

**PHASE I ENVIRONMENTAL ASSESSMENT  
NON-FEDERAL PARCEL, TANGLE CREEK  
(LX BAR RANCH)  
YAVAPAI COUNTY, ARIZONA  
Resolution Copper**

Prepared for:



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

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## 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 148 acres referred to as the Tangle Creek parcel (“the Property”). The Property is located in Township 9.5 North, Range 5 East, in portions of Sections 34 and 35 and Township 9 North, Range 5 East, in a portion of Section 2, relative to the Gila and Salt River Baseline and Meridian, Yavapai County, Arizona (**Figure 1**). The Yavapai County Assessor Parcel Number (APN) for the Property is 501-25-002.

An aerial photo showing the Property boundaries, as well as the location of GPS referenced ground photographs 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 Standard Testing Method (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 April 29, 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 Yavapai County APN 501-25-002 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 April 15, 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 prior Phase I ESAs was completed by WestLand in March 2004. The 2004 Phase I ESA revealed no evidence of RECs in connection with the Property. However, notable findings in that report include the presence of four 55-gallon drums containing Number 2 diesel in one out building on the Property; evidence of soil staining (a few square feet) observed in the vicinity of those drums; another 55-gallon drum in a waste disposal site, north of the home site with residual amounts of an unknown substance that was not leaking; and two automobile batteries observed near the home site. However, due to an apparent map projection difference, WestLand has determined that the boundaries of the Property evaluated for the Phase I ESA in 2004 and for this current Phase I ESA are slightly different. The only material difference between the Property's position in 2004 compared to recent maps, is the LX Bar Ranch headquarters site. Due to refined surface management mapping, it is apparent that the features identified in the 2004 report at the ranch headquarters are actually on adjoining land to the south and not at the Property. As a result of this discrepancy, the Property owner inadvertently reiterates the findings of the 2004 report regarding the presence of building structures, four drums, soil staining and batteries at the ranch headquarters, on the Property, when in fact, they are located on adjoining land immediately south of the Property. One drum identified in the 2004 report is located at the Property, that drum was observed in the 2016 site reconnaissance but did not appear to contain more than traces of fluid and was not observed to be leaking.

The prior Phase I ESA reports the presence of three waste disposal sites (one concentrated household waste disposal site and two other smaller areas of waste disposal), several pallets of cement blocks, as well as decaying agricultural equipment are present throughout the Property. Again, these are not considered RECs but rather housekeeping issues. In 2016 WestLand did observe several dump sites comprised of inherit material and decaying agricultural equipment and infrastructure. However, these findings would not be considered RECs.

Physical Setting. The Property is located within the Central Highlands physiographic province, a transition zone between the Basin and Range and the Colorado Plateau provinces. The Property is located near the center of a broad valley with gently sloping to rolling hills known as Bloody Basin. Tangle Creek bisects the Property from west-northwest to east-southeast. Tangle Creek is a substantial tributary to the Verde River located downstream of the Property. Elevations within the Property range from 2,900 feet above mean sea level (amsl) in the southeastern most corner of the Property to 3,000 feet amsl at a high point at the northwestern boundary.

**Historical Use.** The Property and adjoining land (including the larger LX Bar Ranch) was reportedly homesteaded, and used for livestock grazing and farming from the 1890s until the 1990s. It would be practical for a homesteader to build a house and corral on the bluff above the streambed and floodplain, where fields would be developed. The ranch headquarters for LX Bar were located on adjoining land to the south. Associated improvements located at the Property include roads, trails,

wells, and agricultural fields. Based on county assessor records, a “farm utility building” was constructed at the Property in 1958 though it is no longer present at the Property.

**Site Reconnaissance.** On March 28 through March 31, 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 purpose. It is generally undisturbed stream bottom land (stream channel plus floodplains) in a broad basin and surrounding upland areas. The Property appears to have been used in the past (as part of a larger property) for historic homesteading including agricultural use which is now reverting to natural vegetation. Developed features at the Property are limited. An overgrown dirt road, a concrete small foundation, remnants of a concrete dam/revetment structure, water pipelines, water troughs, and two wells are the only existing improvements on the Property.

The wells at the Property are hand-dug wells. The Property owner indicates there are ADWR files from April 1982 referring to these two wells; however, WestLand did not identify any well records for wells at the Property though our ADWR inquiry. There are two ADWR registered wells located within one mile of the Property. These wells (on land within one mile of the Property) are registered for use for irrigation, stockwater and domestic use. It is not suspected that these wells were associated with industrial activity, waste water disposal, or as monitoring wells for any known contamination in the area.

Building materials and other inert, scattered debris likely associated with the homesteading and/or agricultural uses were found on the Property. There is no evidence of intense recreational use of the site, though a shot up paint container suggests dispersed hunting or recreational shooting has likely occurred. There has been no recent use of the Property by the current owner.

Adjoining land is managed by United States Forest Services (USFS) as part of the Tonto National Forest. There are several unimproved (unpaved) roads providing public access to the area which is likely used for recreational and agricultural purposes. Grazing allotments are mapped at the Property and on surrounding lands in all directions (Conservation Biology Institute 2016). Several structures associated with past ranching occupation are located on adjoining land south of the Property.

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

- The report User and Property owner (Ms. Casey McKeon, representative for Resolution Copper Mining),
- **Government officials:** Representatives from Mayer Fire Department, Black Canyon Fire Department, and El Mirage Fire Department, and

- The former Property owner: Mr. Garry J. Shuster (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.

## I. 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 148 acres referred to as the Tangle Creek parcel also known as the LX Bar Ranch parcel (“the Property”). The Property is presently under non-federal ownership (Swift Current Land & Cattle LLC), but proposed as part of a land exchange with the United States Forest Services (USFS) under the Southeast Arizona Land Exchange and Conservation Act of 2013. The Property is located in portions of Sections 34 and 35, Township 9.5 North, Range 5 East, and in a portion of Section 2, Township 9 North, Range 5 East, relative to the Gila and Salt River Baseline and Meridian, Yavapai County, Arizona (**Figure 1**). The Yavapai County Assessor Parcel Number (APN) for the Property is 501-25-002.

### I.1. PURPOSE

The purpose of this investigation was to conduct an assessment of the Property and surrounding areas to identify Recognized Environmental Conditions (RECs) potentially resulting in environmental impacts to the Property. According to the American Society for Testing Materials (ASTM) E 2247-08 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property*, a recognized environmental condition 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. The Property owner has continuing obligations, if applicable, to receive liability protections in addition to the *All Appropriate Inquiry* (40 CFR Part 312). 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.

## **I.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.

## **I.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.

#### **I.4. SPECIAL TERMS AND CONDITIONS**

No special terms or conditions are associated with this report.

#### **I.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.

#### **I.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 located along the streambed and adjacent upland areas of Tangle Creek in Yavapai County, Arizona. The Property is approximately 30 miles north of the town of Carefree, Arizona in portions of Sections 34 and 35, Township 9.5 North, Range 5 East, and in a portion of Section 2, Township 9 North, Range 5 East, Gila and Salt River Baseline and Meridian, Yavapai County, Arizona (**Figure 1**). The Yavapai County APN for the Property is 501-25-002.

### **2.2. SITE AND VICINITY GENERAL CHARACTERISTICS**

The Property consists of approximately 148 acres surrounding a one-mile long portion of Tangle Creek, an intermittent tributary of the Verde River (Arizona Department of Water Resources, 2016), about 30 miles north of the town of Carefree in Yavapai County, Arizona. The Property is located in the Bloody Basin of the Tonto National Forest, with the New River Mountains to the west. There is no evidence of an established town in the immediate vicinity. The Property was reportedly homesteaded in the early 1890s and the primary use at that time was for agricultural purposes.

### **2.3. CURRENT USE OF THE PROPERTY**

Currently, the Property is not used for any formal purpose. It is generally undisturbed stream bottom land (stream channel plus floodplains) in a broad basin and surrounding upland areas. The Property appears to have been used in the past (as part of a larger property) for historic homesteading including agricultural use and which is now reverting to natural vegetation. Cattle grazing at the Property reportedly ceased in the 1990s. Based on observations during the site reconnaissance, it is likely that the Property is currently used for dispersed recreational activities.

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

Developed features at the Property are limited. An overgrown dirt road, a concrete small foundation, remnants of a concrete dam/revetment structure, water pipelines, water troughs, and hand dug wells associated with past agricultural activities are the only existing improvements on the Property.

### **2.5. CURRENT USES OF ADJOINING PROPERTIES**

Adjoining land is managed by USFS as part of the Tonto National Forest. There are several unimproved (unpaved) roads providing public access to the area. Grazing allotments are mapped at

the Property and on surrounding lands in all directions (Conservation Biology Institute 2016). Several structures associated with past ranching occupation are located on adjoining land south of the Property.

### 3. USER-PROVIDED INFORMATION

The report User is Resolution Copper Mining, LLC who provided relevant information about the Property. 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 Questionnaire and Owner Questionnaire is provided as **Appendix B**.

#### 3.1. TITLE RECORDS

The report User provided copies of title information in connection to the Property including Commitments of Title Insurance (dated September 9, 1988, and December 1, 2004, and March 25, 2005) and their 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 (**Appendix C**). Based on WestLand's review of the listed standard and specific encumbrances, none 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 activity and use limitations (AULs) for the Property.

On April 29, 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) on the Property. A search for environmental liens and AULs was completed for the parcel (Yavapai County APN 501-25-002). No records of environmental liens or AULs associated with the Property were identified in the search conducted by a title professional.

WestLand reviewed the current deed for the Property obtained through ERS. The Special Warranty Deed for the Property was executed in March 2005, and recorded the same month, conveying ownership from the Garry J. Shuster No. 3 Family Limited Partnership to Swift Current Land & Cattle LLC. The sale of land was subject to certain permitted exceptions: water rights, US reservations, encumbrances identified on retracement and remonumentation survey, rules related to forest roads, and right-of-way for Tangle Creek. The deed does not indicate that there are any environmental liens or AULs on the Property. A copy of the deed and ERS search results is provided as **Appendix D**.

#### 3.3. SPECIALIZED KNOWLEDGE

The User indicated that the only personal or institutional knowledge of environmental concerns at the Property of which Resolution Copper Mining is aware of are the presence of four 55-gallon drums of diesel No. 2, one 55- gallon drum containing residual amounts of an unknown substance, and two

automobile batteries that were remaining on the former homestead area. The User also indicated that a few square feet of stained soil were apparent near the diesel drum storage area. WestLand has determined that these features are actually located on adjoining land south of the Property. The prior Phase I ESA indicated these features were within the Property boundaries due to a surface management mapping projection discrepancy.

The User states that small quantities of petroleum products were likely used as part of normal ranch maintenance. It is also likely pesticides, herbicides, and fertilizers were used as part of normal ranching procedures.

### **3.4. COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION**

The User reported that some incidental solid waste dumping was observed on the Property, likely as a result of unauthorized recreation activities. The User stated that the small amounts of waste found on site were a housekeeping issue rather than an environmental liability, as described in the previous ESA (WestLand Resources, 2004a). 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.

### **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 April 15, 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 report 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 within the ASTM-recommended distance of the Property boundaries. There were also no unmappable (orphan) sites identified.

### **4.2. PRIOR ENVIRONMENTAL REPORTS**

A prior Phase I ESAs was completed by WestLand in March 2004. The 2004 Phase I ESA revealed no evidence of RECs in connection with the Property. However, notable findings in that report include the presence of four 55-gallon drums containing Number 2 diesel in one out building on the Property; evidence of soil staining (a few square feet) observed in the vicinity of those drums; another 55-gallon drum in a waste disposal site, north of the home site with residual amounts of an unknown substance that was not leaking; and two automobile batteries observed near the home site. However, due to an apparent, map projection difference, WestLand has determined that the boundaries of the Property evaluated for the Phase I ESA in 2004 and for this current Phase I ESA are slightly different. The only material difference between the Property's position in 2004 compared to recent maps, is the LX Bar Ranch headquarters site. Due to refined surface management mapping, it is apparent that the features identified in the 2004 report at the ranch headquarters are actually on adjoining land to the south and not at the Property. As a result of this discrepancy, the Property owner inadvertently reiterates the findings of the 2004 report regarding the presence of building structures, four drums, soil staining and batteries at the ranch headquarters, on the Property, when in fact, they are located on adjoining land immediately south of the Property. One drum identified in the 2004 report is located at the Property, that drum was observed in the 2016 site reconnaissance but did not appear to contain more than traces of fluid was not observed to be leaking.

In addition to the drums, the past Phase I ESA reports the presence of three waste disposal sites (one concentrated household waste disposal site and two other smaller areas of waste disposal), several pallets of cement blocks, as well as decaying agricultural equipment are present throughout the Property. These are not considered RECs but rather housekeeping issues. In 2016 WestLand did observe several dump sites comprised of inherit material and decaying agricultural equipment and infrastructure. However, these findings would not be considered RECs.

The prior Phase I ESA included an interview with the former Property owner, Mr. Garry J. Shuster. Mr. Schuster stated that the only known use of the Property was homesteading. Mr. Shuster indicated that associated activities included agriculture and ranching, with groundwater pumping for domestic water supply, irrigation, and stock watering purposes. This information is consistent with WestLand's research for the Property.

### **4.3. PHYSICAL SETTING**

The Property's physical setting was evaluated by WestLand to gain an 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**

The Property is located within the Central Highlands physiographic province, a transition zone between the Basin and Range and the Colorado Plateau provinces. The Property is located near the center of a broad valley with gently sloping to rolling hills known as Bloody Basin. The broadness of the valley is the geomorphological result of erosion of the surrounding mountains and accretion in ancient lakebeds and recent streambeds.

Tangle Creek bisects the Property from west-northwest to east-southeast. Streambeds within the broad portion of the valley slope gently to the east. Nearly flat floodplains adjacent to the stream beds are up to approximately 20 feet above the active channels. Upland areas display moderately sloping to rolling hills, with some steep to vertical sections where erosion has removed sedimentary (alluvial [stream bed] or lacustrine [lake bed]) deposits.

Holocene (recent) floodplains occupy about 50 percent of the eastern portion of the Property, and possibly a similar proportion of land on the west half (WestLand Resources, 2004b). The original surface of the west floodplain has been significantly altered by farming and other anthropogenic activities. The eastern floodplain has not been as extensively altered and it is still possible to identify the braided network of older abandoned channels. The more recent (possibly mid- to late-Holocene) floodplains in this area are no more than 3 feet above the active channel bottom.

On the Property, rugged terrain is present only at the ridge near the northwestern boundary. Steep eroded cliffs are present along sections of Tangle Creek. Elevations within the Property range from 2,900 feet amsl in the southeastern most corner of the Property to 3,000 feet amsl at a high point at the northwestern boundary.

#### **4.3.2. Soils**

The Arizona Land Resource Information System General Soils Map indicates that the Property encompasses the Continental-Latene-Pinaleno soil association (TS12) (ALRIS, 1975). The soils of this association are well-drained and occur on dissected old terraces and alluvial fans. The soils are deep, gravelly, medium to fine-textured, nearly level to steep soils. Continental soils make up about 30 percent, Latene soils 25 percent, Pinaleno soils 25 percent, and several minor soils make up the remaining 20 percent of the association. This soil association has fair potential for rangeland and wildlife habitat and is characterized as having slow permeability and high shrink-swell in Continental soils, slope and high gravel content in Pinaleno soils, and high lime content in the substrata of Latene soils (Hendricks, 1985).

#### **4.3.3. Geology**

The surface geology of the entire Property is mapped as Pliocene to Middle Miocene Deposits (Tsy) (Arizona Geologic Survey, 2016; Richard, Reynolds, Spencer, & Pearthree, 2000). These deposits are moderately to strongly consolidated conglomerate and sandstone put down in basins during and after late Tertiary faulting but also includes some mudstone, limestone, gypsum, and siltstone. They commonly form ridges and high rounded hills in modern basins, and locally form bluffs. Based on Westland's site reconnaissance, no bedrock outcrops are displayed on the Property.

Several faults are located in the vicinity of the Property (Arizona Geologic Survey, 2016). The closest fault originates near Juniper Tank and runs toward the southwest near Bear Tank where it terminates. More extensive faults in the vicinity run from southeast to northwest with the closest point occurring near Frog Springs west of the Property and along the Verde River located east of the Property.

#### **4.3.4. Hydrology**

The Property lies in the Verde River watershed and is located within Bloody Basin. Tangle Creek is a substantial tributary to the Verde River located downstream of the Property. The state-wide map of the perennial streams of Arizona compiled by Brown et al. (1978) identifies portions of Tangle Creek as a perennial stream. However, at the scale provided, it is not possible to determine if the Property is mapped within an ephemeral or perennial reach. It is likely that perennial reaches are or were present both upstream and downstream of the Property, where near-surface bedrock forces groundwater to the surface (WestLand Resources, 2004b). Tangle Creek is presumed to be spatially intermittent to perennial in other reaches because of its designated use for warm water aquatic and wildlife use (18

Arizona Administrative Code [A.A.C.] 11). Tangle Creek has not been identified by ADEQ as impaired for any designated uses by that agency's surface water monitoring (Arizona Department of Environmental Quality, 2012/2014, 2015). There are no stream gauges along Tangle Creek.

The Tangle Creek channel within the Property was dry during site visits completed by WestLand in 2004 and 2016. The channel bottom was generally sandy. The boulders in and along the south edge of the channel do not have black watermarks, suggesting the surface flow in this reach is rare and very brief. Tangle Creek's channel bottom is bedrock about one mile east (downstream) of the Property, below the confluence with Roundtree Canyon (about 1/4 mile east of the Property boundary).

The National Wetlands Inventory map identifies no wetlands within these parcels (U.S. Fish and Wildlife Service, 2016). Based on observations and data review by WestLand, mesoriparian and xeroriparian habitat is present along the stream channels of Tangle Creek.

Most of the area has been mapped by the Federal Emergency Management Agency as Zone X, (minimal flood hazard), with portions along the stream channel denoted as Zone A (1-percent annual chance flood hazard of 100-year flood), and Zone D (undetermined flood hazard) is found along the western boundary of the Property (FEMA 2013).

#### 4.3.5. Hydrogeology

The Property is located in the Verde Canyon sub-basin within the larger Verde River groundwater basin. The Arizona Department of Water Resources (ADWR) reports this basin covers approximately 400 square mi (1,036 square km) within Gila County. Groundwater recharge originates primarily along the crest of the Mogollon Rim, where precipitation and snowmelt percolate through permeable volcanic, limestone, or sandstone units. Spring discharge and stream base flow appear to be the largest component of aquifer outflow (ADWR 2015b).

The ADWR Well Registry spatial database was queried to review available data for wells within the boundaries of the Property. Based on our inquiry of the ADWR geospatial map (ADWR 2013 and 2015a), there are no registered wells mapped at the Property (ADWR 2015a). The ADWR database search was expanded to search within a 1-mi (1.6-km) radius of the Property and two registered wells were identified (**Figure 3**). WestLand reviewed the database records and imaged records for these well sites using their ADWR identification numbers (nos. 55-600869 and 55-623560). Well No. 55-600869 is registered to Tonto National Forest and Well No. 55-623560 is registered to the Eunice B. Veazey Trust. These wells are reportedly used for irrigation, stockwater, and domestic purposes. There was no depth to groundwater data provided in connection with these wells.

Two wells were observed at the Property during the site reconnaissance. One hand dug well approximately 15 feet by 15 feet was observed along Tangle Creek (**Appendix A**, Photos 4-6). The

well is likely to have been sited intentionally in an area where groundwater was or is unusually close to the surface. A larger, second hand dug well was observed on the Property, closer to structures on adjoining land to the south (**Appendix A**, Photo 14). The opening of this well was fenced off with posts and wire.

#### **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 1929, 1933, 1967, 1981, 2004, and 2014. WestLand added the Property boundary to the topographic maps provided by ERS (**Appendix F**). USGS topographic map coverage for the Property is provided on the Turret Peak 30-minute quadrangles at a 1:125,000 scale, the Payson 30-minute by 60-minute quadrangles at a 1:100,000 scale, and the Bloody Basin 7.5-minute quadrangles at a 1:24,000 scale. 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 1929 and 1933 Turret Peak 30-minute quadrangles (1:125,000 scale) depict the Property as undeveloped land. Natural topography and drainages appear to be similar to current conditions. One trail enters the Property from the southwest corner, breaks into two trails in the center of the western half of the Property, and exits the Property near the center north and the southeast corner as two separate trails. The LX Bar Ranch is depicted near the southern boundary of the Property. No other development is shown on the Property.

The 1967 Bloody Basin 7.5-minute quadrangle (1:24,000 scale) depicts the Property as undeveloped land other than one unimproved road and two power transmission lines. A fenceline appears to partially outline the Property and surrounding property. The trails shown in the 1929 and 1933 maps are no longer shown. The new road travels from the southwest of the Property through the center and exits the Property near the northeast corner. This unimproved road provides access from an improved road to the LX Bar Ranch and to stock tanks on adjoining land. The power transmission lines bisect the Property from north to south. Several unimproved roads, tanks and springs surround the Property. Tangle Creek Cabin is depicted southeast of the Property.

The 1981 Payson 30-minute by 60-minute quadrangle (1:100,000 scale) generally depicts the Property and surrounding area in the same conditions as the 1967 map.

The 2004 Bloody Basin 7.5-minute quadrangle (1:24,000 scale) depicts more detailed land information than the previous maps. This map identifies private land as separate polygons but the outlines for private land are not precise due to old surface management map sourcing. This map appears to have two polygons representing the Property; however, the more current polygon location is shown in blue. The road at the Property is identified as a four-wheel drive/unimproved road. The power transmission lines are still shown traversing the Property. The LX Bar Ranch is identified along the southern boundary of the Property and appears to be associated with three structures on adjoining property. Additional roads and trails including FR2007, which crosses the Property and FR269, which roughly parallels the southern boundary are shown surrounding the Property. Developed features on the surrounding land appear to be mainly limited to roads and water tanks. The Tangle Creek Cabin is now labelled Tangle Creek Admin Site.

The 2014 Bloody Basin 7.5-minute quadrangle (1:24,000 scale) provides less detail than the prior maps. Developed features shown in this map are limited to the road bisecting the Property and surrounding improved roads and tanks.

The topographic maps of the Property and vicinity indicate that the Property has had limited development and use since at least 1929. Historical use of the Property appears to have been limited to roads, a cross county transmission line, and association with the LX Bar for homesteading and agriculture. It would be practical for a homesteader to build a house and corral on the bluff above the streambed and floodplain, where fields would be developed. Structures and presumably, the ranch headquarters for LX Bar were located on adjoining land to the south. Associated improvements located at the Property include roads, trails, a small building, wells, and agricultural fields.

#### **4.4.2. Historical Aerial Photographs**

WestLand obtained eight historical aerial photographs depicting the Property and vicinity dating from 1953, 1965, 1978, 1980, 1992, 2003, 2010, and 2015. WestLand added the Property boundary to the aerial photographs (**Appendix G**). WestLand reviewed the photographs at a scale of 1"=1000' 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.

The 1953 aerial photograph shows the road at the Property as depicted in the 1967 quadrangle described above. Cleared areas on the Property, likely used for agriculture, are also visible on both sides of Tangle Creek. Washes and associated vegetation is apparent on the aerial photograph. Roads

adjacent to the Property are also visible. Although the LX Bar Ranch facilities are not visible, this is likely due to the resolution of the photograph.

The 1965 aerial photograph shows the same road and cleared areas, as well as the power transmission lines that bisect the Property and numerous stock tanks on land surrounding the Property. As in the 1953 photograph, roads adjacent to the Property are also visible and the LX Bar Ranch facilities are not visible, likely as a result of the resolution of the photograph.

The 1978 and 1980 aerial photographs show less detail than the prior photograph, but the roads and power transmission lines on the Property, and the roads and stock tanks surrounding the Property, are still visible.

The 1992, 2003, 2010, and 2015 aerial photographs show the roads and stock tanks, as depicted in the quadrangle maps. The formerly cleared areas at the Property become less defined as the aerials become more recent.

The aerial photographs of the Property and vicinity indicate that the Property has had limited development and use since at least 1953. The aerials indicate that land use at the Property and in the surrounding area was for homesteading and agriculture; this is consistent with site reconnaissance and other historical information gathered by WestLand.

#### **4.4.3. Property Tax Files**

WestLand obtained the property tax maps for the Property and adjoining areas from the Yavapai County Assessor. The Property map and assessor parcel details, as well as the parcel details are included in **Appendix H**. The map and details indicate that the only development on the Property was a 450 square foot, “farm utility building” constructed in 1958. The Property is now considered to be vacant. The presence of a small building associated with the LX Bar Ranch is not indicative of any RECs on the Property.

