, drainage improvement, riverbank stabilization, and district park development for a community northwest of Tucson. Conducted a CWA Nationwide Permit applicability assessment and is currently performing an alternatives analysis. Future work will include public notification and preparation of the environmental assessment.

Prospective Municipal Solid Waste Landfill Site; Arizona. Project Manager for site investigation of a location in central Arizona for potential development as a municipal solid waste facility. The project included an engineering suitability evaluation, jurisdictional delineation of waters of the United States, and a biological evaluation of special-status species.

Silverbell UST/Leaking UST Site; Marana, Arizona. Managed closure project at site with 11 USTs. Three leaking USTs were identified during the tank removal activities. Appropriate reports were submitted to ADEQ and scoping of site characterization activities for the leaking UST sites was performed.

Confidential Hazardous Waste Site; United States. Principal internal reviewer of Phase I ESA reports for 60 hazardous waste collection sites, transfer facilities, incinerators, and landfills on behalf of client bidding to purchase portfolio. Included fast-track mobilization of field investigators from offices across the country; coordination of document review, reporting, and responding to client inquires; and strict confidentiality protocols.

WestLand Resources, Inc.
Engineering and Environmental Consultants

Sarah M. Richman

Project Role and Responsibilities:
Environmental Specialist

Training and Special Expertise:
- *Environmental Planning and Assessment*
- *Mine Safety and Health Administration Certifications*
- *Regulatory and Planning Research*

Education:
- *B.A., Environmental Studies and Business Economics, University of California, Santa Barbara*
- *Master of Environmental Science and Management (MESM), University of California, Santa Barbara*

Background:

Ms. Richman holds a Master of Environmental Science and Management specializing in pollution prevention and remediation and corporate management from the University of California, Santa Barbara. Ms. Richman's environmental consulting expertise includes permitting, technical studies, and environmental analyses for both private and public land development projects. During her tenure at WestLand Resources, Inc., (WestLand), Ms. Richman has worked on permitting for exploration drilling projects, biological resource reports, and Phase I Environmental Site Assessments (ESAs). She is proficient in project and task management and effectively communicates science and policy to a broad range of audiences.

She has assisted in the completion of several Phase I ESAs for various property types pursuant to E1527-13 and E2247-08. She has also assisted in the completion of Preliminary Initial Site Assessments (PISAs) for roadway projects. WestLand's ESA team routinely receives compliments from clients and regulators regarding our professionalism and the consistent quality of our work produce. Upon request, ESAs address non-scope items classified as outside the standard practice, including potential asbestos-containing building materials, potential lead-based paint, health and safety concerns, and ecological resources.

Ms. Richman has experience with both National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) processes and documentation. She has completed multiple Health Risk Assessments (HRAs) to analyze impacts of mobile and stationary sources of pollution on sensitive human populations. She has also completed technical studies, scoping and public participation, and noticing for multiple projects.

Past Experience:

- Coordination and support provided for confidential mine client including permitting support, biological resource documentation, and field coordination.
- Worked on the team completing the air quality and greenhouse gas emissions analysis for one segment of the California High Speed Rail CEQA/NEPA documentation.
- Provided project management and support services for noise, aesthetics, and air quality studies, as well as the Initial Study for commercial and residential development at a proposed Specific Plan site in Southern California.
- Completed multiple EAs for the City of Mesa's projects developing parks and low-income housing.
- Coordinated noticing, including newspaper publication, for multiple projects throughout California.
- Participated in numerous courses focused on remediation of pollution in the environment while earning Master's degree.