#### **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 cultural resource inventory report for the Property that includes archaeological research and results of prior records searches (WestLand 2016). The historical map review for the cultural resource inventory report revealed construction and ranching activities took place in the vicinity of the Property throughout the twentieth century. Homestead Entry Survey No. 416 documented the creation of the land patent to Mr. Alton Gardner in 1915 (Turley 1918). This survey records the homestead prior to the official issuance of the land patent in 1926, indicating the Property was in use for several years before the land patent was filed. The Homestead Entry survey was conducted in December 1915, but not accepted by the GLO until April 1918; no structures or improvements to the Property are depicted on the survey plat other than a fence, a cleared area, and a trail labeled “to Camp Verde” that extends to the north. The 1929 USGS map depicts this area as the LX Bar Ranch for the first time (Carson and Nessler 1929). A 1954 map depicts a transmission line passing through the Property (U.S. Army Topographic Command [BEEE], 1954). The transmission line was not present on the 1933 and earlier maps of Property. Transmission lines do not indicate RECs.

According to the cultural survey report (WestLand 2016), the majority of the previous cultural surveys in the vicinity of the Property were conducted in preparation of a series of mostly ranching related improvements, including the excavation of a materials pit, the construction of cattle tanks and drainage spillway/culvert/pipeline repairs, fencing and corral improvements, and water catchments built by the Arizona Department of Game and Fish.

## 5. SITE RECONNAISSANCE

On March 28 through March 31, 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**. The approximate photograph locations are shown in **Figure 2**.

### 5.1. METHODOLOGY AND LIMITING CONDITIONS

Prior to conducting the site reconnaissance, WestLand reviewed current and historical aerial photographs and topographic maps (as 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 records review of the Property and surrounding properties. The Property is accessible from FR 24 from the south or FR 269 (Bloody Basin Road) from the west.

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 was reportedly homesteaded in the early 1890s and the primary use at that time was for agricultural purposes (cattle grazing and farming). The majority of the building structures associated with the ranch headquarters were located south of the Property boundary. Based on assessor records, one 450-foot building was located on the Property; this was likely an outbuilding, but is no longer present. Building materials (**Appendix A**, Photo 9) and other inert scattered debris associated with the homesteading and/or agricultural uses were observed on the Property (**Appendix A**, Photo 9-12). There has been no recent use of the Property by the current owner, but it is expected that recreational activities (e.g., hunting) on adjacent public lands have continued onto the private property (**Appendix A**, Photo 2).

### **5.3. EXTERIOR OBSERVATIONS**

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

As described in Section 5.3.5 (Drums), WestLand observed an empty metal barrel that could have been used to store petroleum products in the past at the northern boundary of the Property but no soil staining was noted near the drum (**Appendix A**, Photo 1). A metal paint can that contained dried paint in small quantities was also observed on adjoining land to the north of the Property (**Appendix A**, Photo 2). No other 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**

One partially buried 55-gallon drum was observed at the Property. The report User indicated that she was aware of the presence of four 55-gallon drums of diesel No. 2 and one 55-gallon drum containing residual amounts of an unknown substance. The drum that was observed was likely the single drum described by the User and the four 55-gallon drums described by the User were not observed on the Property. It is likely those four drums were present on adjoining land south of the Property in 2004.

#### **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**

Two wells were observed at the Property during the site reconnaissance. One hand dug well approximately 15 foot by 15 foot was observed along Tangle Creek (**Appendix A**, Photos 4-6). The well is likely to have been sited intentionally in an area where groundwater was or is unusually close to the surface. A larger, second hand dug well was observed on the Property, closer to structures on adjoining land to the south (**Appendix A**, Photo 14). This opening was fenced off with posts and wire.

### **5.3.11. Stained Soil or Pavement**

No stained soil or pavement was noted at the Property.

### **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.

Scattered trash and debris were found in a few locations including the shell of a milk truck (**Appendix A**, Photo 10), and a collection of cans (**Appendix A**, Photo 11); however, all solid waste discarded at the Property appears to be comprised of inert materials.

#### **5.3.14. Stockpiles**

A small gravel stockpile was observed at the Property, the material in the stockpile appears to be inert and furthermore, there was no apparent indication of contamination around the stockpile (**Appendix A**, Photo 8).

#### **5.3.15. 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 (other than the wells) were observed at the Property.

## 6. INTERVIEWS

### 6.1. INTERVIEWS WITH OWNER

On March 10, 2016, Ms. Casey McKeon of Resolution Copper Mining LLC completed the User questionnaire and a project-specific owner questionnaire generated by WestLand. Ms. McKeon indicated that to her knowledge, the property has been vacant since the 1990s and not developed. Ms. McKeon indicated that the Property was homesteaded and used for agriculture and cattle grazing until the 1990s. She reports that 20 acres of the Property was irrigated in the past. She indicated the Property is currently zoned. RCU-2A (residential, rural) in Yavapai County.

An old tack room and barbeque were reported by Ms. McKeon as present at the Property. She also reported there were four 55-gallon drums of diesel No. 2, one 55-gallon drum containing residual amounts of an unknown substance, and two automobile batteries were remaining on former homestead area. She reported that small quantities of petroleum products were likely used as part of normal ranch maintenance. Based on WestLand's review of the prior Phase I ESA and historic mapping, it is likely the main facilities associated with the ranch headquarters were actually on land adjoining the Property to the south.

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 beyond the minor soil staining noted to be a few square feet in size near the former diesel drum storage area identified by the prior Phase I ESA (on adjoining land). Ms. McKeon stated it is likely pesticides, herbicides, and fertilizers were used as part of normal ranching procedures.

Ms. McKeon reported that there was a dug well near headquarters site and ADWR files from April 1982 indicate two wells are present at the Property at unknown locations. However, the 1982 ADWR records were not provided to WestLand. We suspect that these two recorded wells are the hand dug wells that we observed during the site visit; they were likely used for domestic and agricultural purposes only.

She is not aware of any information potentially pointing to a REC for the Property. Responses to specific inquiries are included in **Appendix B**.

### 6.2. INTERVIEWS WITH OCCUPANTS

There are no current occupants of the Property. See Interview with Owner (above).

### **6.3. INTERVIEWS WITH LOCAL GOVERNMENT OFFICIALS**

WestLand interviewed representatives from the Mayer Fire Department ((928) 632-9534), Black Canyon Fire Department ((623) 374-5512), and El Mirage Fire Department ((623-500-3000) in May 2016 by phone 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. Representatives at all of the departments responded that the department has no knowledge of any such spills or storage at the Property or on land in the immediate vicinity. Representatives also stated that their respective departments would likely not respond to the Property based on their district boundaries.

WestLand also inquired to the Tonto National Forest, Cave Creek Ranger District (the District) on June 14, 2016, by telephone and e-mail (ritahunter@fs.fed.us). However, as of the date of this report, WestLand has not received information as to whether or not the District has responded to the Property or adjoining properties with regard to fuel/chemical spills or if they were aware of any chemical or petroleum product storage at the Property.

### **6.4. INTERVIEWS WITH OTHERS**

The prior Phase I ESA (WestLand 2004) included an interview with the former Property owner, Mr. Garry J. Shuster. In 2004, Mr. Schuster stated that the only known use of the Property was for homesteading. Mr. Shuster indicated that associated activities included agriculture and ranching, with groundwater pumping for domestic water supply, irrigation, and stock watering purposes. This information is consistent with WestLand's research for 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 April 29, 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 April 15, 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.
- A prior Phase I ESAs was completed by WestLand in March 2004. The 2004 Phase I ESA revealed no evidence of RECs in connection with the Property. However, notable findings in that report include the presence of four 55-gallon drums containing Number 2 diesel in one out building on the Property; evidence of soil staining (a few square feet) observed in the vicinity of those drums; another 55-gallon drum in a waste disposal site, north of the home site with residual amounts of an unknown substance that was not leaking; and two automobile batteries. However, due to an apparent, map projection difference, WestLand has determined that the boundaries of the Property evaluated for the Phase I ESA in 2004 and for this current Phase I ESA are slightly different. The only material difference between the Property's position in 2004 compared to recent maps, is the LX Bar Ranch headquarters site. Due to refined surface management mapping, it is apparent that the features identified in the 2004 report at the ranch headquarters are actually on adjoining land to the south and not at the Property. As a result of this discrepancy, the Property owner inadvertently reiterates the findings of the 2004 report regarding the presence of building structures, four drums, soil staining and batteries at the ranch headquarters, on the Property, when in fact, they are located on adjoining land immediately south of the Property. One drum identified in the 2004 report is located at the Property, that drum was observed in the 2016 site reconnaissance but did not appear to contain more than traces of fluid was not observed to be leaking.

The prior Phase I ESA reports the presence of three waste disposal sites (one concentrated household waste disposal site and two other smaller areas of waste disposal), several pallets of cement blocks, as well as decaying agricultural equipment are present throughout the Property.

Again, these are not considered RECs but rather housekeeping issues. In 2016 WestLand did observe several dump sites comprised of inherit material and decaying agricultural equipment and infrastructure. However, these findings are not considered RECs.

- The Property and adjoining land (including the larger LX Bar Ranch) was reportedly homesteaded, and used for livestock grazing and farming from the 1890s until the 1990s. It would be practical for a homesteader to build a house and corral on the bluff above the streambed and floodplain, where fields would be developed. The ranch headquarters for LX Bar were located on adjoining land to the south. Associated improvements located at the Property include roads, trails, wells, and agricultural fields. Based on county assessor records, a “farm utility building” was constructed at the Property in 1958 though it is no longer present at the Property.
- There are two hand-dug wells are present at the Property. WestLand identified these wells during the site reconnaissance. The owner indicates there are ADWR files from April 1982 referring to these two wells; however, WestLand did not identify any well records for wells at the Property though our ADWR inquiry. There are two ADWR registered wells located within one mile of the Property. These wells are on land within one mile of the Property and are registered for use for irrigation, stockwater and domestic use. It is not suspected that these wells were associated with industrial activity, waste water disposal or as monitoring wells for any known contamination in the area.
- On March 28 through March 31, 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. The Property is generally undeveloped open space with evidence of former agricultural and ranching use. Building materials and other inert, scattered debris likely associated with the homesteading and/or agricultural uses were found on the Property. There is no evidence of intense recreational use of the site, though a shot up dried paint container suggests dispersed hunting has likely occurred.
- 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 indicated that the Property was homesteaded and used for agriculture and cattle grazing until the 1990s. Ms. McKeon stated it is also likely pesticides, herbicides, and fertilizers were used as part of normal ranching procedures. 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.

The User reports it is possible that lubricants and fuel could have been spilled on the Property during the years in which the Property was used for agricultural purposes. However, we concur with prior assessments that these releases, if they occurred, would likely be of a *de minimis* nature but observed no evidence of such releases at the Property.

Additionally, there was no evidence of corrals or dipping vats to suggest the use of parasitic prevention or treatment application to cattle at the Property.

Any releases of hazardous material or petroleum products in connection to recreational activities at the Property and in the immediate vicinity of the Property (overland vehicle use, hiking, fishing and camping) if they occurred, would likely be of a *de minimis* nature (but were not readily observed at the Property) and are not suspected to have resulted in a REC.

The User reported that some incidental solid waste dumping was observed on the Property, likely as a result of unauthorized recreation activities. The User stated that the small amounts of waste found on site were a housekeeping issue rather than an environmental liability, as described in the previous ESA (WestLand Resources, 2004a). No other commonly known or reasonably ascertainable information relevant to potential RECs was provided by the User.

- WestLand did not observe during the site reconnaissance, 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 ranching history of the Property and surrounding land, it is possible that agricultural chemicals were stored or used on the Property. However, if past farmers applied pesticides at the Property, potential impacts include environmentally persistent chlorinated pesticides and arsenic (used as a defoliant). However, given the intended use of the Property will not include residential or commercial development, soil testing is not recommended at this time and this potential storage or use is not considered at REC for the Property, given the intended use.

WestLand did not observe any septic systems or direct evidence of such a system on the Property. A septic system may have been located at the former ranch headquarters on adjoining land. The location of the 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 definitively. 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 representatives from the Mayer Fire Department, Black Canyon Fire Department, and El Mirage Fire Department to inquire whether or not they have responded to the Property or adjoining properties with regard to fuel/chemical spills or if they were aware of any chemical or petroleum product storage at the Property. Representatives at all of the

departments responded that the department has no knowledge of any such spills or storage at the Property or on land in the immediate vicinity. Representatives also responded that their respective departments would not respond to the Property based on their district boundaries.

The prior Phase I ESA (WestLand 2004) included an interview with the former Property owner, Mr. Garry J. Shuster. In 2004, Mr. Schuster stated that the only known use of the Property was for homesteading. Mr. Shuster indicated that associated activities included agriculture and ranching, with groundwater pumping for domestic water supply, irrigation, and stock watering purposes. This information is consistent with WestLand's research for 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, controlled recognized environmental conditions, or *de minimis* 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 historic record searches likely to provide relevant information in an urban setting. WestLand did review cultural resources data available for the Property. The only data failures or limitation potentially affecting conclusions regarding the identification of RECs for the Property was the lack of response from the Cave Creek Ranger District regarding whether or not they have responded to the Property or adjoining properties for fuel/chemical spills or if they were aware of any chemical or petroleum product storage at 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.

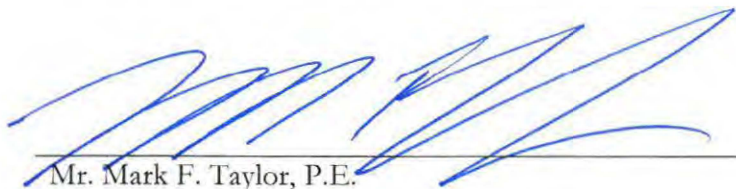
## **10. ADDITIONAL SERVICES**

No additional services beyond the standard ASTM scope were considered as part of this assessment.

## II. QUALIFICATIONS AND SIGNATURE OF ENVIRONMENTAL PROFESSIONALS

Mr. Mark F. Taylor, P.E. believes that, to the best of his professional knowledge, he meets the definition of “environmental professional” as defined in §312.10 of 40 CFR 312. Mr. Taylor possesses the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject Property. He has developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Mr. Taylor is the leading environmental professional assigned to perform project oversight for this ESA. Mr. Jeff Charest conducted the site reconnaissance under the direction of Mr. Taylor. Ms. Diana Sandoval and Ms. Sarah Richman conducted the interviews, regulatory inquiries, and historical research. Mr. Chris Rife reviewed the findings in this report. Their work was conducted under the supervision of the above-named environmental professional. Mr. Taylor reviewed, interpreted, and declared the information included in this report as complete. Résumés for the key individuals participating in the preparation of this report are provided in **Appendix I**.

  
\_\_\_\_\_  
Mr. Mark F. Taylor, P.E.

10/4/16  
\_\_\_\_\_  
Date

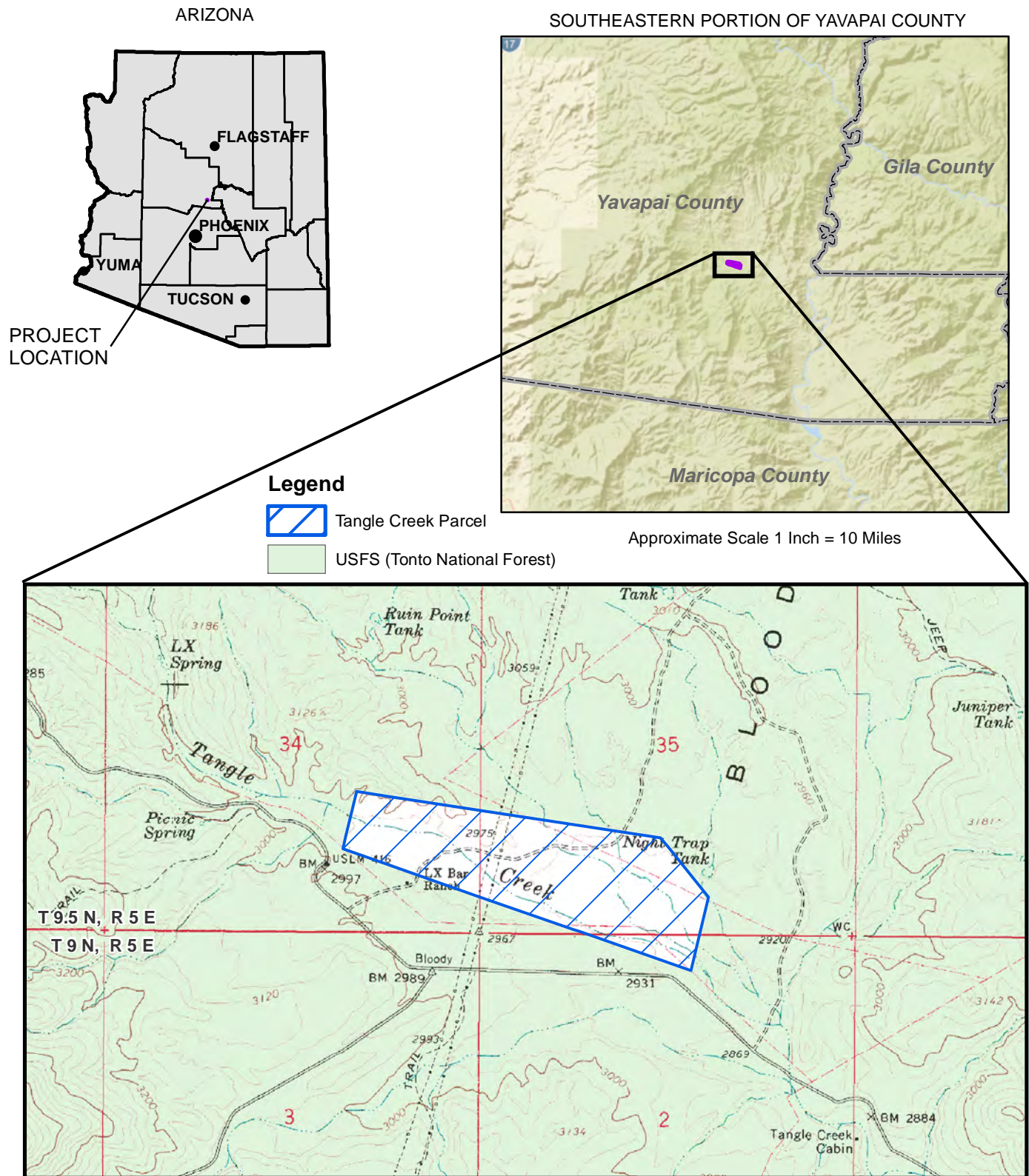
## 12. REFERENCES

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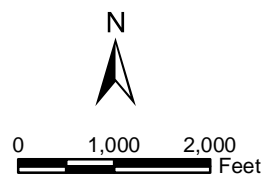
## FIGURES

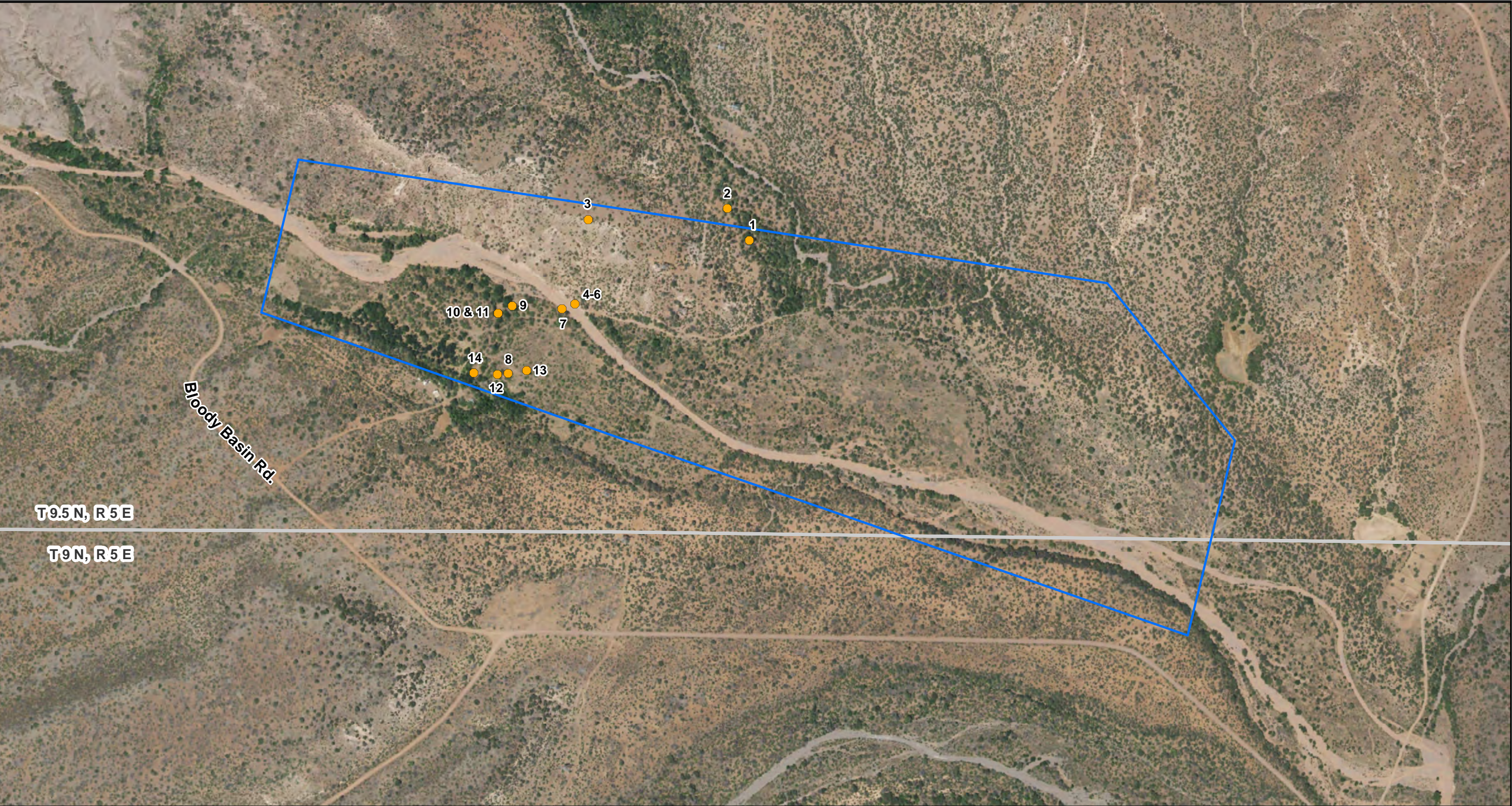


## RESOLUTION COPPER Phase I ESA for Tangle Creek

VICINITY MAP

Figure 1



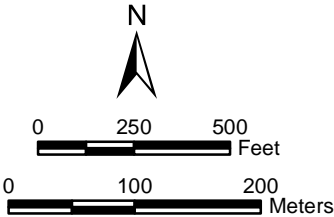


Tangle Creek:  
T9.5N, R5E, Portion of Sections 34 and 35,  
T9N, R5E, Portion of Section 2,  
Yavapai County, Arizona.  
Image Source: 2015 USDA NAIP Orthophoto.  
Note: Photo 15 location is not shown because this overview  
photo was taken from a location off of the Property.

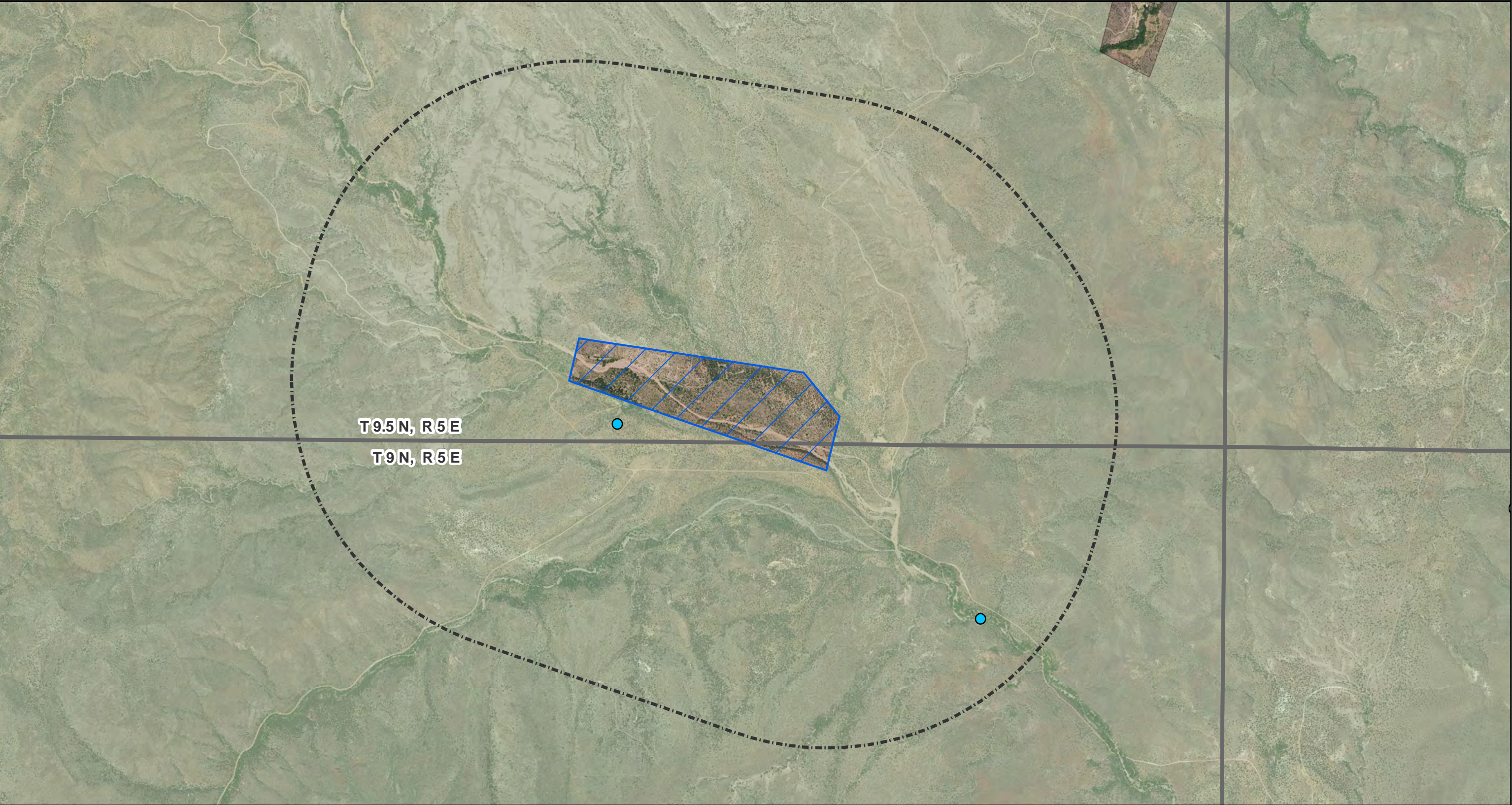


**Legend**

- Photo Location
- Tangle Creek Parcel



**RESOLUTION COPPER**  
**Phase I ESA for Tangle Creek**  
SITE RECONNAISSANCE MAP  
WITH PHOTO LOCATIONS  
Figure 2



Tangle Creek:  
T9.5N, R5E, Portion of Sections 34 and 35,  
T9N, R5E, Portion of Section 2,  
Yavapai County, Arizona.  
Image Source: 2015 USDA NAIP Orthophoto  
Data Source: BLM Surface Management 2012.  
ADWR Wells [DOWNLOADED FROM ADWR WEBSITE 4/2/2013  
<http://www.azwater.gov/azdwr/gis/>



**Legend**

- ADWR Wells 55
- ADWR Well Locations Within a One Mile Buffer of Parcel
- Tangle Creek Parcel
- USFS (Tonto National Forest)

**Scale**

N

0 900 1,800 Feet

0 300 600 Meters

**RESOLUTION COPPER**  
Phase I ESA for Tangle Creek

AERIAL OVERVIEW WITH  
ADWR WELL LOCATIONS

Figure 3

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## **APPENDIX A**

### **SITE PHOTOGRAPHS**



**Photo 1.** Empty, rusted 55-gallon drum; partially buried



**Photo 2.** Shot up paint can with dried paint inside on adjoining land



**Photo 3.** Property overview and power line in the distance



**Photo 4.** Rock-lined well (view from top of channel looking down)



**Photo 5.** Rock-lined well (view inside well)



**Photo 7.** Concrete along wash bottom



**Photo 6.** Rock-lined well (view from grade in wash)



**Photo 8.** Gravel dump



**Photo 9.** Corrugated metal debris



**Photo 11.** Scattered waste comprised of aluminum and glass



**Photo 10.** Milk truck shell



**Photo 12.** Agricultural equipment



**Photo 13.** Structure in the background; on adjoining property to the south



**Photo 14.** Wellsite at the southern boundary at the Property



**Photo 15.** Overview of Bloody Basin

**No Photo**

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## **APPENDIX B**

### **USER AND OWNER QUESTIONNAIRES**

---

ASTM E 1527-13 & 2247-08

USER QUESTIONNAIRE

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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**

**(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*? **The property was reportedly homesteaded in the early 1890s and primary use was agricultural (winter cattle grazing and farming). Cattle grazing ceased in the 1990s. Currently land is not actively used for any purpose.**

(b.) Do you know of specific chemicals that are present or once were present at the *property*? **In 2004, four 55-gallon drums of diesel No. 2, one 55- gallon drum containing residual amounts of an unknown substance, and two automobile batteries were remaining in an outbuilding at former homestead area (recently determined to be on adjoining land immediately south of the Property). Another drum was observed in 2004 at a waste disposal site north of the homestead area, on the Property.**

(c.) Do you know of spills or other chemical releases that have taken place at the *property*? A few square feet of stained soil were apparent in 2004 near the diesel drum storage area at the ranch headquarters- on adjoining land south of the Property. Small quantities of petroleum products were likely used as part of normal ranch maintenance. It is also likely pesticides, herbicides, and fertilizers were used as part of normal ranching procedures.

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

**(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 obvious indicators of contamination on property. Some incidental solid waste dumping was observed on property, likely as a result of unauthorized recreation activities. The small amounts of waste found on site were a housekeeping issue rather than an environmental liability.

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? No
- (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:** 03/10/2016, updated 9/27/16

**PROPERTY: Tangle 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: Tangle Creek - Township 9.5 North, Range 5 East, in portions of Sections 34 and 35 and Township 9 North, Range 5 East, in a portion of Section 2 in Yavapai County, Arizona. Homestead Entry Survey No. 416.

Interview Medium (underline one): in person, by telephone, in writing Date: 03/10/2016, revised 9/27/16

Interviewee Relationship to the *property* (underline one): past owner, present owner, operator/manager, tenant, occupant, other. (Ms. Casey McKeon of Resolution Copper Mining LLC)

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

(1). Please describe the current uses of the *property*, if known.

The land is a vacant national forest inholding.

(2). Please describe the past/historic use(s) of the *property*, if known.

The property was reportedly homesteaded in the early 1890s and primary use was agricultural (winter cattle grazing and farming). Cattle grazing ceased in the 1990s. Approximately 20 acres of the property was irrigated in the past. Currently land is not actively used for any purpose. An old tack room and barbeque still stands but buildings have been demolished.

(3). Name the current and any past owners or occupants of the *property*, if known.

Current owner is Swift Current Land & Cattle, LLC. Shuster No. 3 Family Limited Partnership owned the property for over 20 years prior to the 2005 sale to Swift.

(4). Please describe the past and/or current uses of adjoining properties, if known.

The property is an inholding of the Forest Service.

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

Agricultural uses historically, serving as ranch headquarters. It has an RCU-2A zoning in Yavapai County.

(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 x No \_\_\_\_\_ Unknown \_\_\_\_\_ (In 2004, four 55-gallon drums of diesel No. 2, one 55- gallon drum containing residual amounts of an unknown substance, and two automobile batteries were remaining on former homestead area [on adjoining land to the south]). Another drum was observed north of the ranch area, at the Property.

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

*Environmental Site Assessment Owner Questionnaire*

Page 2/2

Yes ☒ No ☐ Unknown ☐ A few square feet of stained soil were apparent in 2004 near the diesel drum storage area, south of the Property. No stains were noted near the empty drum at the Property in 2004. Small quantities of petroleum products were likely used as part of normal ranch maintenance. It is also likely pesticides, herbicides, and fertilizers were used as part of normal ranching procedures.

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

Yes ☐ No ☒ Unknown ☐

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

Yes ☐ No ☒ 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 ☐

(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 ☐

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

Yes ☐ No ☒ 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 ☒ Unknown ☐

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

Yes ☐ No ☐ Unknown ☒

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

Yes ☐ No ☐ Unknown ☒

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

Yes ☒ No ☐ Unknown ☐ dug well near headquarters site, ADWR files April 1982 indicate 2 wells, unknown locations

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

Yes ☐ No ☐ Unknown ☒

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

Yes ☐ No ☐ 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 ☒

(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 x \_\_\_\_\_ Unknown \_\_\_\_\_

(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 \_\_\_\_\_ As part of the appraisal from Headquarters West, the information was reviewed for use here.

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## **APPENDIX C**

### **TITLE AND ENCUMBRANCES DOCUMENTS**

# CHICAGO TITLE INSURANCE COMPANY

## COMMITMENT FOR TITLE INSURANCE

### SCHEDULE A

Reference No.: 20004184-BEB

1. Effective Date: December 1, 2004 at 7:30 A.M. Escrow/Title No.: 37040063-  
Title Officer: Mark Cheney
2. ALTA Form Policy or Policies to be Issued: 1<sup>st</sup> amendment/amf
  - A. Owner's Policy  
Extended Owner's Policy Amount: \$ 700,000.00  
Proposed Insured:  
SWIFT CURRENT LAND & CATTLE COMPANY, L.L.C., an Arizona limited liability company
  - B. Loan Policy  
None Amount: \$  
Proposed Insured:
  - C. Loan Policy  
None Amount: \$  
Proposed Insured:
3. The Estate or Interest in the land described or referred to in this Commitment, and covered herein is:  
FEE SIMPLE
4. Title to the Estate or Interest is at the effective date hereby Vested in:  
GARRY J. SHUSTER NO. 3 FAMILY LIMITED PARTNERSHIP, an Arizona limited partnership
5. The land referred to in this Commitment is situated in the County of Yavapai, State of Arizona, and is described as follows:  
See Exhibit A attached hereto and made a part hereof.

# CHICAGO TITLE INSURANCE COMPANY

## SCHEDULE B — SECTION 1

### REQUIREMENTS

Escrow/Title No.: 37040063-

The following are the requirements to be complied with:

1. Payment to or for the account of the Grantors or Mortgagors of the full consideration for the estate to be insured.
2. Instruments in insurable form which must be executed, delivered and duly filed for record:

#### SPECIAL REQUIREMENTS:

3. Furnish plat of survey of the subject property by a Registered Land Surveyor which meets the minimum standard detail requirements for ALTA/ACSM Land Title Surveys, adopted by the American Congress on Surveying and mapping (ACSM) in 1999. Chicago Title Insurance company requires that said survey includes at least Numbers 1, 6, 8, 10, 11 (a) and (b), 14, 15 and 16 of Table A, Optional Survey Responsibilities and Specifications. It is recommended that the surveyor contact the Company prior to starting the survey if any questions exist regarding Company requirements for said survey.

Note: If an ALTA 3.1 Zoning Endorsement is required, Items 7a, 7b and 7c of Table A will also be required. If "parking" is to be added to the endorsement, the number and type of parking spaces must be shown on the survey. Property use information must also be provided to Chicago Title Insurance Company

4. Provide Chicago Title Insurance Company with a current copy of the limited partnership agreement of GARRY J. SHUSTER NO. 3 FAMILY LIMITED PARTNERSHIP, an Arizona limited partnership, and all amendments thereto.
5. Certification by GARRY J. SHUSTER, general partner of GARRY J. SHUSTER NO. 3 FAMILY LIMITED PARTNERSHIP, an Arizona limited partnership, that there have been no amendments other than those disclosed to Chicago Title Insurance Company on \_\_\_\_\_, and further certification that said partnership has not been terminated.
6. Provide Chicago Title Insurance Company with a copy, filed with the Arizona corporation commission, of the Articles of Organization, and copies of any management agreements or operating agreements and a current list of all members for SWIFT CURRENT LAND & CATTLE COMPANY, L.L.C., an Arizona limited liability company.
7. Proper showing as to the parties in possession, or parties with a right of possession to the premises being insured herein, including either copies of all unrecorded lease, a current rent roll or an affidavit by the proper parties as to the current tenants, whether by lease or month to month tenancies, and certification that the rights disclosed are all the rights affecting the property.

Note: If no unrecorded leases or month to month tenancies exist, certification to that fact will be required.

8. Record Deed from Vestee to Proposed Insured Owner.

Note: 2004 taxes: All paid; Parcel No. 501-25-002-4; Total Tax: (See Tax Inquiry sheets.)  
(Please contact the Treasurer's Office at 928-771-3233 to verify any amounts due prior to remittance.)

# CHICAGO TITLE INSURANCE COMPANY

## SCHEDULE B — SECTION 1

### REQUIREMENTS — (CONTINUED)

Escrow/Title No.: 37040063-

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

- (a) Print must be ten point type or larger;
- (b) Margins of at least one-half inch along all sides, including top and bottom, except the top of the first page which must be at least two inches for recording data and return address information.  
**The margin must be clear of all information including but not limited to, notaries, signatures, and page numbers.**
- (c) Each instrument shall be no larger than 8-1/2 inches in width and 14 inches in length.

(In addition to the above, since our Recorder's Office is scanning documents, they will not accept faxed documents, even with original signatures and notary acknowledgments.)

NOTE: Arizona notaries who have renewed their commission after July 20, 1996 **MUST** use an ink seal, embossed seals will no longer be accepted subsequent to such renewal.

# CHICAGO TITLE INSURANCE COMPANY

## SCHEDULE B — SECTION 2

Escrow/Title No.: 37040063-

Schedule B of the 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:

1. 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 the Commitment.
2. Any American Land Title Association Policy issued pursuant hereto (except extended coverage) will contain under Schedule B the standard exceptions set forth at the inside cover hereof.

### SPECIAL EXCEPTIONS:

1. Taxes for the full year 2004. First half due on October 1, delinquent on November 1, 2004. Second Half due on March 1, delinquent on May 1, 2005.
2. Water rights, claims or title to water, whether or not of public record.
3. Reservations contained in the patent from the United States of America or the state.
4. Any rights, easements, interests or claims which may exist by reason of or be reflected by the facts shown on the Retracement and Remonumentation Survey recorded in Book 12, Page 20 of Maps.
5. Certificate of Water Right recorded in Book 2203, page 629, and Revised in Book 2399, page 269 of Official Records. (Shown for information purposes only, as Water Rights are not insured herein.)
6. Any rules or regulations prescribed by the Secretary of Agriculture concerning the use of National Forest Service roadway system which provides access to the within described property.
7. Right of way for Tangle Creek.
8. Rights of lessees under unrecorded leases.
9. Any rights, interests or claims which may exist by reason of the following matters disclosed by ALTA/ASCM Survey Job No.      performed by :
  - a. Rights of parties in possession of land lying      of a      which appears to encroach over      approximately
  - b. Encroachment of a      onto      .
  - c. Right of way for      as disclosed by      .
  - d. Rights of parties in possession or using the land lying      of a      which is located approximately      from the      property line.

Exhibit A

H. E. Survey No. 416, embracing a portion of, approximately, Section 2, Township 9 North, AND Sections 34 and 35, Township 9 ½ North, ALL in Range 5 East of the Gila and Salt River Base and Meridian, more particularly described s follows:

BEGINNING at Corner No. 1, from which U.S. Location Monument No. 38 H. E. S. bears North 41°25' East, 154.16 chains distant; thence South 39°33' East, 16.24 chains to Corner No. 2; thence South 13°12' West, 16.07 chains to Corner No. 3; thence North 71°15' West, 78.71 chains to Corner No. 4; thence North 13°11' East, 12.59 chains to Corner No. 5; thence South 81°44' East, 65.73 chains to Corner No. 1, the POINT OF BEGINNING.

AND as further described and set forth on Map recorded in Book 12 of Maps, page 20, records of Yavapai County, Arizona.



# CHICAGO TITLE INSURANCE COMPANY

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914 E. Gurley St. Ste 100, Prescott, AZ 86301 • Phone: (928) 778-7800 • Fax: (928) 445-6482

March 29, 2005

Swift Current Lane & Cattle Co.  
Mr. F.D. Hegner  
2525 E. Arizona Biltmore Circle, Ste. C-135  
Phoenix, AZ 85016

Our Order No. 37040063

Enclosed please find your policy of Title Insurance.

If you have any questions regarding the policy or any of the provisions thereof, feel free to contact this office.

Thank you for allowing us to be of service in this matter.

Very truly yours,

Chicago Title Insurance Company

Vicki Sharples  
Policy Typist

Enclosure

AMERICAN LAND TITLE ASSOCIATION  
OWNER'S POLICY  
(10-17-92)

CHICAGO TITLE INSURANCE COMPANY

SUBJECT TO THE EXCLUSIONS FROM COVERAGE, THE EXCEPTIONS FROM COVERAGE CONTAINED IN SCHEDULE B AND THE CONDITIONS AND STIPULATIONS, CHICAGO TITLE INSURANCE COMPANY, a Missouri 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*, CHICAGO TITLE INSURANCE COMPANY has caused this policy to be signed and sealed as of Date of Policy shown in Schedule A, the policy to become valid when countersigned by an authorized signatory.

Issued by:  
CHICAGO TITLE INSURANCE COMPANY  
914 E. GURLEY STREET  
PRESCOTT, ARIZONA 86301

CHICAGO TITLE INSURANCE COMPANY

By:



President



ATTEST



Secretary

## 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:
  - (i) the transaction creating the estate or interest insured by this policy being deemed a fraudulent conveyance or fraudulent transfer; or
  - (ii) 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:
    - (a) to timely record the instrument of transfer; or
    - (b) of such recordation to impart notice to a purchaser for value or a judgment or lien creditor.

**CHICAGO TITLE INSURANCE COMPANY**

**STANDARD OWNERS POLICY**

**SCHEDULE A**

Policy No. 37040063-1

Date of Policy : March 25, 2005 at 3:52 p.m.

Amount of Insurance: \$ 887,000.00

1. Name of Insured:

SWIFT CURRENT LAND & CATTLE COMPANY, L.L.C., an Arizona Limited Liability Company

2. The Estate or Interest in the land which is covered by this policy is:

FEE SIMPLE

3. Title to the Estate or Interest in said land is at the effective date hereby Vested in:

SWIFT CURRENT LAND & CATTLE COMPANY, L.L.C., an Arizona Limited Liability Company

4. The land referred to in this Policy is situated in the County of Yavapai, State of Arizona, and is described as follows:

See Exhibit A attached hereto and made a part hereof.

**CHICAGO TITLE INSURANCE COMPANY**  
**STANDARD OWNERS POLICY**  
**SCHEDULE B**

Policy No. 37040063-1

**EXCEPTIONS:**

THIS POLICY DOES NOT INSURE AGAINST LOSS OR DAMAGE AND THE COMPANY WILL NOT PAY COSTS, ATTORNEY'S FEES OR EXPENSES WHICH ARISE BY REASON OF:

**GENERAL EXCEPTIONS:**

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 by making inquiry of persons in possession thereof.
3. Easements or claims of easements 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 contained 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), and (c) are shown by the public records.
6. Any lien, or right to a lien, for services, labor, or material heretofore or hereafter furnished, imposed by law and not shown by the public records.

**SPECIAL EXCEPTIONS:**

1. Taxes for the full year 2005. First half due on October 1, delinquent on November 1, 2005. Second Half due on March 1, delinquent on May 1, 2006.
2. Water rights, claims or title to water, whether or not of public record.
3. Reservations contained in the patent from the United States of America or the state.
4. Any rights, easements, interests or claims which may exist by reason of or be reflected by the facts shown on the Retracement and Remonumentation Survey recorded in Book 12, Page 20 of Maps.
5. Certificate of Water Right recorded in Book 2203, page 629, and Revised in Book 2399, page 269 of Official Records. (Shown for information purposes only, as Water Rights are not insured herein.)
6. Any rules or regulations prescribed by the Secretary of Agriculture concerning the use of National Forest Service roadway system which provides access to the within described property.
7. Right of way for Tangle Creek.

**CHICAGO TITLE INSURANCE COMPANY**

**STANDARD OWNERS FORM**

**SCHEDULE B**

(Continued)

Policy No. 37040063-1

Countersigned at Prescott, Arizona

By:

Authorized Signatory

A handwritten signature in dark ink, appearing to be "J. M. [unclear]", is written over a horizontal line.

This Policy is invalid unless the cover sheet and  
Schedule B are attached.

## Exhibit A

H. E. Survey No. 416, embracing a portion of, approximately, Section 2, Township 9 North, AND Sections 34 and 35, Township 9 ½ North, ALL in Range 5 East of the Gila and Salt River Base and Meridian, more particularly described as follows:

BEGINNING at Corner No. 1, from which U.S. Location Monument No. 38 H. E. S. bears North 41°25' East, 154.16 chains distant; thence South 39°33' East, 16.24 chains to Corner No. 2; thence South 13°12' West, 16.07 chains to Corner No. 3; thence North 71°15' West, 78.71 chains to Corner No. 4; thence North 13°11' East, 12.59 chains to Corner No. 5; thence South 81°44' East, 65.73 chains to Corner No. 1, the POINT OF BEGINNING.

AND as further described and set forth on Map recorded in Book 12 of Maps, page 20, records of Yavapai County, Arizona.

## 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 against 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.

#### **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 the Company at the issuing office or to:

Chicago Title Insurance Company  
Claims Department  
171 North Clark Street  
Chicago, Illinois 60601-3294

**FILE COPY**

Western  
Land  
Group, Inc.

507 S. Sherman Street, Denver, CO 80209 • (303) 715-3570 Office • (303) 715-3569 Fax • email: apoe@westernlandgroup.com

## FAX COVER SHEET

Date: **January 15, 2004**

To: **Bruno Hegner**

Fax: **(602) 956-0332**

From: **Adam Poe**

Phone: **303-715-3570**

Fax: **303-715-3569**

Number of Pages Including Cover:

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Message:

Bruno:

Here's the owner's title policy from 1988 for Tangle Creek. It's clean. Shuster tells me an update will be the same.

I'd like to get them a clean copy of the contract today or tomorrow. Would you like them to sign before Rickus?

ap

BILL MOORE  
2200 N. CENTRAL AVE., #205  
PHOENIX, AZ 85004-1419  
PHONE: (602) 253-1812  
FAX: (602) 253-9188  
EMAIL: bmoorephx@aol.com

NO. OF PAGES  
INCLUDING COVER (7)

\*\*\*\*\* FAX \*\*\*\*\*

DATE: 1/14/04  
TO: Adam Poe  
COMPANY: Western Land Group, Inc.  
FAX: 303 715-3569  
FROM: Bill Moore  
SUBJECT: LX Bar Ranch / Tangle Creek  
Tonto National Forest

---

REMARKS: Title Policy enclosed.

If you guys don't have a preference for title/escrow company. We would like to  
use: Bruce Barnes  
Fidelity National Title  
2390 E. Camelback Road, Ste 120  
Phoenix, AZ 85016  
(602) 224-8404  
bbarnes@fnf.com

*Bill Moore*

Loan Policy - Form 1  
71  
JA 1001 (9/87)



LKBAR  
TANLECRELL

## POLICY OF TITLE INSURANCE

ISSUED BY

*First American Title Insurance Company of Arizona*

SUBJECT TO THE EXCLUSIONS FROM COVERAGE, THE EXCEPTIONS FROM COVERAGE CONTAINED IN SCHEDULE B AND THE CONDITIONS AND STIPULATIONS, FIRST AMERICAN TITLE INSURANCE COMPANY OF ARIZONA, an Arizona 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;
5. The invalidity or unenforceability of the lien of the insured mortgage upon the title;
6. The priority of any lien or encumbrance over the lien of the insured mortgage;
7. Lack of priority of the lien of the insured mortgage over any statutory lien for services, labor or material:
  - (a) arising from an improvement or work related to the land which is contracted for or commenced prior to Date of Policy; or
  - (b) arising from an improvement or work related to the land which is contracted for or commenced subsequent to Date of Policy and which is 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;
8. Any assessments for street improvements under construction or completed at Date of Policy which now have gained or hereafter may gain priority over the insured mortgage; or
9. The invalidity or unenforceability of any assignment of the insured mortgage, provided the assignment is shown in Schedule A, or the failure of the assignment shown in Schedule A to vest title to the insured mortgage in the named insured assignee free and clear of all liens.

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

IN WITNESS WHEREOF, First American Title Insurance Company of Arizona has caused this policy to be signed and sealed by its duly authorized officers as of Date of Policy shown in Schedule A.

*First American Title Insurance Company of Arizona*



BY J. Brumley PRESIDENT  
ATTEST Ed Thomas SECRETARY

FIRST AMERICAN TITLE INSURANCE COMPANY OF ARIZONA

SCHEDULE A

Policy No. 97334-M

Policy Amount: \$384,000.00

Effective Date: September 9, 1988  
4:30 p.m.

Type of Coverage: A.L.T.A. EXTENDED LENDER'S (6-1-87)

1. Name of Insured:

G & S INVESTMENTS  
an Arizona general partnership

2. The fee estate or interest in the land described in this Schedule and which is encumbered by this insured mortgage is at Date of Policy vested in:

EUNICE B. VEAZEY  
a widow

3. The mortgage, herein referred to as the insured mortgage, and assignments thereof, if any are described as follows:

A Deed of Trust given to secure an indebtedness in the original principal amount of \$525,000.00, dated September 8, 1988, recorded September 9, 1988, in Book 2078 of Official Records, Pages 637-639.

TRUSTOR : EUNICE B. VEAZEY, a widow

TRUSTEE : FIRST AMERICAN TITLE INSURANCE COMPANY OF ARIZONA,  
an Arizona corporation

BENEFICIARY: G & S INVESTMENTS, an Arizona general partnership

4. The land referred to in this Policy is located in Yavapai County, Arizona, and is described as:

SEE EXHIBIT "A" ATTACHED HERETO AND BY REFERENCE MADE PART HEREOF

E X H I B I T "A"

H. E. Survey No. 416, embracing a portion of, approximately, Section Two (2), in Township Nine (9) North AND Sections Thirty-four (34) and Thirty-five (35), in Township Nine and One-half (9½) North. ALL in Range Five (5) East of the Gila and Salt River Base and Meridian, more particularly described as follows:

BEGINNING at Corner No. 1, from which U. S. Location Monument No. 38 H. E. S. bears North 41°25' East, 154.16 chains distant; thence South 39°33' East, 16.24 chains to Corner No. 2; thence South 13°12' West, 16.07 chains to Corner No. 3; thence North 71°15' West, 78.71 chains to Corner No. 4; thence North 13°11' East, 12.59 chains to Corner No. 5; thence South 81°44' East, 65.73 chains to Corner No. 1, the POINT OF BEGINNING.

AND AS further described and set forth on Map recorded in Book 12 of Maps, Page 20.

**ENDORSEMENT***First American Title Insurance Company of Arizona*

THIS ENDORSEMENT IS EFFECTIVE ONLY IF DESCRIBED IN THE ENDORSEMENT SCHEDULE CONTAINED IN THIS POLICY AND SHALL BE EFFECTIVE AS OF THE DATE SET FORTH IN SAID SCHEDULE.

The Company assures the insured that as of the effective date hereof there is located on said land the improvements as described in said Endorsement Schedule and that the map attached to this policy shows the correct location and dimensions of the land described in Schedule A as disclosed by those records which under the recording laws impart constructive notice as to said land.

The Company hereby insures the insured against loss which said insured shall sustain in the event that the assurance herein shall prove to be incorrect.

The total liability of the Company under this policy and any endorsement therein shall not exceed, in the aggregate, the face amount of this policy and costs which the Company is obligated under the Conditions and Stipulations hereof to pay.

This endorsement is made a part of this policy and is subject to the Schedules, Conditions and Stipulations therein, except as modified by the provisions hereof.

*First American Title Insurance Company of Arizona*



LTAA ENDORSEMENT No. 5  
TYPE OF IMPROVEMENT  
FATCOA 1056 (Rev. 4/87)

## FIRST AMERICAN TITLE INSURANCE COMPANY OF ARIZONA

Policy No.: 97334-M

## ENDORSEMENT SCHEDULE

The following endorsements are hereby incorporated and attached to this Policy of Title Insurance and are effective as of the effective date set forth in Schedule A hereof unless otherwise specified in this Schedule.

L.T.A.A. No. 3R Endorsement (Covenants, conditions, restrictions, encroachments, mineral rights)

L.T.A.A. No. 5 Endorsement (Location and dimensions of land and improvements located thereon)

Type of Improvement: VACANT LAND

NOTE: There may be endorsements issued in connection with this Policy which are not referenced in this Schedule, however, said endorsements must contain the Policy number, date and facsimile authorized signature.

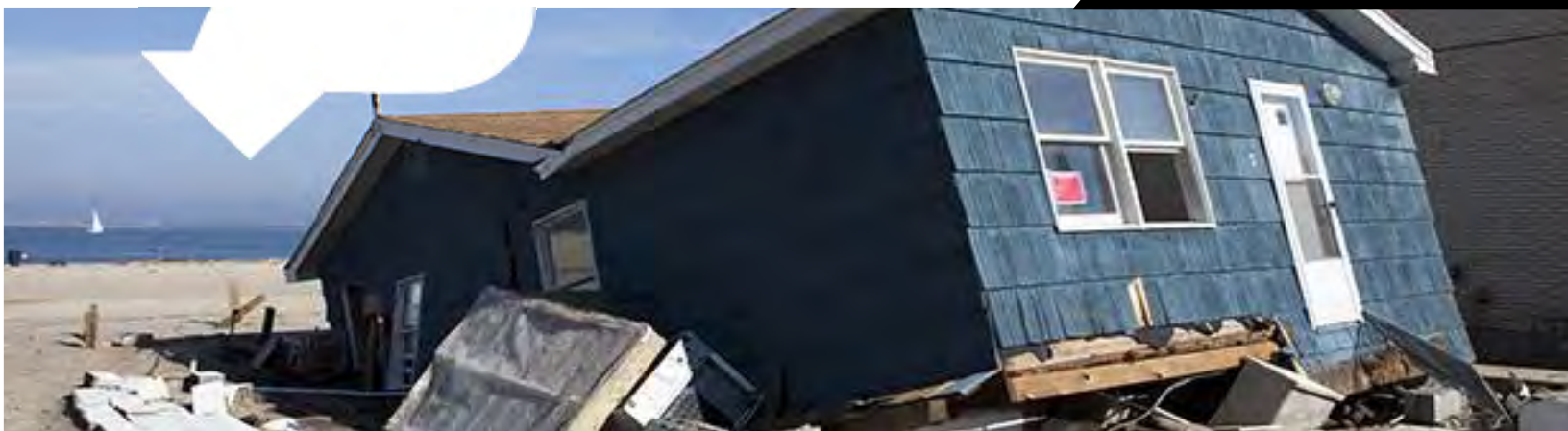
---

## **APPENDIX D**

**ERS ENVIRONMENTAL  
LIENRESEARCH REPORT  
WITH RECORDED DEEDS**

# Environmental Lien Research

REPORT RESULTS



## Report Results for:

Sarah Richman  
WestLand Resources  
4001 E Paradise Falls Drive  
Tucson, AZ 85712  
2104668142 EL  
April 29, 2016

**Subject Site:**

*Clients Project #:* **807.119**  
*Address:* **Tangle Creek**  
*City, State Zip:* **Yavapai County, AZ**

**ERS Order #:**

**2104668142 EL**

**Prepared For:**

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

**Date:**

**April 29, 2016**

---



# **The NETR Environmental Lien Search Report**

**TANGLE CREEK  
YAVAPAI COUNTY, ARIZONA**

**Friday, April 29, 2016**

**Project Number: L16-01205**

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.

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# 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**

Tangle Creek  
Yavapai County, Arizona

### **RESEARCH SOURCE**

Source: Yavapai County Assessor  
Yavapai County Recorder

### **DEED INFORMATION**

Type of Instrument: Warranty Deed

Grantor: The Garry J. Shuster No. 3 Family Limited Partnership, an Arizona limited partnership

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

Deed Dated: 03/21/2005  
Deed Recorded: 03/25/2005  
Book: 4246  
Page: 127

### **LEGAL DESCRIPTION**

H. E. Survey No. 416, embracing a portion of, approximately, Section 2, Township 9 North, and Sections 34 and 35, Township 9 1/2 North, all in Range 5 East of the Gila and Salt River Base and Meridian, as further described and set forth on Map recorded in Book 12 of Maps, Page 20, situated and lying in the County of Yavapai, State of Arizona

Assessor's Parcel Number(s): 501-25-002

### **ENVIRONMENTAL LIEN**

Environmental Lien: Found ☐ Not Found ☒

### **OTHER ACTIVITY AND USE LIMITATIONS (AULs)**

Other AULs: Found ☐ Not Found ☒

17

FEE	
\$8	/
\$8	/
\$5	
\$1	/
\$1	/

**When recorded, mail to:**

Mr. F.D. Hegner  
 Swift Current Land & Cattle, L.L.C.  
 2525 E. Arizona Biltmore Circle  
 Suite C-135  
 Phoenix, AZ 85016

Escrow No. 20004184-BEB

3835955 BK 4246 PG 127  
 Yavapai County, Arizona  
 Ana Wazman-Trujillo, Recorder  
 03/25/2005 03:52P PAGE 1 OF 6  
 CHICAGO TITLE INS CO  
 RECORDING FEE 8.00  
 SURCHARGE 8.00  
 POSTAGE 1.00

**WARRANTY DEED**

For the consideration of Ten Dollars, and other valuable considerations, THE GARRY J. SHUSTER NO. 3 FAMILY LIMITED PARTNERSHIP, an Arizona limited partnership, hereafter called the Grantor, does hereby convey to SWIFT CURRENT LAND & CATTLE, L.L.C., an Arizona limited liability company, the following real property situated in Yavapai County, Arizona, together with all rights and privileges appurtenant thereto:

SEE EXHIBIT A ATTACHED HERETO  
 AND BY THIS REFERENCE INCORPORATED HEREIN


Subject only to those Permitted Exceptions set forth on Exhibit B attached hereto and incorporated herein, Grantor warrants the title to such property against all persons whomsoever.

Dated this 21<sup>st</sup> day of March, 2005.

**GRANTOR**

THE GARRY J. SHUSTER NO. 3 FAMILY LIMITED PARTNERSHIP, an Arizona Limited partnership

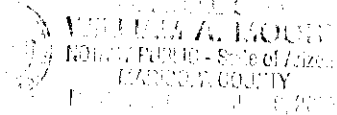
By: SHUSTER INVESTMENTS NO. 3, L.L.C., an  
 Arizona limited liability company  
 "General Partner"

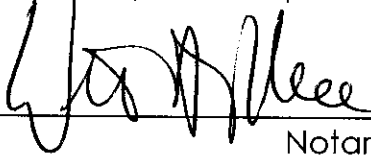
By:   
 Garry J. Shuster, Manager

STATE OF ARIZONA       )  
                                      ) ss.  
County of Maricopa       )

This instrument was acknowledged before me this 24<sup>th</sup> day of March, 2005, by Garry J. Shuster, Manager of Shuster Investments No. 3, L.L.C., an Arizona limited liability company, General Partner of The Garry J. Shuster No. 3 Family Limited Partnership, an Arizona limited partnership.

**SEAL**



  
\_\_\_\_\_  
Notary Public

My Commission Expires: 1/6/07

Exhibit "A"

**Legal Description**

H. E. Survey No. 416, embracing a portion of, approximately, Section 2, Township 9 North, AND Sections 34 and 35, Township 9 ½ North, ALL in Range 5 East of the Gila and Salt River Base and Meridian, more particularly described s follows:

BEGINNING at Corner No. 1, from which U.S. Location Monument No. 38 H. E. S. bears North 41°25' East, 154.16 chains distant; thence South 39°33' East, 16.24 chains to Corner No. 2; thence South 13°12' West, 16.07 chains to Corner No. 3; thence North 71°15' West, 78.71 chains to Corner No. 4; thence North 13°11' East, 12.59 chains to Corner No. 5; thence South 81°44' East, 65.73 chains to Corner No. 1, the POINT OF BEGINNING.

AND as further described and set forth on Map recorded in Book 12 of Maps, page 20, records of Yavapai County, Arizona.

Exhibit B

**Permitted Exceptions**

SPECIAL EXCEPTIONS:

1. Omitted
2. Water rights, claims or title to water, whether or not of public record.
3. Reservations contained in the patent from the United States of America or the state.
4. Any rights, easements, interests or claims which may exist by reason of or be reflected by the facts shown on the Retracement and Remonumentation Survey recorded in Book 12, Page 20 of Maps.
5. Certificate of Water Right recorded in Book 2203, page 629, and Revised in Book 2399, page 269 of Official Records. (Shown for information purposes only, as Water Rights are not insured herein.)
6. Any rules or regulations prescribed by the Secretary of Agriculture concerning the use of National Forest Service roadway system which provides access to the within described property.
7. Right of way for Tangle Creek.

---

## **APPENDIX E**

### **ERC RecCHECK AREA REPORT RESULTS**



RecCheck

Area

Report Results

The Standard for ASTM/AAI Radius Searches

(One Mile Environmental Records Search, Exceeds ASTM 1527/1528 and EPA AII Appropriate Inquiry)

REPORT RESULTS



Site Location:

Tangle Creek

Yavapai County, AZ 86333

(N 34-9-35, W 111-49-1) NAD83

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## EXECUTIVE SUMMARY

### *INFORMATION ON THE REQUESTED LOCATION*

<b>Site Address:</b>	Tangle Creek Yavapai County, AZ 86333
<b>Client Project Name/Number:</b>	Tangle Creek 807.119
<b>Coordinates:</b>	N 34-9-35, W 111-49-1 (NAD 83) 34.1596021214955, -111.816872472796
<b>Date of Report</b>	April 19, 2016
<b>ERS Project Number:</b>	2104666842
<b>Subject Site Listed on the following lists:</b>	Not Listed
<b>Subject Site Listed as Map ID#:</b>	N/A
<b>USGS 7.5 Minute Quad Map:</b>	Bloody Basin
<b>Subject Site Located within a Potential Area of Concern:</b>	No
<b>Township, Section and Range:</b>	Township: 09N Range: 05E Section: 035
<b>Site Elevation: (feet above or below (-) mean sea level)</b>	Approximately 2920 ft near the center of the area.
<b>Flood Zone: (FEMA Q3 Digital Data)</b>	Panel: 04025C3300G, Effective Date: 9/3/2010 Zone A - Areas with a 1% annual chance of flooding and a 26% chance of flooding over the life of a 30-year mortgage. Because detailed analyses are not performed for such areas; no depths or base flood elevations are shown within these zones. Zone X - Area of Minimal Flood Hazard 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.
<b>Fire Insurance Map Coverage:</b>	No
<b>Radon Information:</b>	EPA Radon Zone: 2  (Predicted avg for county: 2 to 4 pCi/L)
<b>Search Radius Expansion Size: (In Miles)</b>	0

<b>Soil Type:</b> <b>(USDA Soil Survey Geographic Database) (SSURGO)</b>	TULOSO 15% to 35% slopes, 60% of total TINAJA 3% to 15% slopes, 40% of total
<b>Zip Codes Searched for</b> <b>"Un-Mappable" Sites:</b>	Not Researched
<b>Occurrence Count:</b>	0

---

## **SUMMARY OF OCCURRENCES**

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

## 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
DOD-AZ	No	0
EpaNPL-AZ	No	0
WQARF-AZ	No	0
NPL-R9-US	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

	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
		ERNS-US	0	None Listed
Federal ERNS list	Property Only / 0.0625			
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
		LUST-Closed-AZ	0	None Listed
		LUST-Open-AZ	0	None Listed
State and Tribal Leaking Storage Tank Lists	0.5 / 0.5	Tribal-LUST-Closed-Reg9	0	None Listed
		Tribal-LUST-Open-Reg9	0	None Listed
		AST2-AZ	0	None Listed
		AST-AZ	0	None Listed
		FEMA-UST-US	0	None Listed
State and Tribal Registered Storage Tank Lists	Property and adjoining properties / 0.25	Tribal-UST-Reg9	0	None Listed
		UST-AZ	0	None Listed
		Controls-AZ	0	None Listed
		Tribal-VCP-US	0	None Listed
State and Tribal Inst/Eng Control Registries	Property Only / 0.5			
State and Tribal Voluntary Cleanup Sites	0.5 / 0.5	VCP-Closed-AZ	0	None Listed
		VCP-Open-AZ	0	None Listed
		BF-Closed-AZ	0	None Listed
State and Tribal Brownfield Sites	0.5 / 0.5	BF-Open-AZ	0	None Listed
		BF-US	0	None Listed
		Tribal-BF-US	0	None Listed

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-NY	0.0625	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

### STATE ASTM/AAI DATABASES

DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
SS-AZ	0.5	0	0	0	0	-	0
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

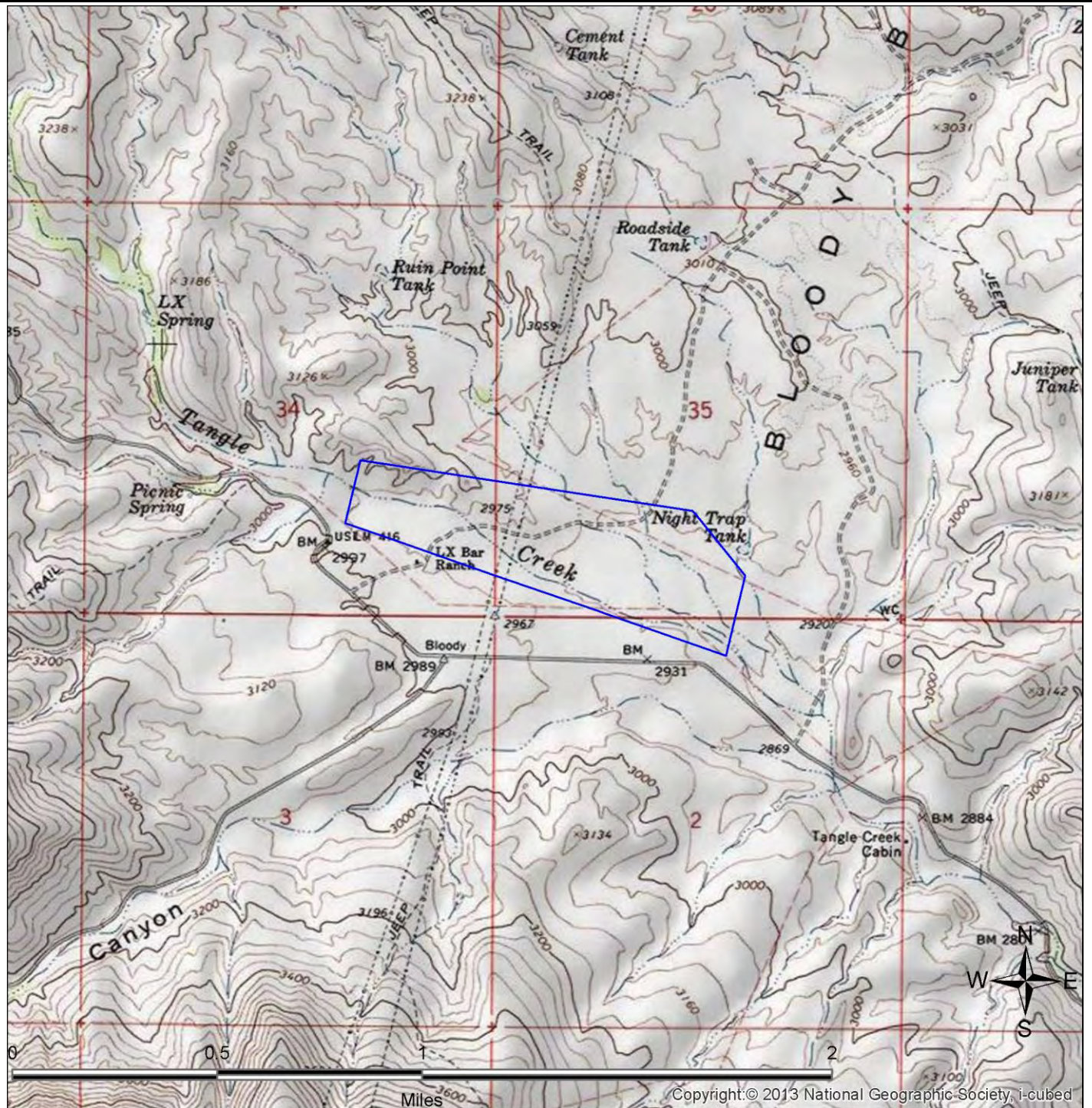
DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
Air-AZ	0.25	0	0	0	-	-	0
Allfac-AZ	0.25	0	0	0	-	-	0
BioFuel-US	0.25	0	0	0	-	-	0
CDL-AZ	0.0625	0	0	-	-	-	0
CDL-US	0.0625	0	0	-	-	-	0
Coal-Ash-AZ	0.5	0	0	0	0	-	0
Coal-Ash-Dams-US	0.5	0	0	0	0	-	0
Dams-AZ	0.25	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-FIFRA-US	0.25	0	0	0	-	-	0
HIST-MLTS-US	0.25	0	0	0	-	-	0
Hist-US	0.0625	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
Tribal-Air-US	0.25	0	0	0	-	-	0
TRIS2000-US	0.0625	0	0	-	-	-	0

### SUPPLEMENTAL DATABASES

DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
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-Cleaners	0.25	0	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-Mortuaries	0.0625	0	0	-	-	-	0
Hist-Paint-Stores	0.0625	0	0	-	-	-	0
Hist-Petroleum	0.0625	0	0	-	-	-	0
Hist-Printers	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-Transportation	0.0625	0	0	-	-	-	0
Hist-Trucking	0.0625	0	0	-	-	-	0
Hist-Vehicle-Parts	0.0625	0	0	-	-	-	0



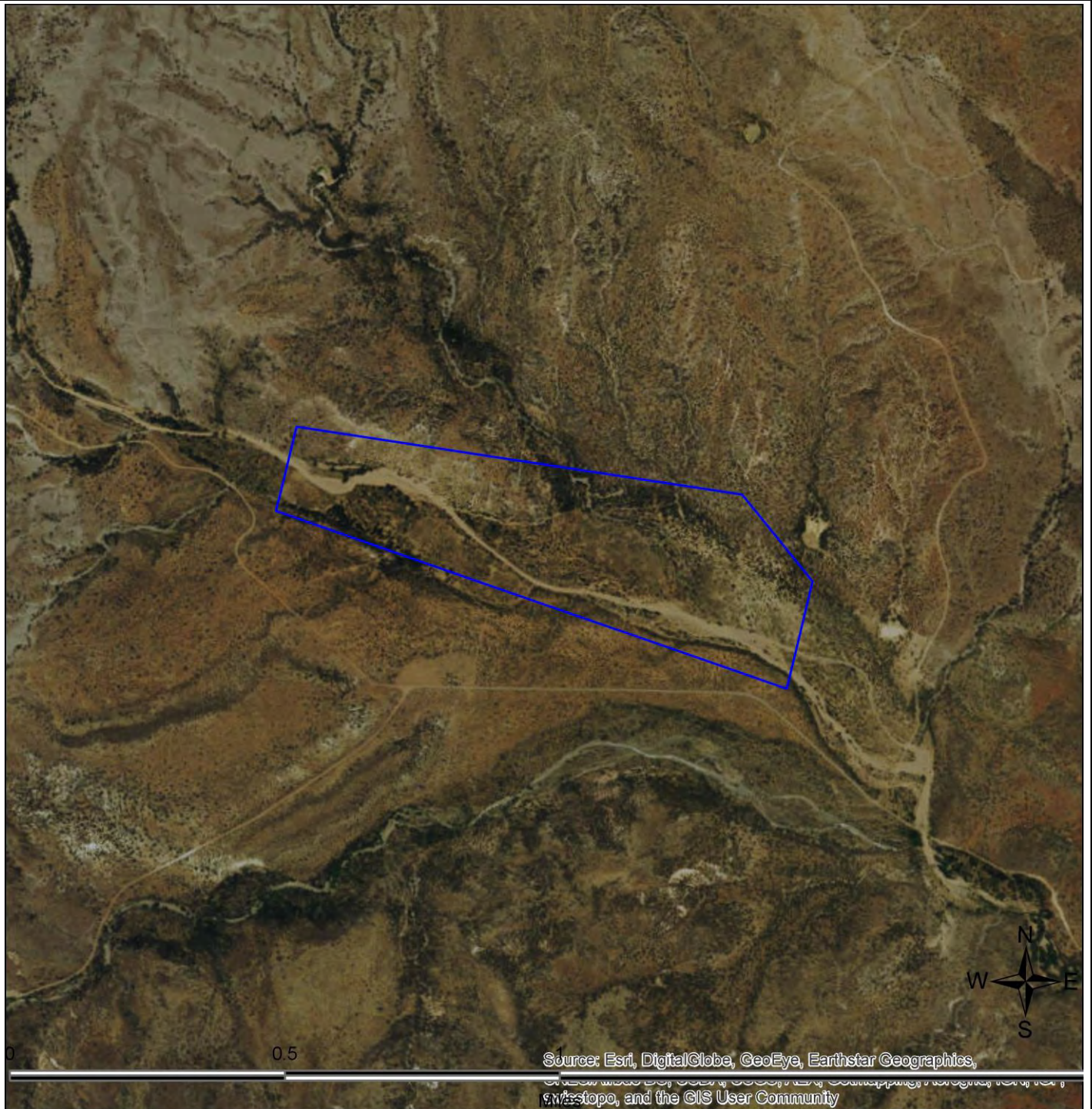
## **SITE LOCATION TOPOGRAPHIC MAP**

U.S. Geological Survey, Bloody Basin Quadrangle, 7.5 Minute Series

WestLand Resources

Tangle Creek  
Yavapai County, AZ 86333

FIGURE: 1  
JOB: 807.119  
DATE: 4/19/2016



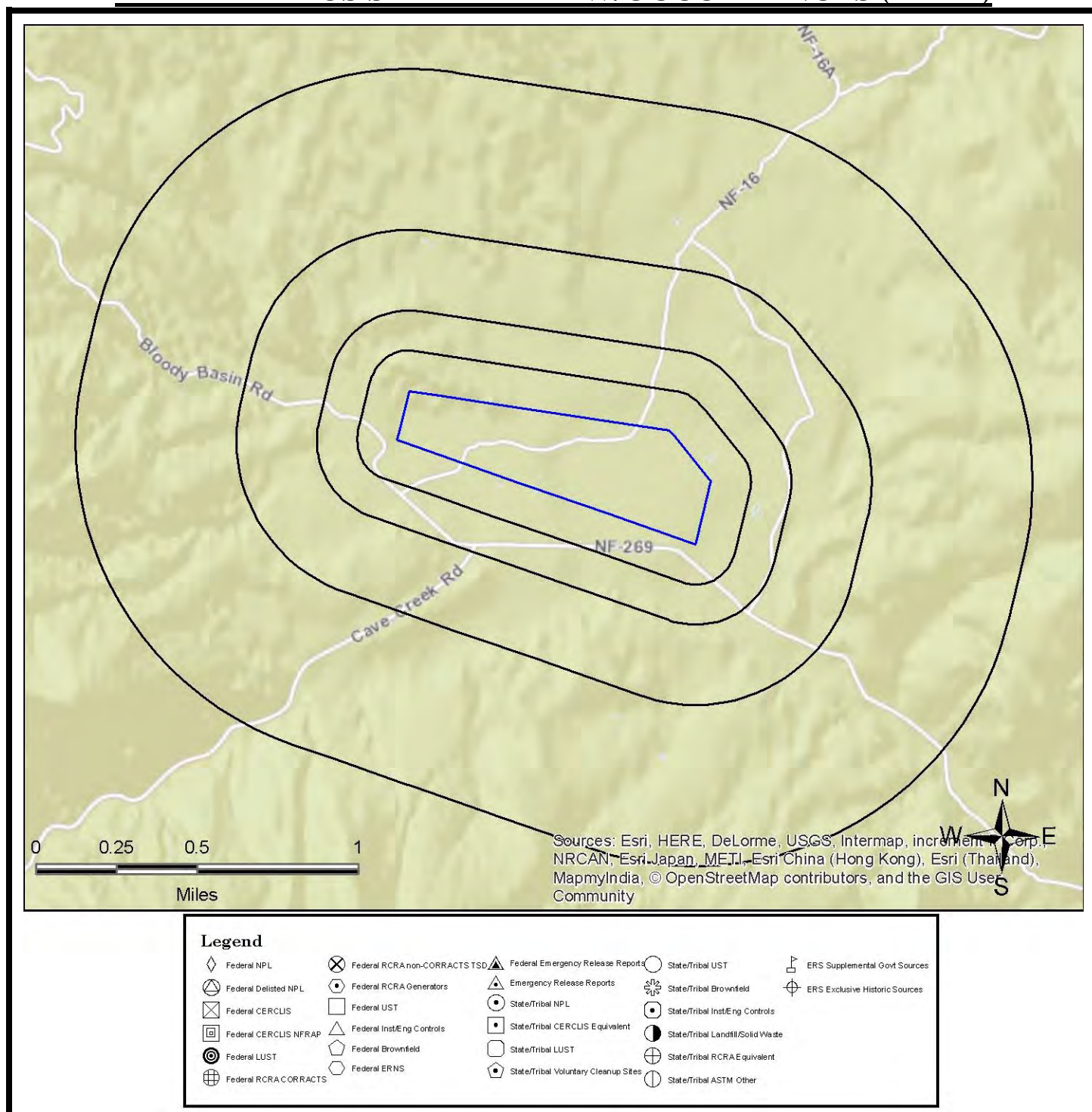
### **SITE LOCATION MAP**

WestLand Resources

Tangle Creek  
Yavapai County, AZ 86333

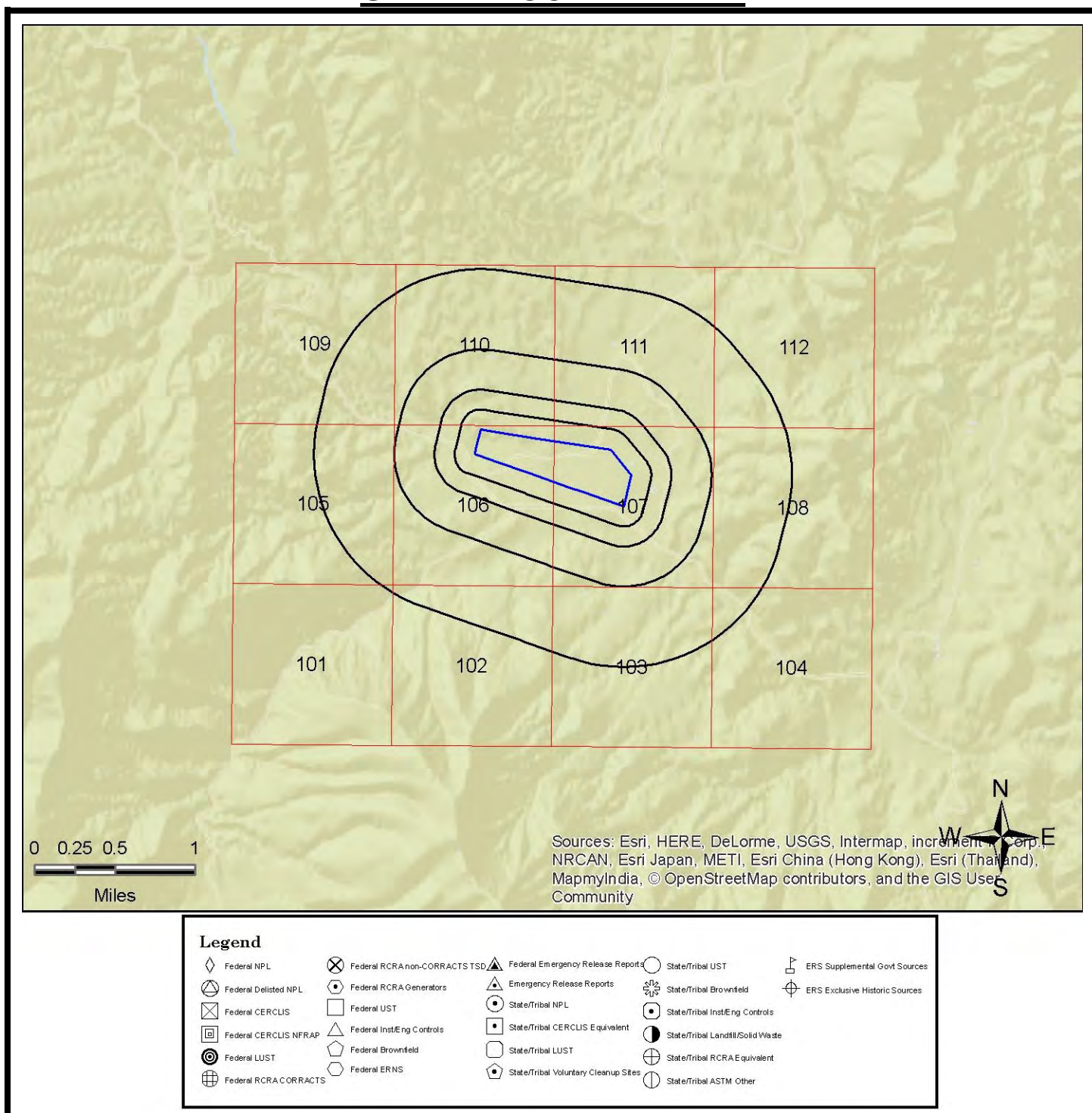
FIGURE: 2  
JOB: 807.119  
DATE: 4/19/2016

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



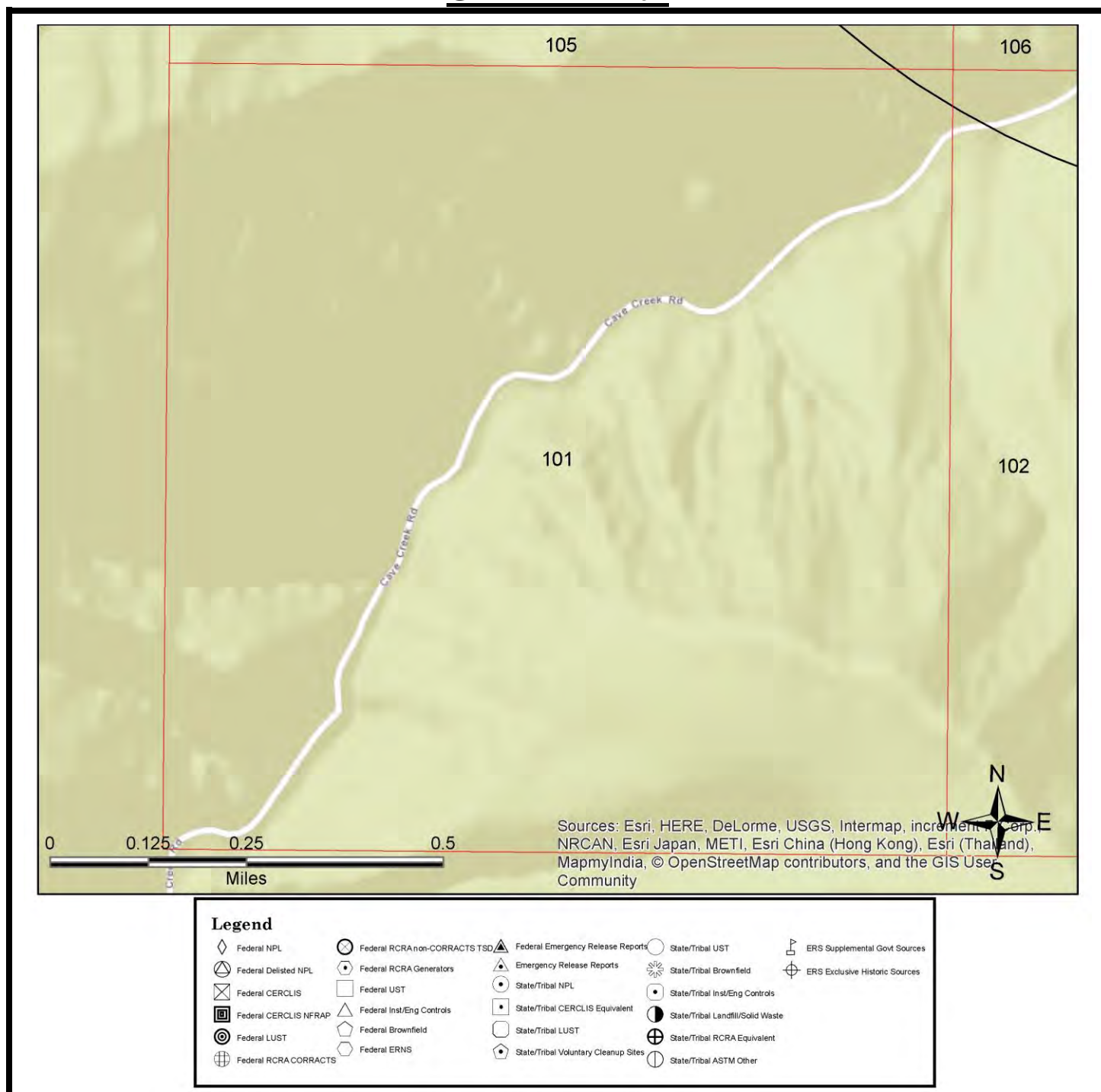
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID LAYOUT MAP KEY



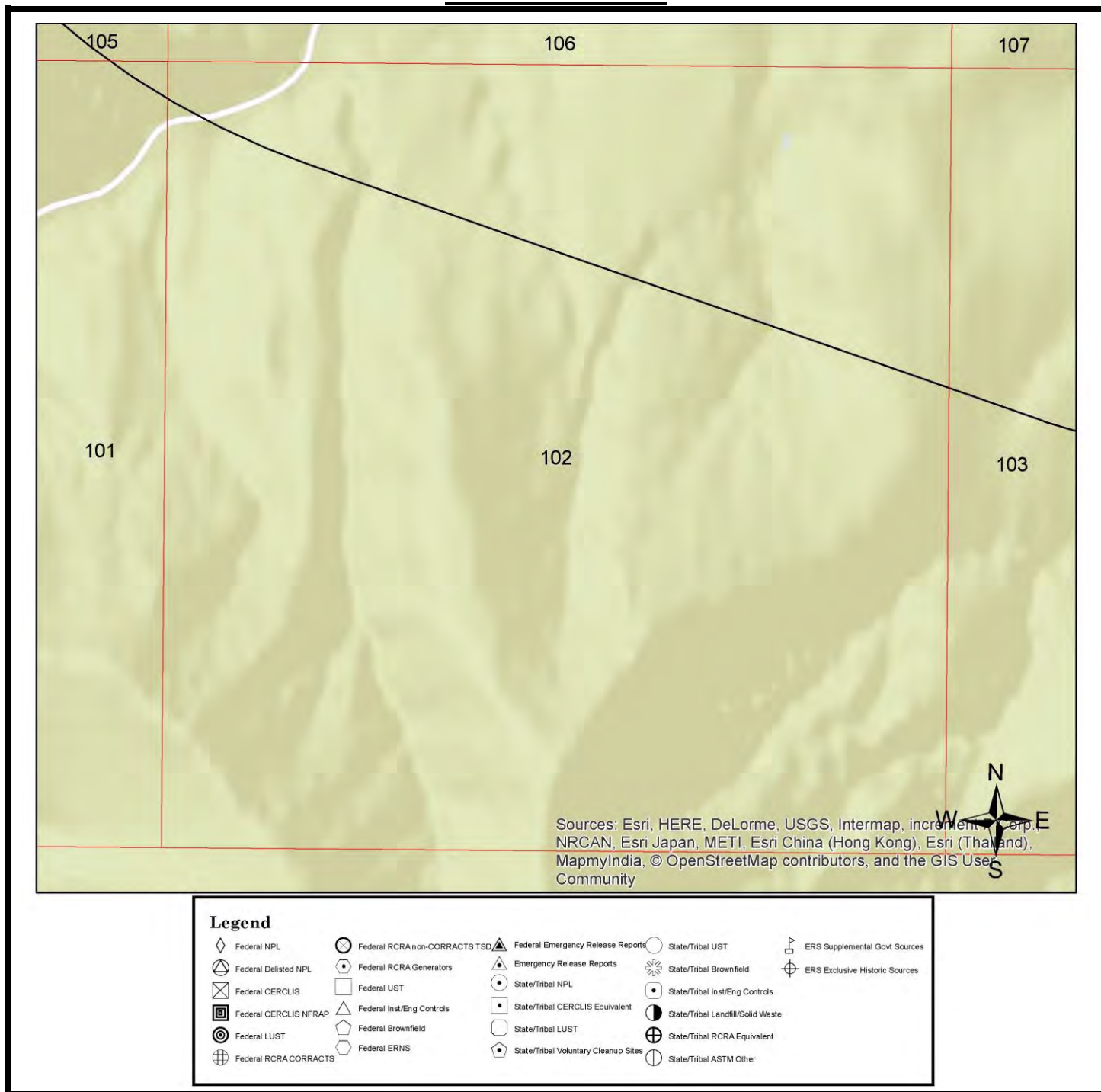
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 101



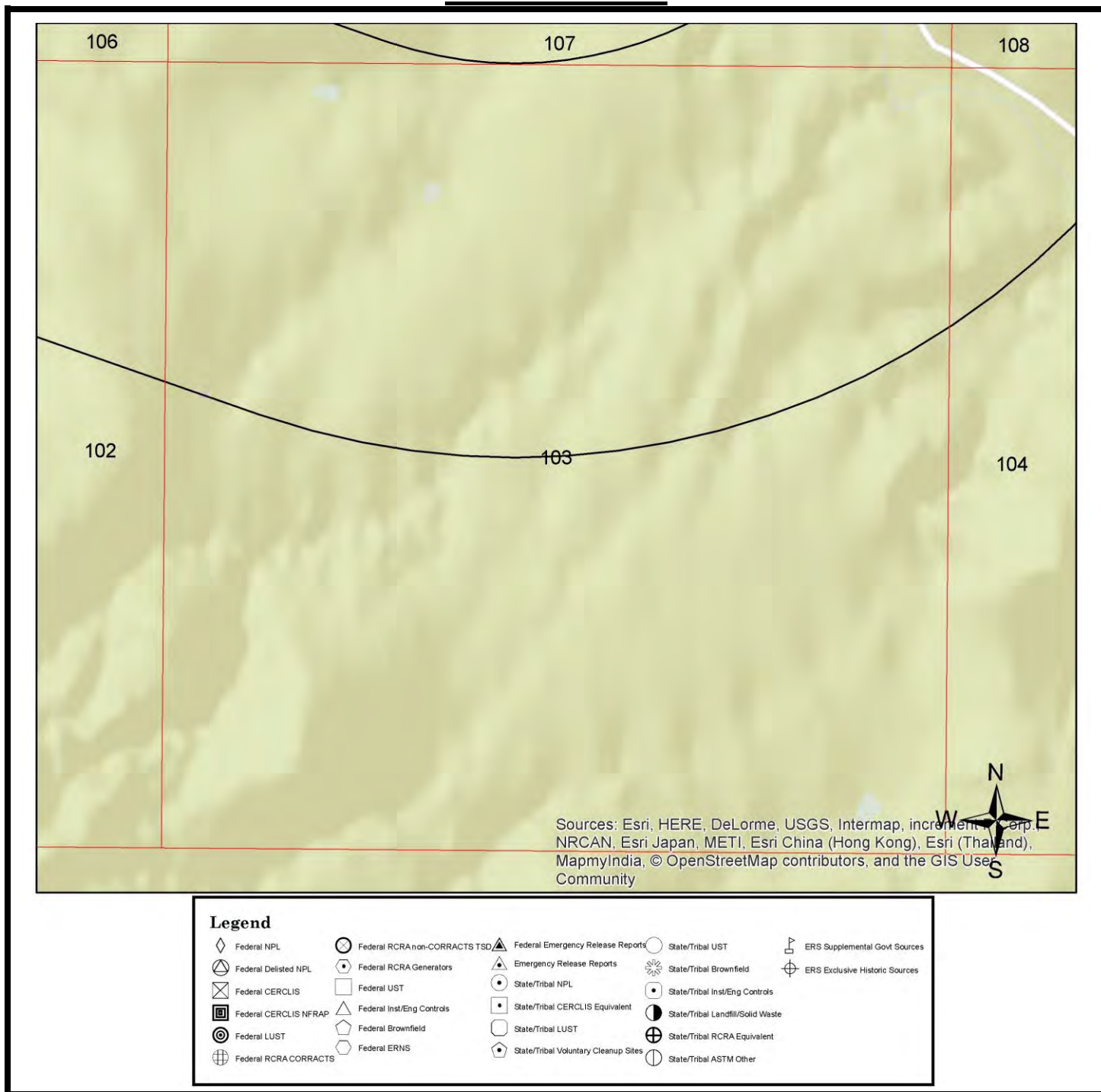
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 102



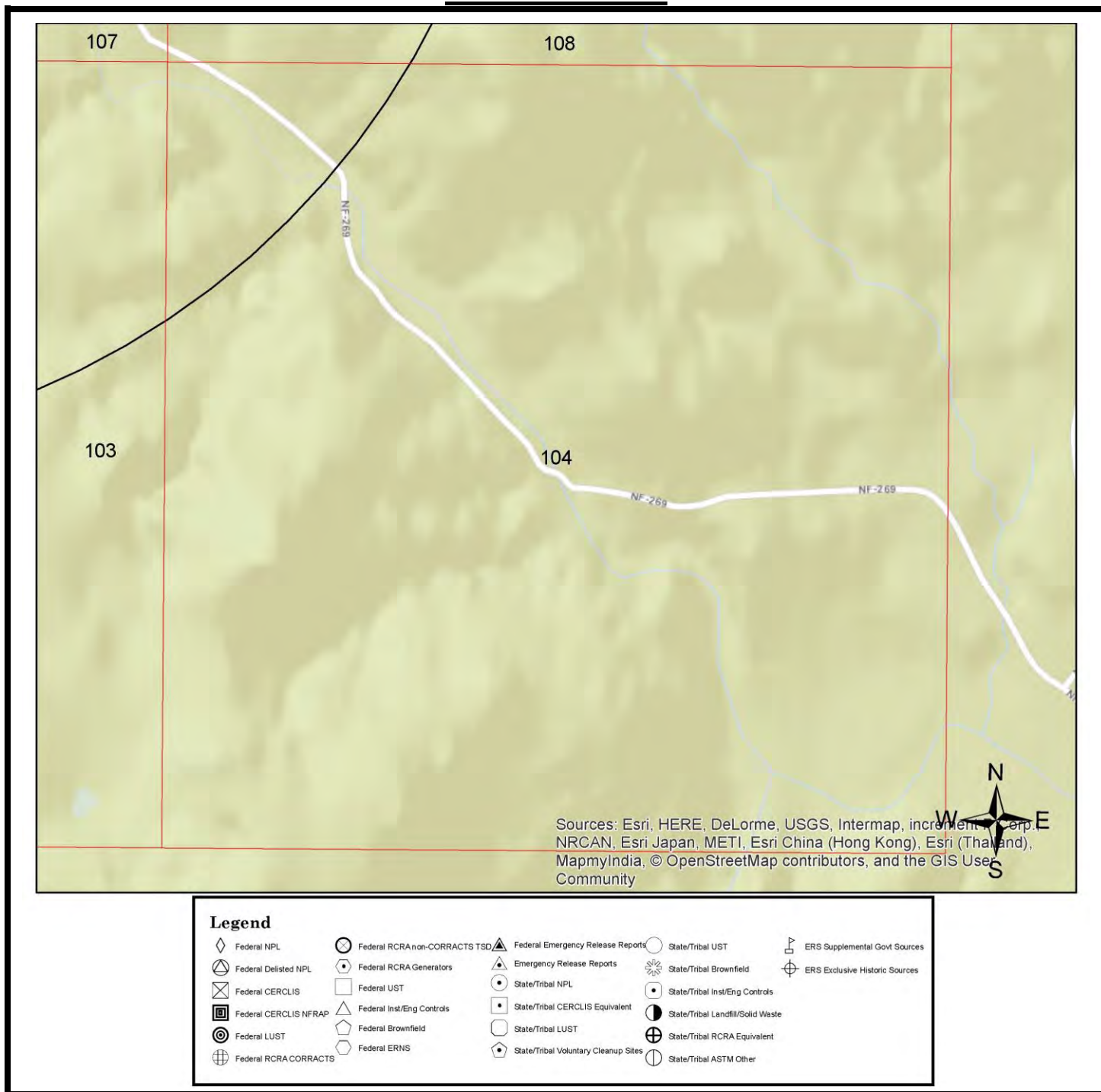
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 103



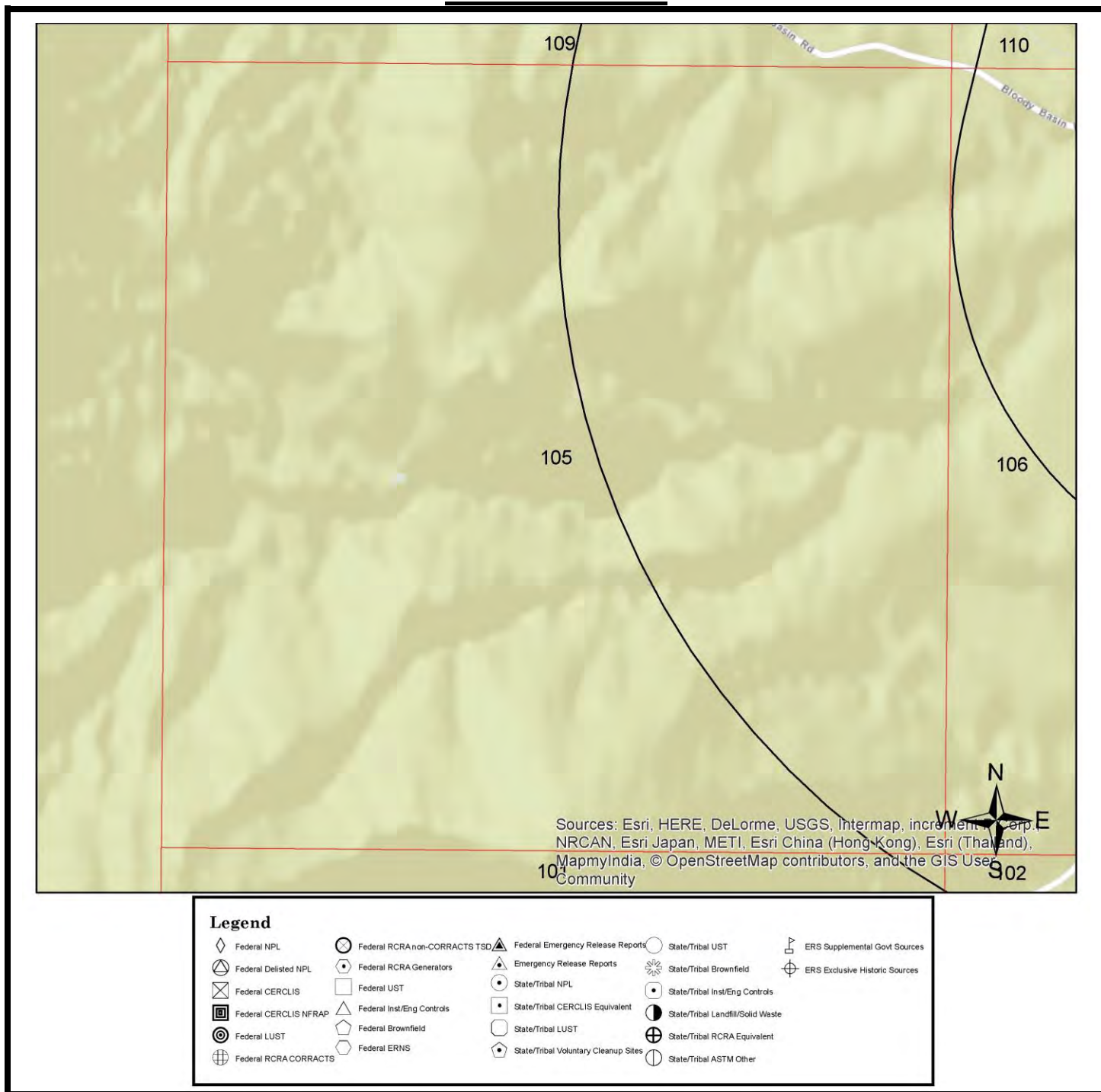
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 104



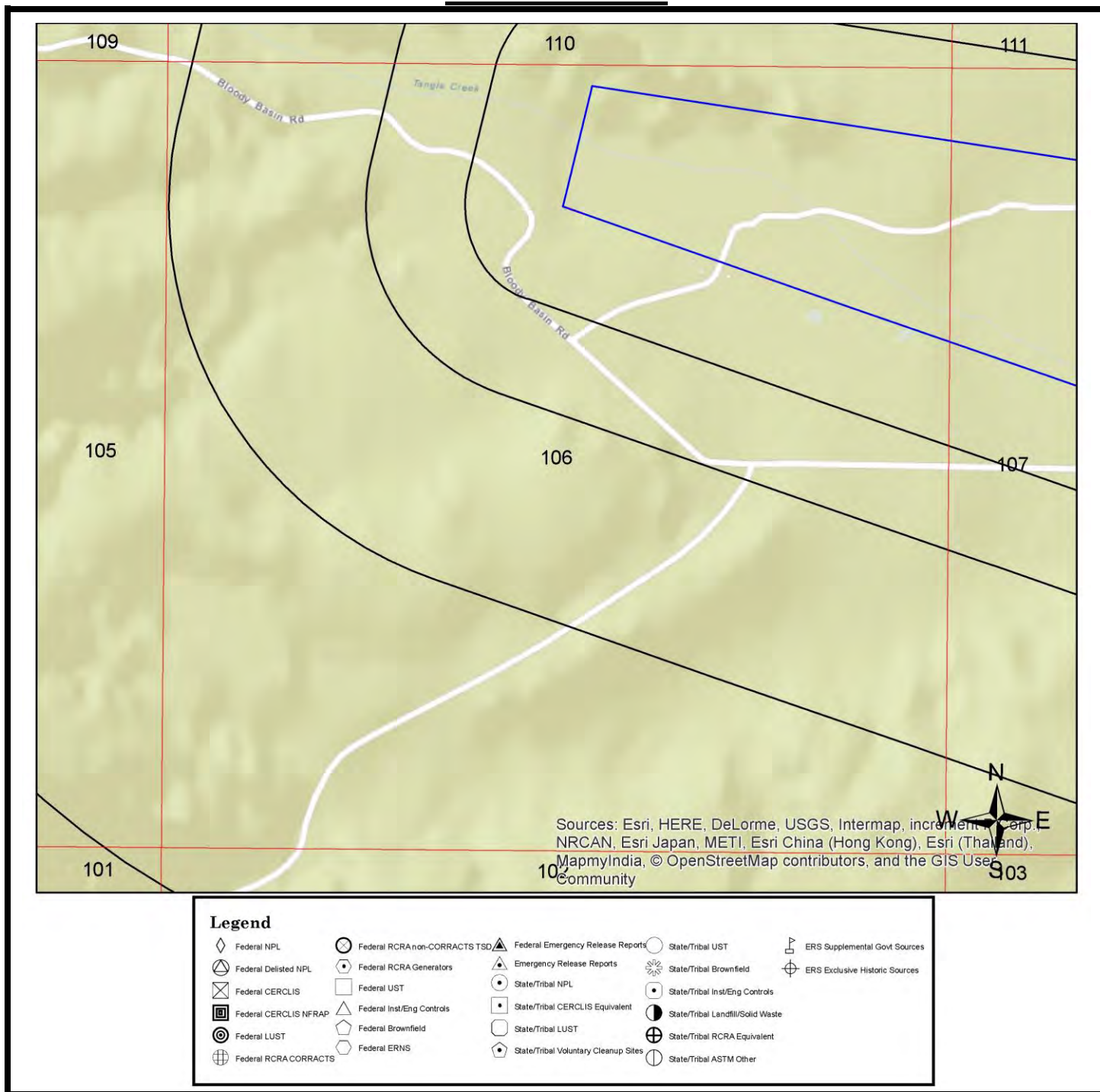
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 105



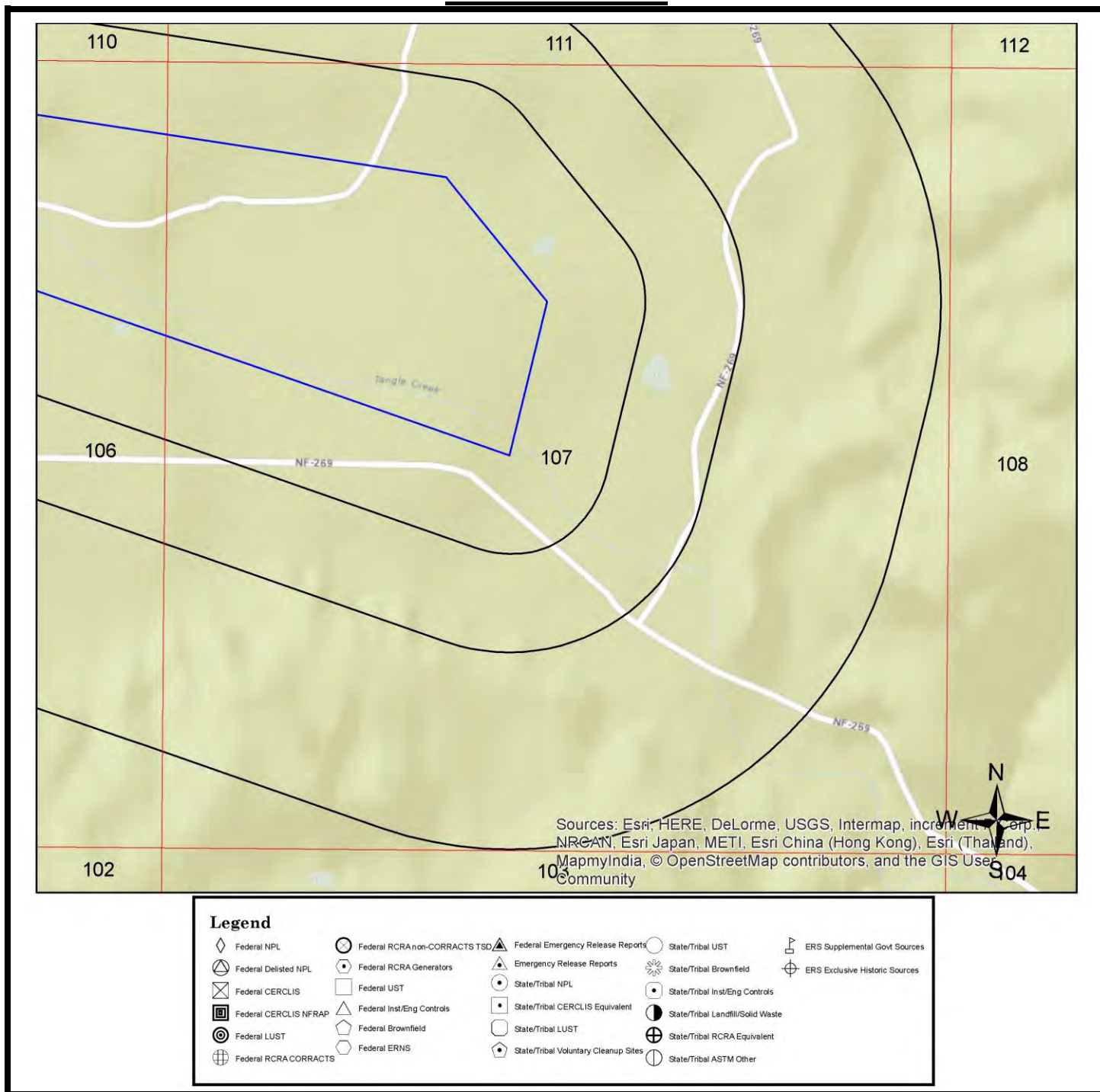
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 106



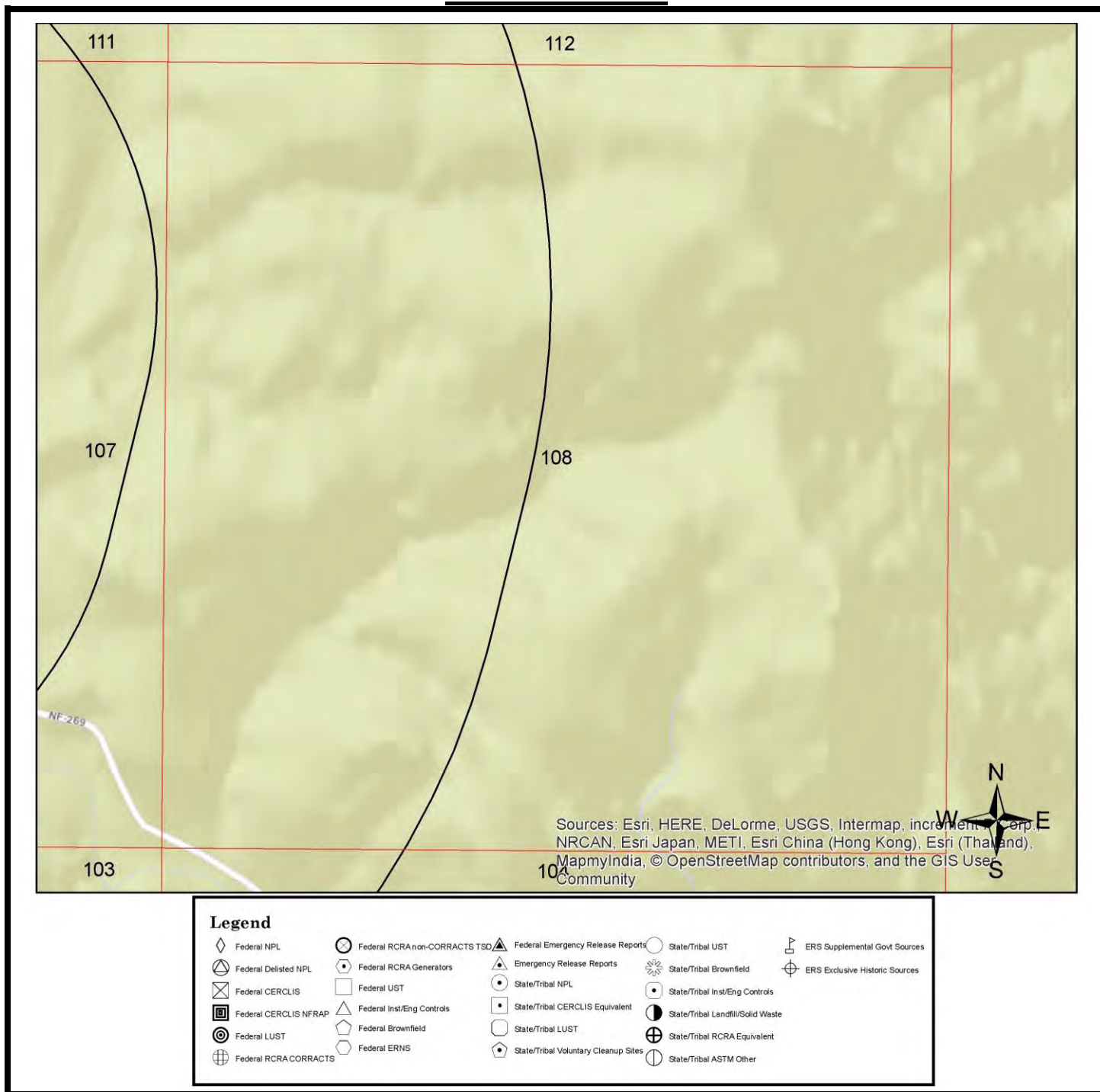
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 107



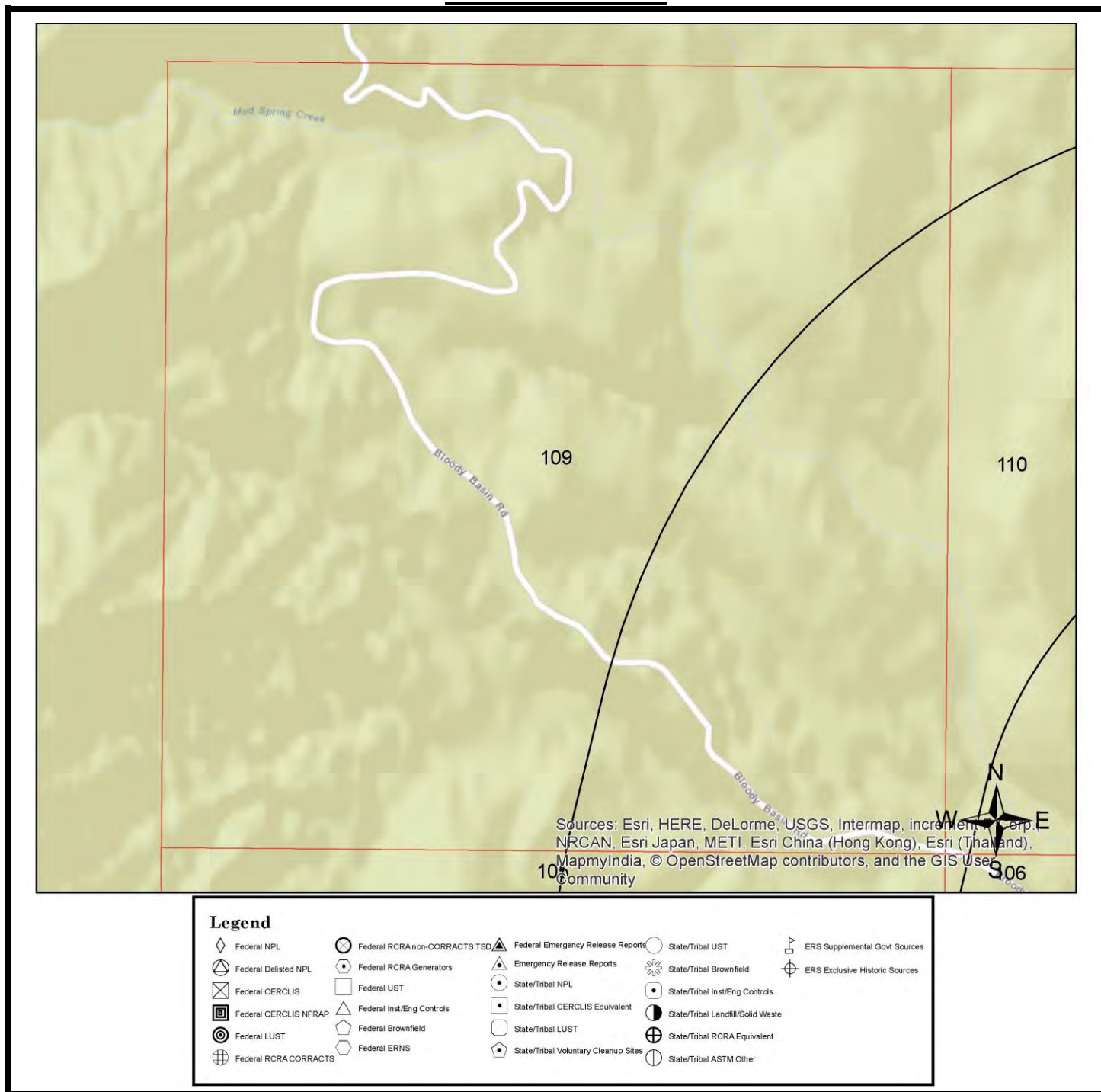
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 108



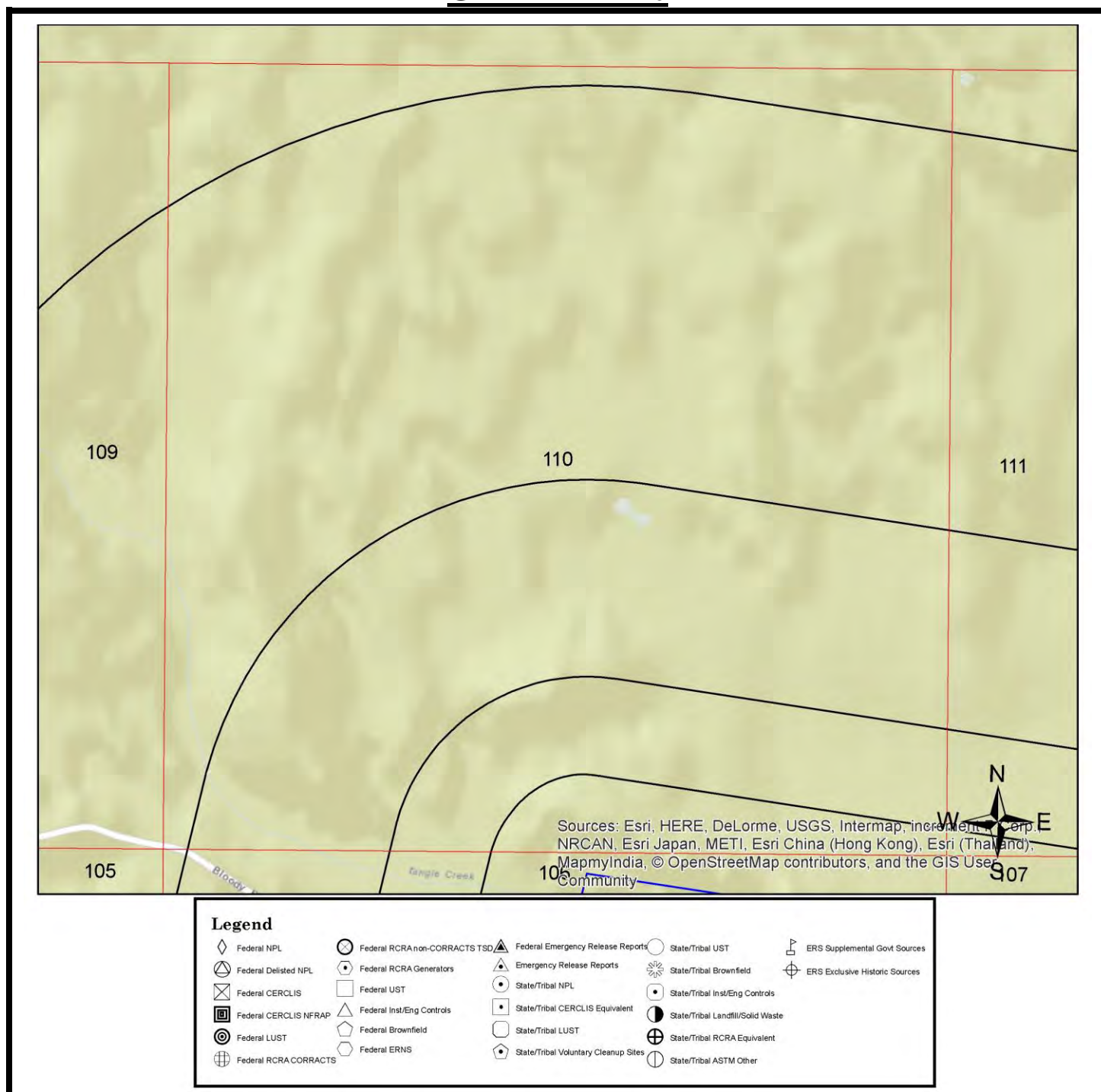
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 109



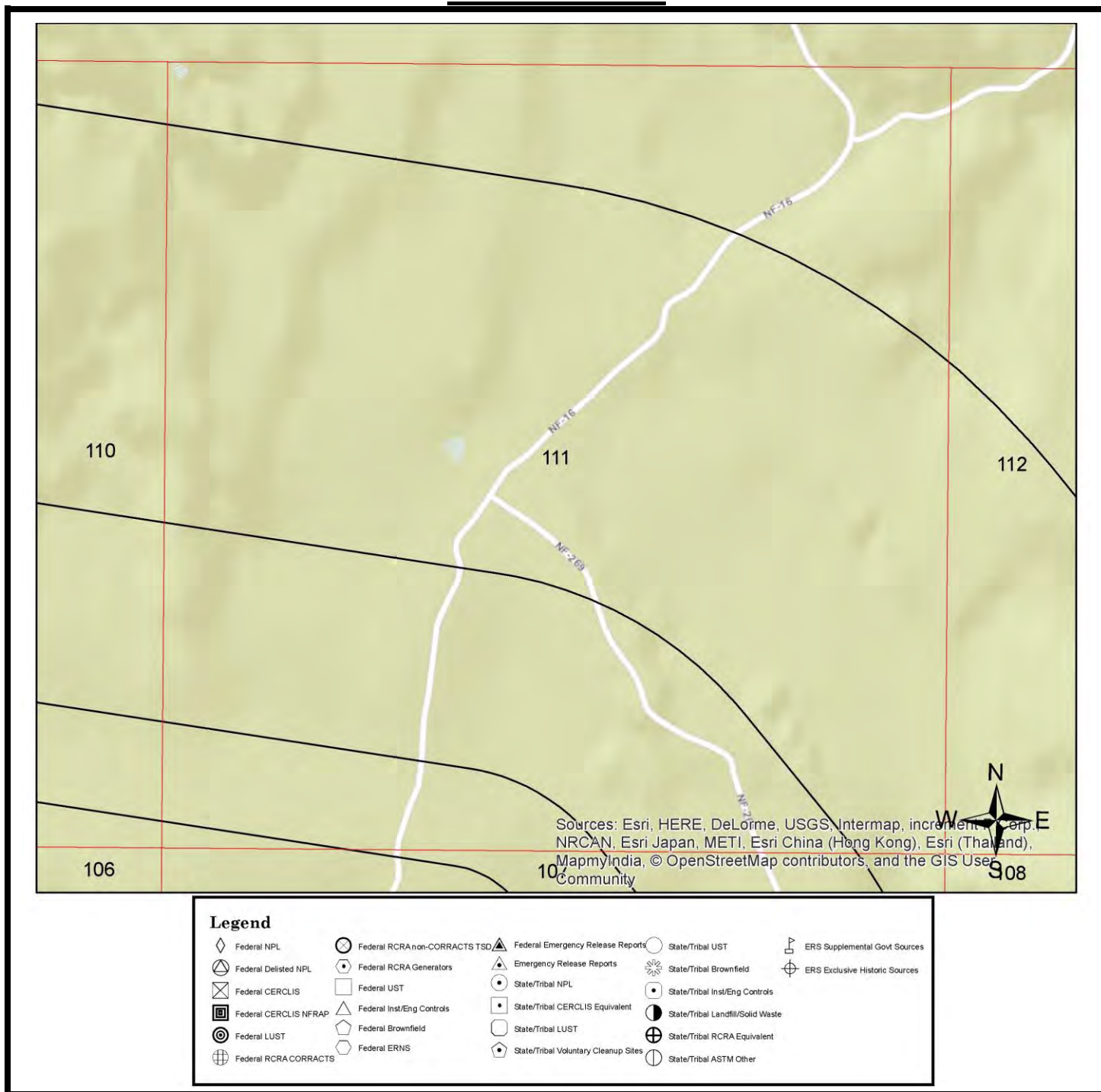
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 110



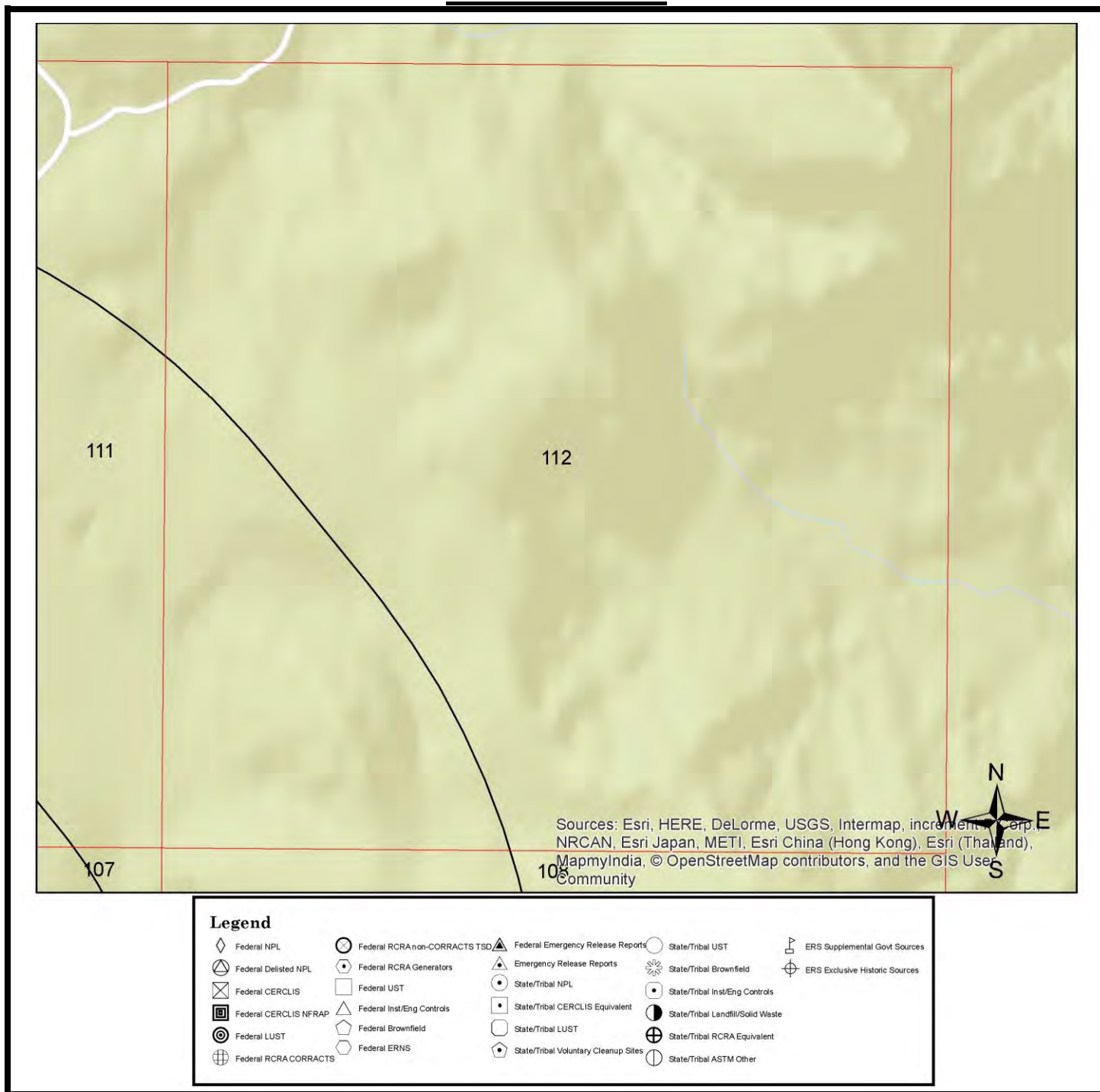
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 111



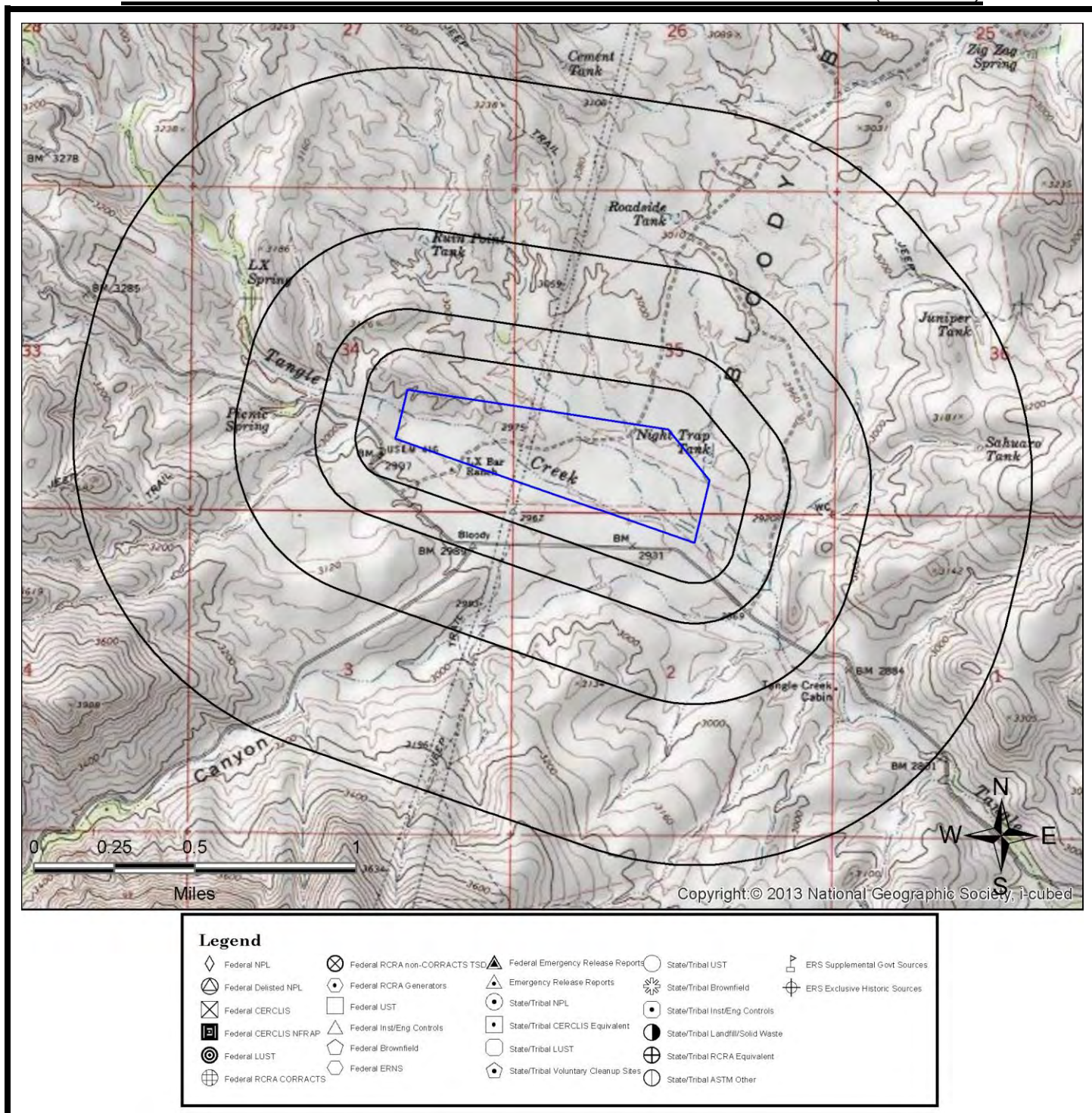
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 112



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.

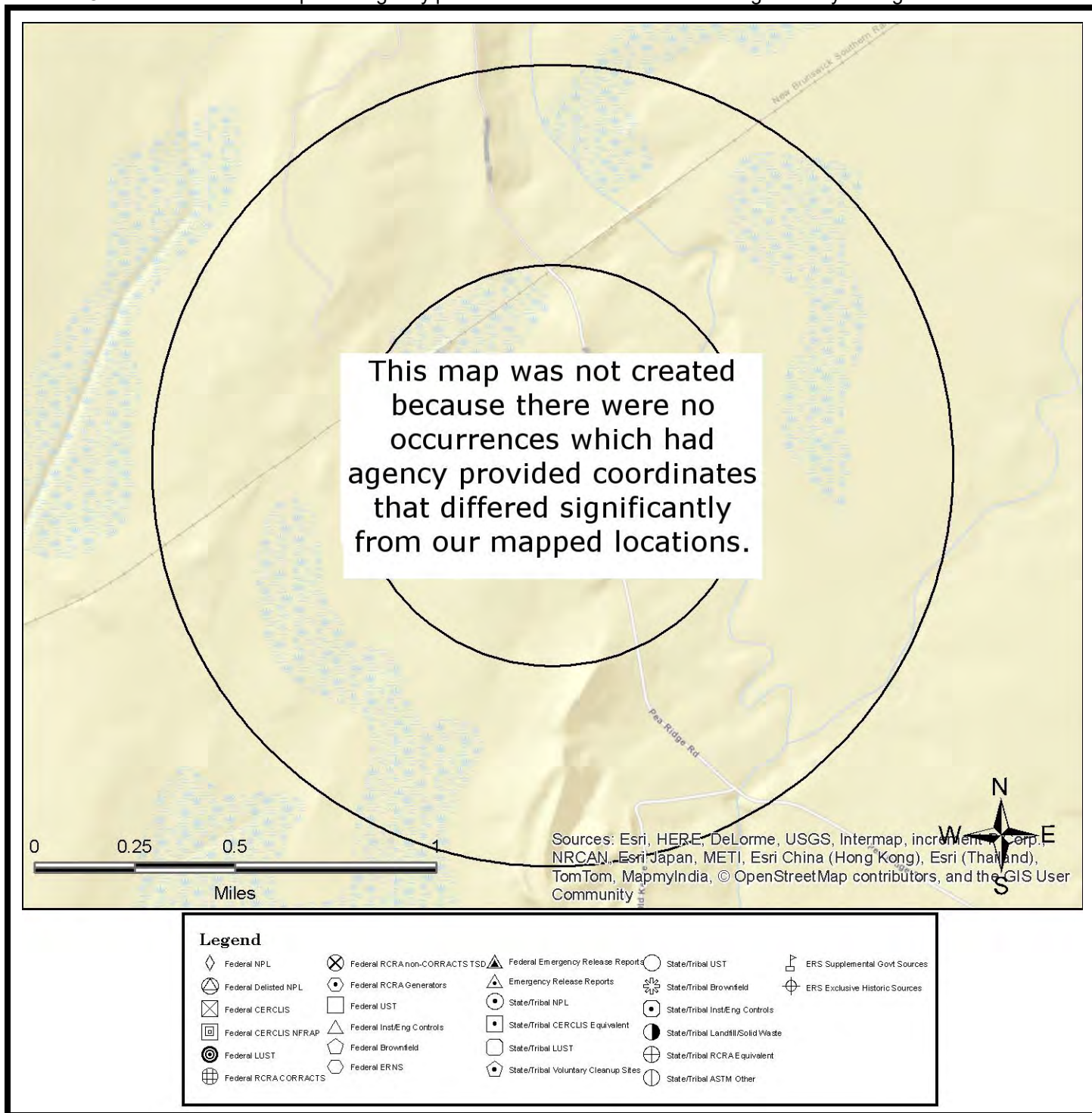
# 1-MILE TOPOGRAPHIC MAP W/OCCURRENCES (MAP3)



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.

## **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.

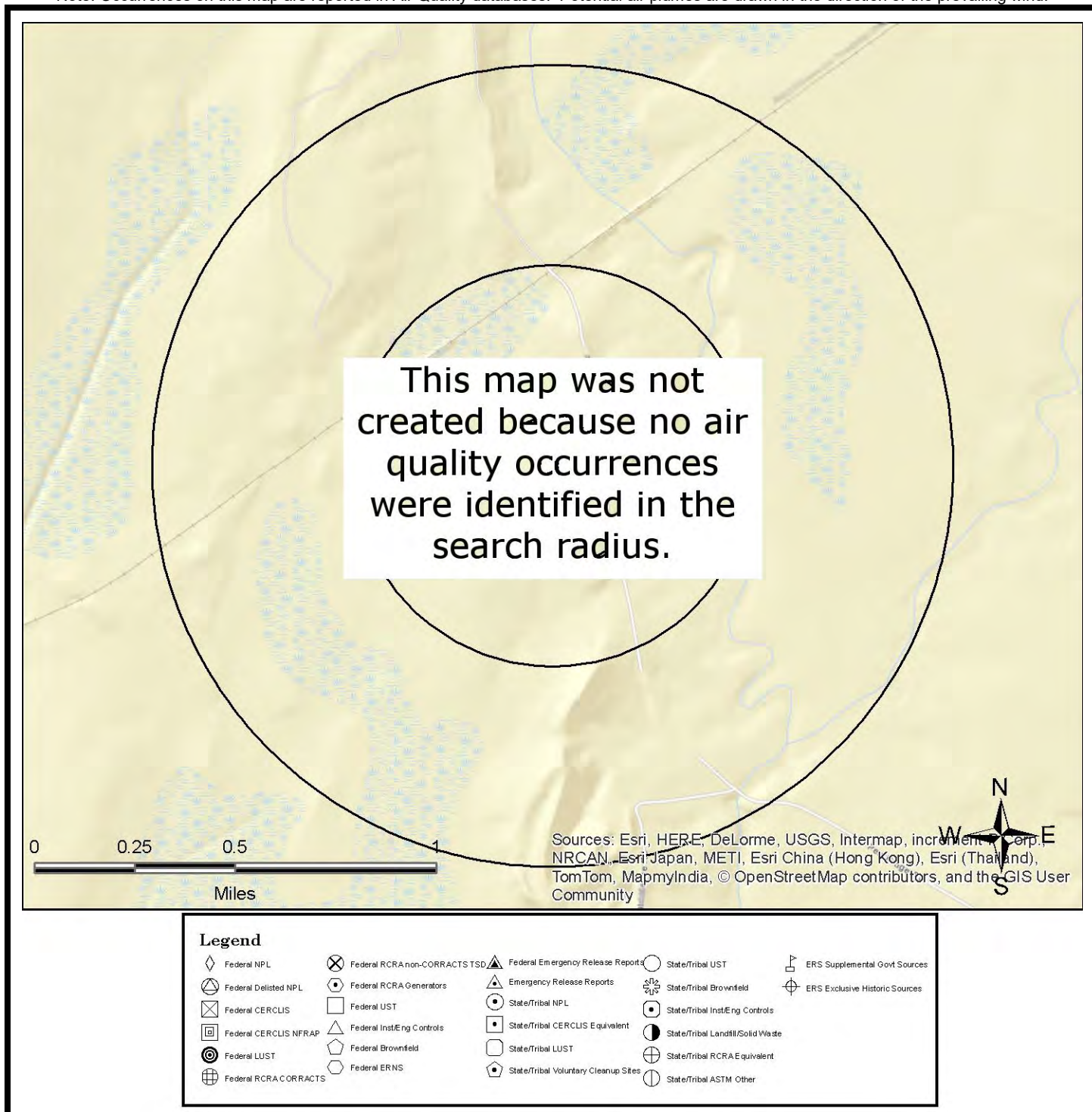
---

## 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.				

## 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 contaminants 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.

## LISTED OCCURRENCE DETAILS

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

---

## **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:** 2/8/2016

**Date last checked:** 2/8/2016

**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**

---

**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:** 9/18/2015

**Date last checked:** 9/18/2015

**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:** 10/19/2015

**Date last checked:** 10/5/2015

**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:** 8/19/2015

**Date last checked:** 8/19/2015

**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.

---

**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:** 3/30/2016

**Date last checked:** 3/1/2016

**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

**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:** 12/30/2015**Date last checked:** 12/1/2015**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:** United 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**

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**Category:** Federal CERCLIS NFRAP

**Description:** This database contains a listing of Archived CERCLIS sites. The Archive designation means that assessment at a site has been completed and EPA has determined no steps will be taken to designate the site as a priority by listing it on the National Priorities List (NPL). No further remedial action is planned for these sites under the Superfund Program.

**Agency:** United States Environmental Protection Agency

**Phone Number:** 8004249346

**Date last updated:** 3/22/2016

**Date last checked:** 2/26/2016

**Distance searched:** 0.5 miles

**Sites:**

None Found

### **CERCLIS-US**

**Comprehensive Environmental Response, Compensation, and Liability Information System**

**Category:** Federal CERCLIS

**Description:** CERCLIS is the Comprehensive Environmental Response, Compensation, and Liability Information System. CERCLIS contains information on hazardous waste sites, potential hazardous waste sites, and remedial activities across the nation, including sites that are on the National Priorities List (NPL) or being considered for the NPL. This database contains a listing of NPL Sites.

**Agency:** United States Environmental Protection Agency

**Phone Number:** 8004249346

**Date last updated:** 3/21/2016

**Date last checked:** 2/26/2016

**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:** 2/8/2016

**Date last checked:** 2/8/2016

**Distance searched:** 0.5 miles

**Sites:**

None Found

### **Close-WQARF-AZ**

**Closed Water Quality Assurance Revolving Fund (WQARF) Sites**

**Category:** State/Tribal NPL

**Description:** The database includes the closed Water Quality Assurance Revolving Fund (WQARF).

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**Agency:** Arizona Department of Environmental Quality

**Phone Number:** 6027714340

**Date last updated:** 12/30/2015

**Date last checked:** 12/1/2015

**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

**Phone Number:** 6027714397

**Date last updated:** 2/17/2016

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**Date last checked:** 2/17/2016

**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:** 3/24/2016

**Date last checked:** 2/29/2016

**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:** 2/8/2016

**Date last checked:** 2/8/2016

**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:**

None Found

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**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:** 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:** 3/21/2016**Date last checked:** 2/26/2016**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:** 12/30/2015**Date last checked:** 12/1/2015**Distance searched:** 1 mile**Sites:**

None Found

**DryCleaners-AZ****Dry Cleaner Facilities****Category:** ERS Supplemental Govt Sources

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**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

**Phone Number:** 6027714340

**Date last updated:** 12/30/2015

**Date last checked:** 12/1/2015

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**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:** 1/27/2016

**Date last checked:** 2/25/2016

**Distance searched:** 0.063 miles

**Sites:**

None Found

### **FA-HW-US**

#### **Financial Assurance, Hazardous Waste**

**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.

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**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

**Date last updated:** 8/3/2015

**Date last checked:** 7/8/2015

**Distance searched:** 0.063 miles

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**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**

**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:** 3/7/2016

**Date last checked:** 3/7/2016

**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

**Distance searched:** 0.25 miles

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**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. This classification covers establishments primarily engaged in the production or feeding of beef cattle, except feedlots. Establishments also included are engaged in the production of cows' milk and other dairy products and in raising dairy heifer replacements. Such farms may process and bottle milk on the farm and sell at wholesale or retail. This category also includes establishments primarily engaged in the production of animal specialties, not elsewhere classified, such as pets, bees, worms, and laboratory animals. Furthermore, this industry includes establishments primarily engaged in the production of cash grains, not elsewhere classified. Primary cash grains in this classification include dry field and seed peas and beans, safflowers, sunflowers, and popcorn.

**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 sites such as: Auto Dealers. This classification is comprised of establishments involved in the retail sale of new automobiles and light trucks. This category also covers establishments primarily engaged in the retail sale of used cars only, with no sales of new automobiles, new automobile tires, batteries, and other automobile parts and accessories.

**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**

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**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. This classification is primarily selling, tires, replacement parts, batteries, and other automotive accessories. In addition, many operate service departments.

**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-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. This industry classification includes establishments engaged in manufacturing alkalies and chlorine. Examples of products include compressed or liquefied chlorine, sodium or potassium hydroxide, sodium bicarbonate, and soda ash (not produced at mines). Manufacturing of industrial gases (organic as well as inorganic) that may be sold in compressed, liquid, or solid form. Industrial gases include acetylene, argon, carbon dioxide, helium, hydrogen, neon, nitrogen, nitrous oxide, and oxygen. Also, manufacturing industrial inorganic chemicals not elsewhere classified. A few examples are alum, ammonium compounds (except for fertilizer), industrial bleaches (sodium or calcium hypochlorite), chemical catalysts, hydrazine, hydrochloric acid, hydrogen peroxide, inorganic sodium compounds, and sulfuric acid. Other chemicals, not elsewhere classified, such as, fatty acids, essential oils, gelatin (except vegetable), sizes, bluing, laundry sours, writing and stamp pad ink, industrial compounds, such as boiler and heat insulating compounds, metal, oil, and water treating compounds, waterproofing compounds, and chemical supplies for foundries. This category also includes manufacturing various resins and plastics for sale to other industries that create plastic sheets, rods, films, and other products. The category also includes synthetic rubber, soap and detergents, rayon and acetate fibers. Furthermore, this category includes industrial and household adhesives, glues, caulking compounds, sealants, and linoleum, tile, rubber cements from vegetable, hardwood and softwood distillation products, natural dyes, tanning materials, and related 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-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. This category includes firms that primarily operate mechanical laundries powered with steam or other means, offer services, such as, dry cleaning or dyeing apparel, household fabrics, cleaning carpets and upholstered furniture, repair, alteration, and storage of clothes for individuals. Also, these establishments may provide laundered or dry-cleaned services to industrial, commercial, and government users. This category also includes establishments that primarily serve as agents for launderers and drycleaners. Furthermore, this category also includes businesses that primarily supply or rent to commercial establishments or household users the following laundered items: uniforms, gowns, and coats used by doctors, nurses, barbers, beauticians, and waitresses; table linens, bed linens, towels and toweling; and similar various items.

**Agency:** Environmental Record Search (ERS)

**Phone Number:** 8003772430

**Date last updated:** Historical Database

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**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

### **Hist-Machine Shop**

#### **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-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

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**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. This classification includes establishments primarily engaged in preparing the dead for burial, conducting funerals, and cremating the dead.

**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

**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. This category covers establishments engaged primarily in producing gasoline, kerosene, distillate fuel oils, residual fuel oils, and lubricants through fractionation or straight distillation of crude oil, re-distillation of unfinished petroleum derivatives, cracking, or other processes. This category also includes establishments primarily engaged in manufacturing packaged fuel, powdered fuel, and other products of petroleum and coal not elsewhere classified, asphalt and tar paving mixtures and paving blocks made of asphalt mixed. Furthermore, this category includes establishments primarily engaged in blending, compounding, and re-refining lubricating oils and greases from purchased mineral, animal, and vegetable materials.

**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. This category is primarily engaged in publishing newspapers or in publishing and printing newspapers, publishing and printing periodicals, publishing and printing books and pamphlets. Other forms of publishing not elsewhere classified, such as, atlases, business service newsletters, calendars, catalogs, directories, guides, maps and map globe covers, paper patterns, race track programs, racing forms, sheet music, shopping news, technical manuals and papers, telephone directories, and yearbooks, as well as the activity of micropublishing. This category also includes, commercial printing of magazines, postage stamps, dollar bills, calendars, fine art prints, wallpaper, catalogs, coupons, directories, newspaper advertising inserts, playing cards, postcards, gift wrap, and product packaging and wrappers, greeting cards, blank books, including checkbooks and books with ruling paper, and loose-leaf binders. Furthermore, these industries are also engaged in typesetting for the trade, including advertising typesetting, hand or machine composition, photocomposition, phototypesetting, computer-controlled typesetting, and typographic composition.

**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

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### **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. This classification is comprised of establishments involved in the retail sale of new and used motor homes, recreational trailers, and campers (pickup coaches), motorcycles, motorboats and other watercraft, marine supplies, and outboard motors.

**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

**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. This category includes gasoline service stations primarily engaged in selling gasoline and lubricating oils. These establishments frequently sell other merchandise, such as tires, batteries, and other automobile parts, or perform minor repair work.

**Agency:** Environmental Record Search (ERS)

**Phone Number:** 8003772430

**Date last updated:** Historical Database

**Date last checked:** N/A

**Distance searched:** 0.25 miles

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**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-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. This category covers establishments primarily engaged in furnishing trucking or transfer services without storage for freight generally weighing more than 100 pounds, in a single municipality, contiguous municipalities, or a municipality and its suburban areas. This category also includes establishments primarily engaged in the delivery of individually addressed letters, parcels, and packages (generally under 100 pounds), except by means of air transportation or by the United States Postal Service. This category covers establishments primarily engaged in furnishing "over-the-road" trucking services or storage services, including household goods either as common carriers or under special or individual contracts or agreements, for freight generally weighing more than 100 pounds. This category also includes establishments primarily engaged in the warehousing and storage of special products, not elsewhere classified, such as household goods, automobiles (dead storage only), furs (for the trade), textiles, oil, chemicals, lumber, whiskey, and goods at foreign trade zones, farm products, perishable goods under refrigeration.

**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

**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

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**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-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 sites such as: Vehicle Parts Dealers. This category includes establishments primarily engaged in the retail sale of new automobile tires, batteries, and other automobile parts and accessories.

**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

**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:** 1/13/2016

**Date last checked:** 3/1/2016

**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

**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:** 2/17/2015

**Date last checked:** 12/2/2015

**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.

**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

**Phone Number:** 8004249346

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**Date last updated:** 2/8/2016  
**Date last checked:** 2/8/2016  
**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:** 3/1/2016

**Date last checked:** 2/10/2016

**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:** 3/1/2016

**Date last checked:** 2/10/2016

**Distance searched:** 0.5 miles

**Sites:**  
None Found

### **Manifest2-NY**

#### **Hazardous Waste Manifest**

**Category:** State/Tribal RCRA Equivalent

**Description:** The New York Department of Environmental Conservation, Hazardous Waste Manifest System lists sites from all over the country, not just New York. To be thorough, ERS has searched the data subset that includes Kansas sites for listings on or near the subject site that are listed in the New York Department of Environmental Conservation, Hazardous Waste Manifest System.

**Agency:** New York State Department of Environmental Conservation

**Phone Number:** 5184028730

**Date last updated:** 12/9/2014

**Date last checked:** 12/5/2014

**Distance searched:** 0.063 miles

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**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 Kansas 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:** 12/16/2014

**Date last checked:** 12/16/2014

**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

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**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****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:** 11/17/2015

**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.

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**Agency:** Environmental Protection Agency

**Phone Number:** 4159478000

**Date last updated:** 12/30/2015

**Date last checked:** 12/1/2015

**Distance searched:** 1 mile

**Sites:**

None Found

### **NPL-US**

#### **National Priorities List**

**Category:** Federal NPL

**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:** 3/21/2016

**Date last checked:** 2/26/2016

**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:** 2/8/2016

**Date last checked:** 2/8/2016

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**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

**Date last updated:** 3/21/2016

**Date last checked:** 3/1/2016

**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:** 3/1/2016

**Date last checked:** 3/1/2016

**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:** This database contains current proposed NPL sites as reported by the EPA.

**Agency:** United States Environmental Protection Agency

**Phone Number:** 8004249346

**Date last updated:** 11/23/2015

**Date last checked:** 2/26/2016

**Distance searched:** 1 mile

**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:** 3/1/2016

**Date last checked:** 3/1/2016

**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:** 2/3/2016

**Date last checked:** 1/29/2016

**Distance searched:** 0.25 miles

**Sites:**

None Found

### **RCRA-COR-US**

#### **Resource Conservation and Recovery Act - Corrective Actions**

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**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:** 2/3/2016

**Date last checked:** 1/29/2016

**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:** 2/3/2016

**Date last checked:** 1/29/2016

**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:** 2/3/2016

**Date last checked:** 1/29/2016

**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**Date last updated:** 2/3/2016**Date last checked:** 1/29/2016**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:** 2/3/2016**Date last checked:** 1/29/2016**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:** 2/17/2016**Date last checked:** 2/17/2016**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:** 2/17/2016

**Date last checked:** 2/17/2016

**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:** 3/12/2015

**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

**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:** 2/25/2016

**Date last checked:** 2/25/2016

**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:** 3/11/2015

**Date last checked:** 3/10/2015

**Distance searched:** 0.25 miles

**Sites:**

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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:** 2/8/2016

**Date last checked:** 2/8/2016

**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:** 9/4/2015

**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

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**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:** 3/2/2016

**Date last checked:** 3/2/2016

**Distance searched:** 0.5 miles

**Sites:**

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**

**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:** 2/25/2016

**Date last checked:** 2/25/2016

**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

**Date last updated:** 2/8/2016

**Date last checked:** 2/8/2016

**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

**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**

#### **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.

**Agency:** Arizona Department of Environmental Quality

**Phone Number:** 6027712300

**Date last updated:** 2/29/2016

**Date last checked:** 2/22/2016

**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:** 2/8/2016

**Date last checked:** 2/8/2016

**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

**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

---

## **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.

ID	Facility Name	Address	Database	Status
No "un-mapped" sites requested.				

---

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RecCheck

Area

Report Results

The Standard for ASTM/AAI Radius Searches

(One Mile Environmental Records Search, Exceeds ASTM 1527/1528 and EPA AII Appropriate Inquiry)

REPORT RESULTS



Site Location:

Tangle Creek

Yavapai County, AZ 86333

(N 34-9-35, W 111-49-1) NAD83

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## EXECUTIVE SUMMARY

### *INFORMATION ON THE REQUESTED LOCATION*

<b>Site Address:</b>	Tangle Creek Yavapai County, AZ 86333
<b>Client Project Name/Number:</b>	Tangle Creek 807.119
<b>Coordinates:</b>	N 34-9-35, W 111-49-1 (NAD 83) 34.1596021214955, -111.816872472796
<b>Date of Report</b>	April 19, 2016
<b>ERS Project Number:</b>	2104666842
<b>Subject Site Listed on the following lists:</b>	Not Listed
<b>Subject Site Listed as Map ID#:</b>	N/A
<b>USGS 7.5 Minute Quad Map:</b>	Bloody Basin
<b>Subject Site Located within a Potential Area of Concern:</b>	No
<b>Township, Section and Range:</b>	Township: 09N Range: 05E Section: 035
<b>Site Elevation: (feet above or below (-) mean sea level)</b>	Approximately 2920 ft near the center of the area.
<b>Flood Zone: (FEMA Q3 Digital Data)</b>	Panel: 04025C3300G, Effective Date: 9/3/2010 Zone A - Areas with a 1% annual chance of flooding and a 26% chance of flooding over the life of a 30-year mortgage. Because detailed analyses are not performed for such areas; no depths or base flood elevations are shown within these zones. Zone X - Area of Minimal Flood Hazard 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.
<b>Fire Insurance Map Coverage:</b>	No
<b>Radon Information:</b>	EPA Radon Zone: 2  (Predicted avg for county: 2 to 4 pCi/L)
<b>Search Radius Expansion Size: (In Miles)</b>	0

<b>Soil Type:</b> <b>(USDA Soil Survey Geographic Database) (SSURGO)</b>	TULOSO 15% to 35% slopes, 60% of total TINAJA 3% to 15% slopes, 40% of total
<b>Zip Codes Searched for</b> <b>"Un-Mappable" Sites:</b>	Not Researched
<b>Occurrence Count:</b>	0

---

## **SUMMARY OF OCCURRENCES**

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

## 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
DOD-AZ	No	0
EpaNPL-AZ	No	0
WQARF-AZ	No	0
NPL-R9-US	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

	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
		ERNS-US	0	None Listed
Federal ERNS list	Property Only / 0.0625			
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
		LUST-Closed-AZ	0	None Listed
		LUST-Open-AZ	0	None Listed
State and Tribal Leaking Storage Tank Lists	0.5 / 0.5	Tribal-LUST-Closed-Reg9	0	None Listed
		Tribal-LUST-Open-Reg9	0	None Listed
		AST2-AZ	0	None Listed
		AST-AZ	0	None Listed
		FEMA-UST-US	0	None Listed
State and Tribal Registered Storage Tank Lists	Property and adjoining properties / 0.25	Tribal-UST-Reg9	0	None Listed
		UST-AZ	0	None Listed
		Controls-AZ	0	None Listed
		Tribal-VCP-US	0	None Listed
State and Tribal Inst/Eng Control Registries	Property Only / 0.5			
State and Tribal Voluntary Cleanup Sites	0.5 / 0.5	VCP-Closed-AZ	0	None Listed
		VCP-Open-AZ	0	None Listed
		BF-Closed-AZ	0	None Listed
State and Tribal Brownfield Sites	0.5 / 0.5	BF-Open-AZ	0	None Listed
		BF-US	0	None Listed
		Tribal-BF-US	0	None Listed

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-NY	0.0625	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

### STATE ASTM/AAI DATABASES

DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
SS-AZ	0.5	0	0	0	0	-	0
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

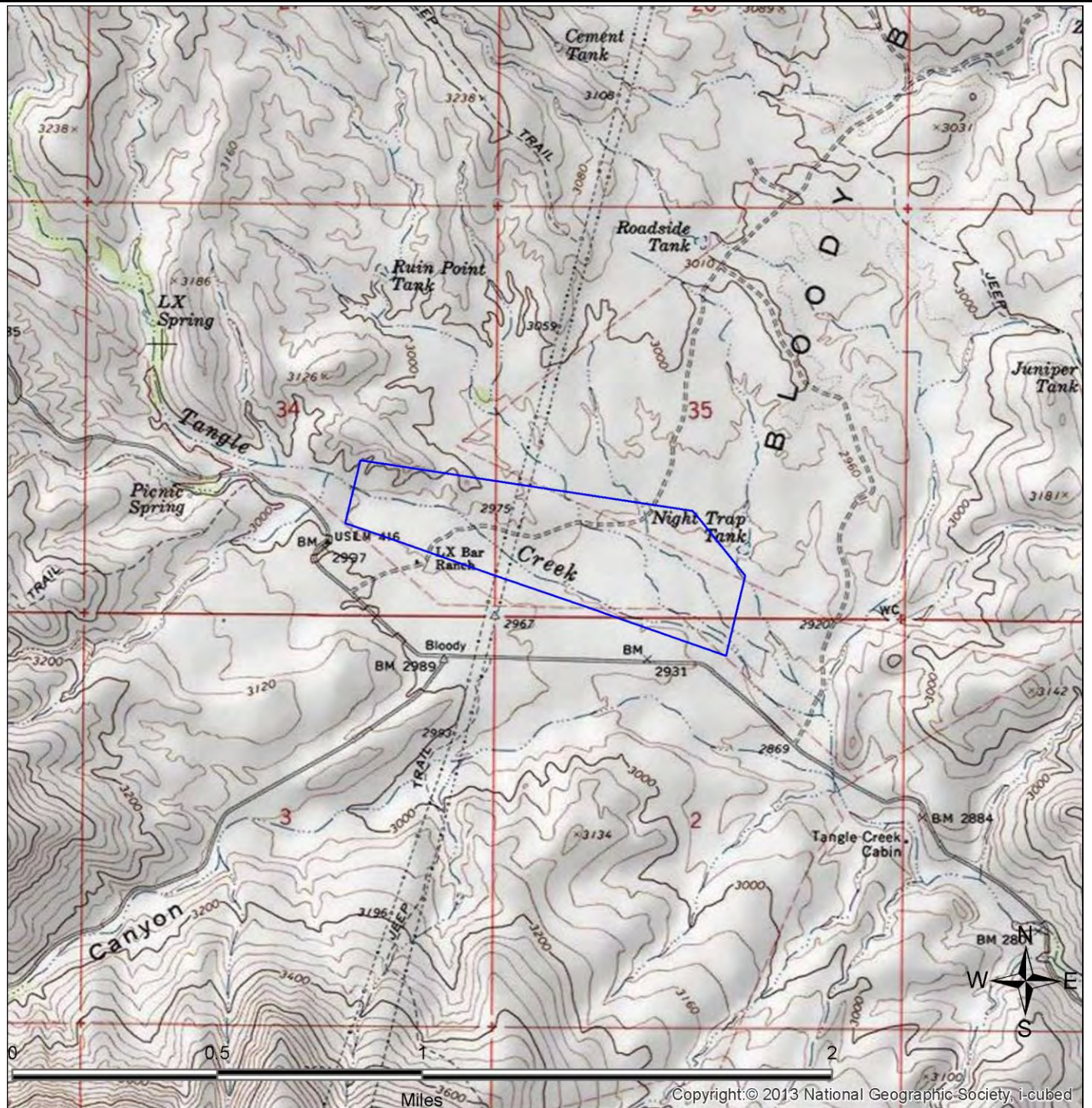
DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
Air-AZ	0.25	0	0	0	-	-	0
Allfac-AZ	0.25	0	0	0	-	-	0
BioFuel-US	0.25	0	0	0	-	-	0
CDL-AZ	0.0625	0	0	-	-	-	0
CDL-US	0.0625	0	0	-	-	-	0
Coal-Ash-AZ	0.5	0	0	0	0	-	0
Coal-Ash-Dams-US	0.5	0	0	0	0	-	0
Dams-AZ	0.25	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-FIFRA-US	0.25	0	0	0	-	-	0
HIST-MLTS-US	0.25	0	0	0	-	-	0
Hist-US	0.0625	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
Tribal-Air-US	0.25	0	0	0	-	-	0
TRIS2000-US	0.0625	0	0	-	-	-	0

### SUPPLEMENTAL DATABASES

DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
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-Cleaners	0.25	0	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-Mortuaries	0.0625	0	0	-	-	-	0
Hist-Paint-Stores	0.0625	0	0	-	-	-	0
Hist-Petroleum	0.0625	0	0	-	-	-	0
Hist-Printers	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-Transportation	0.0625	0	0	-	-	-	0
Hist-Trucking	0.0625	0	0	-	-	-	0
Hist-Vehicle-Parts	0.0625	0	0	-	-	-	0



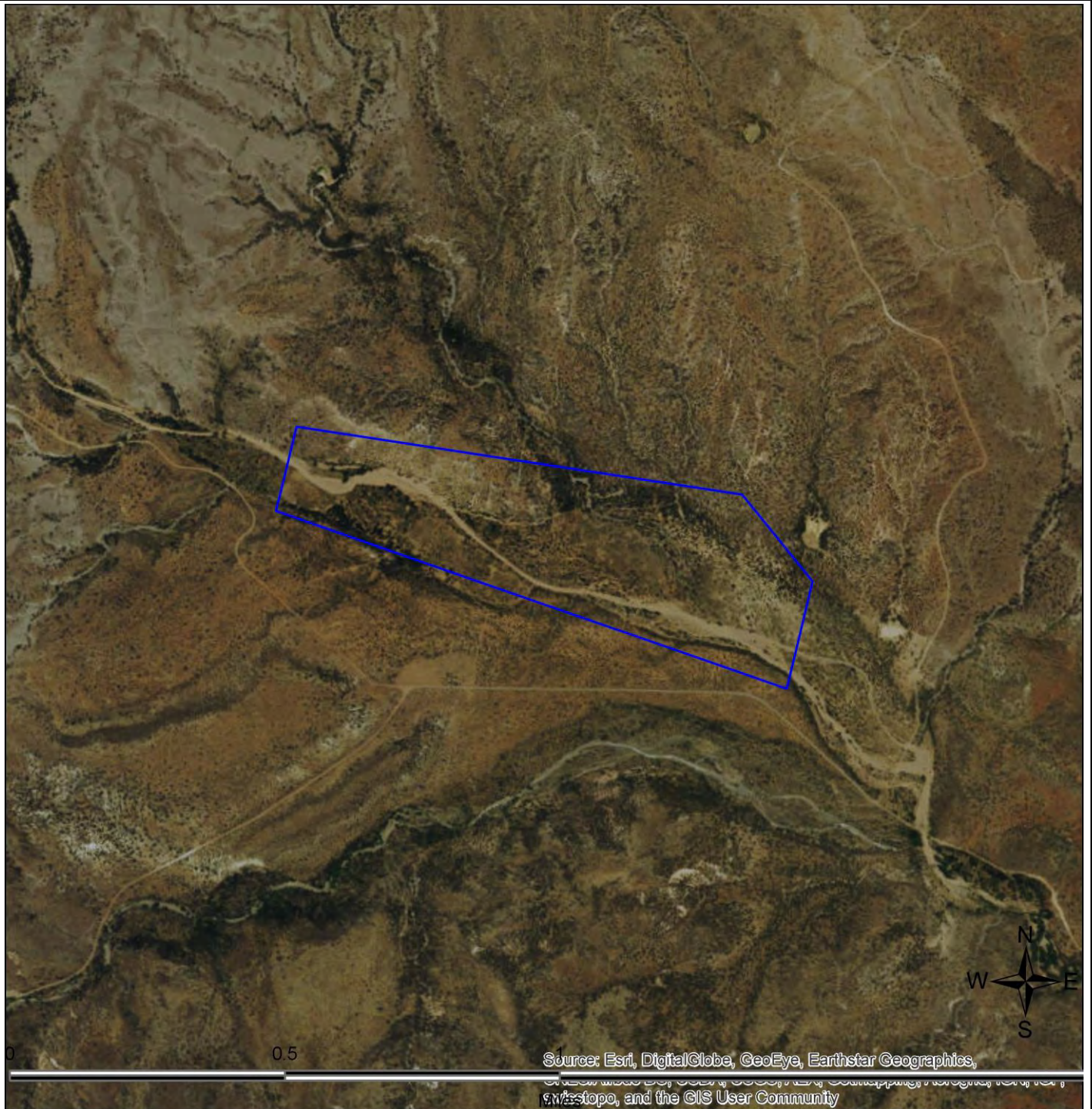
## **SITE LOCATION TOPOGRAPHIC MAP**

U.S. Geological Survey, Bloody Basin Quadrangle, 7.5 Minute Series

WestLand Resources

Tangle Creek  
Yavapai County, AZ 86333

FIGURE: 1  
JOB: 807.119  
DATE: 4/19/2016



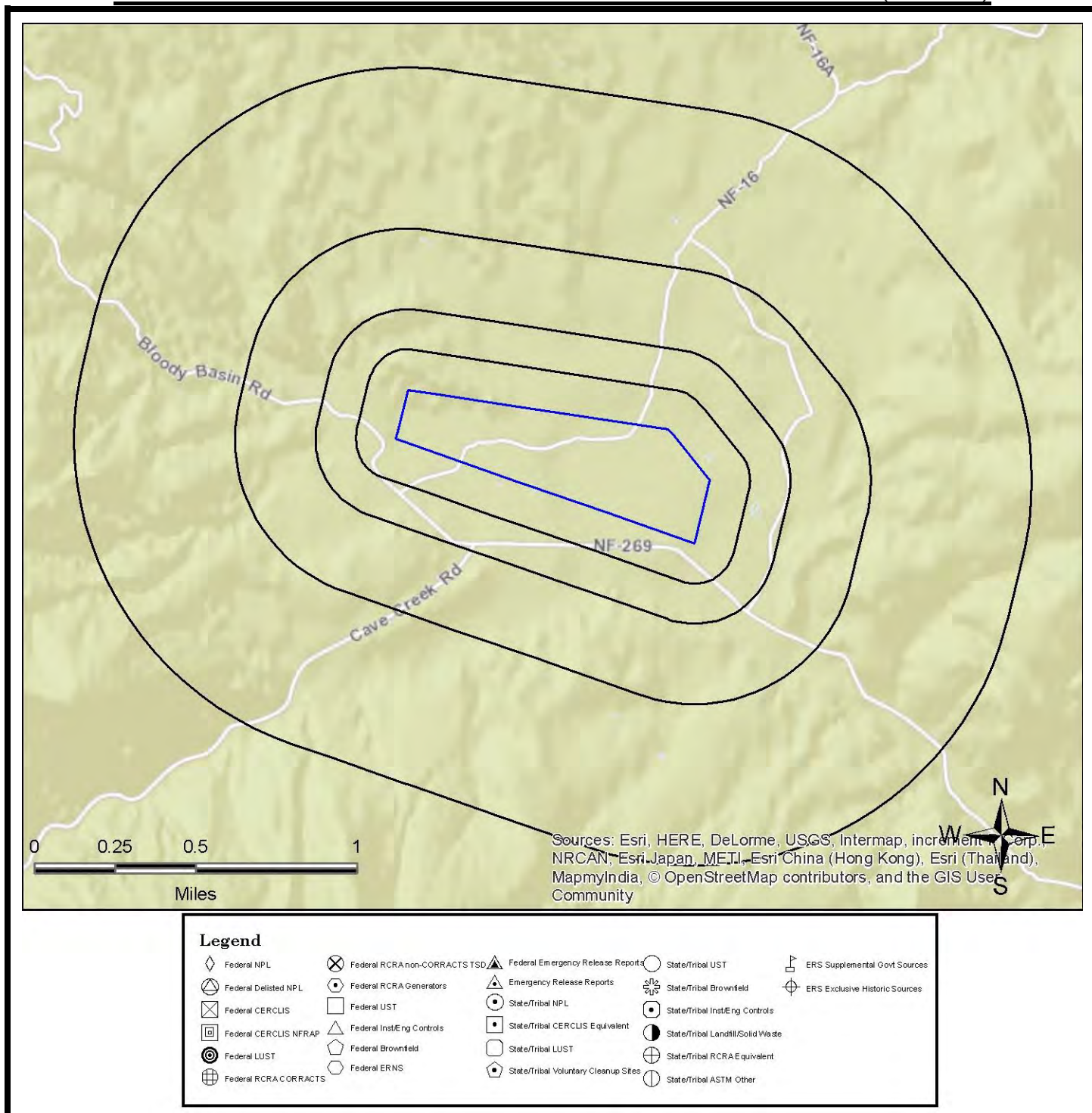
### **SITE LOCATION MAP**

WestLand Resources

Tangle Creek  
Yavapai County, AZ 86333

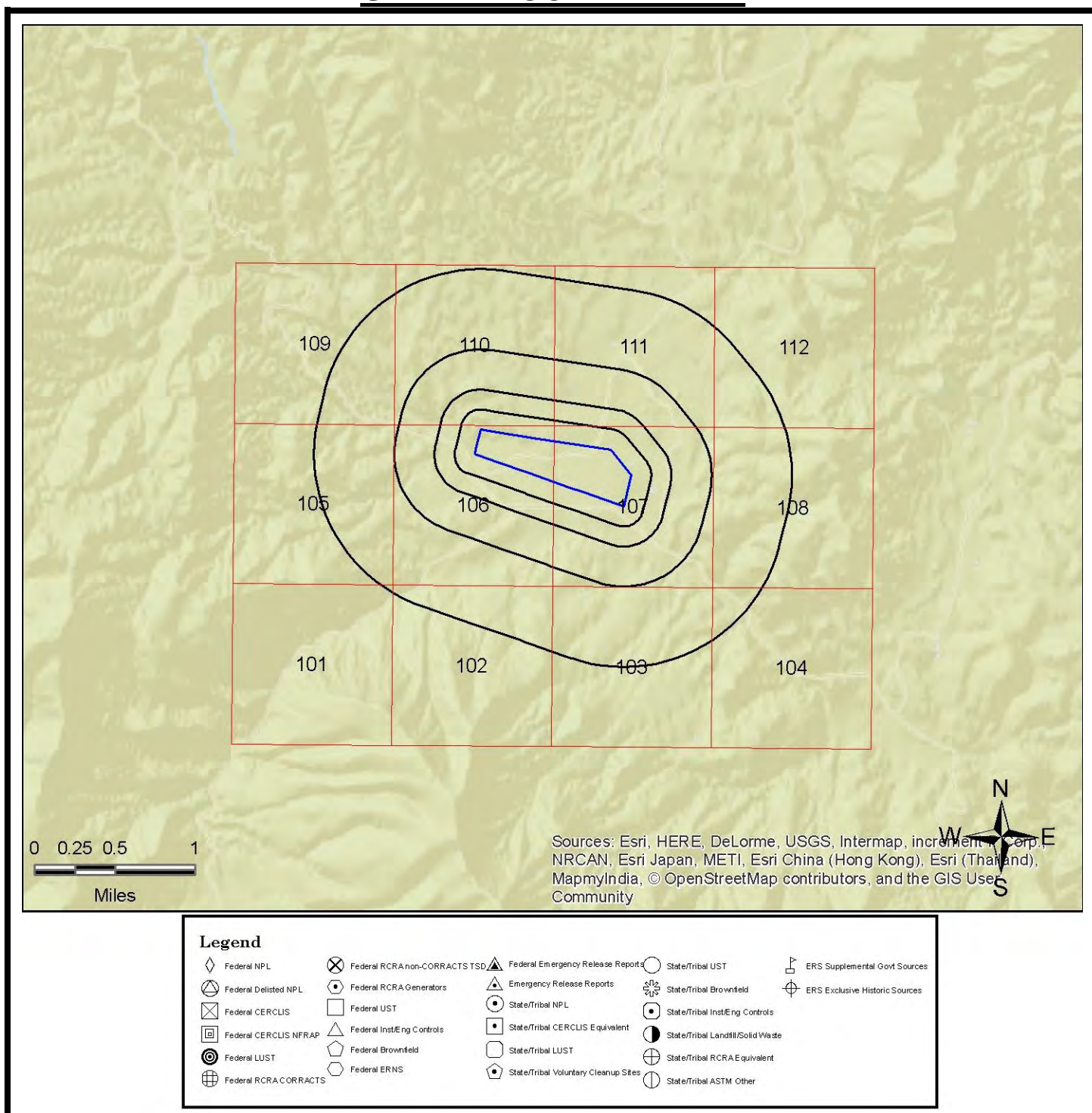
FIGURE: 2  
JOB: 807.119  
DATE: 4/19/2016

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



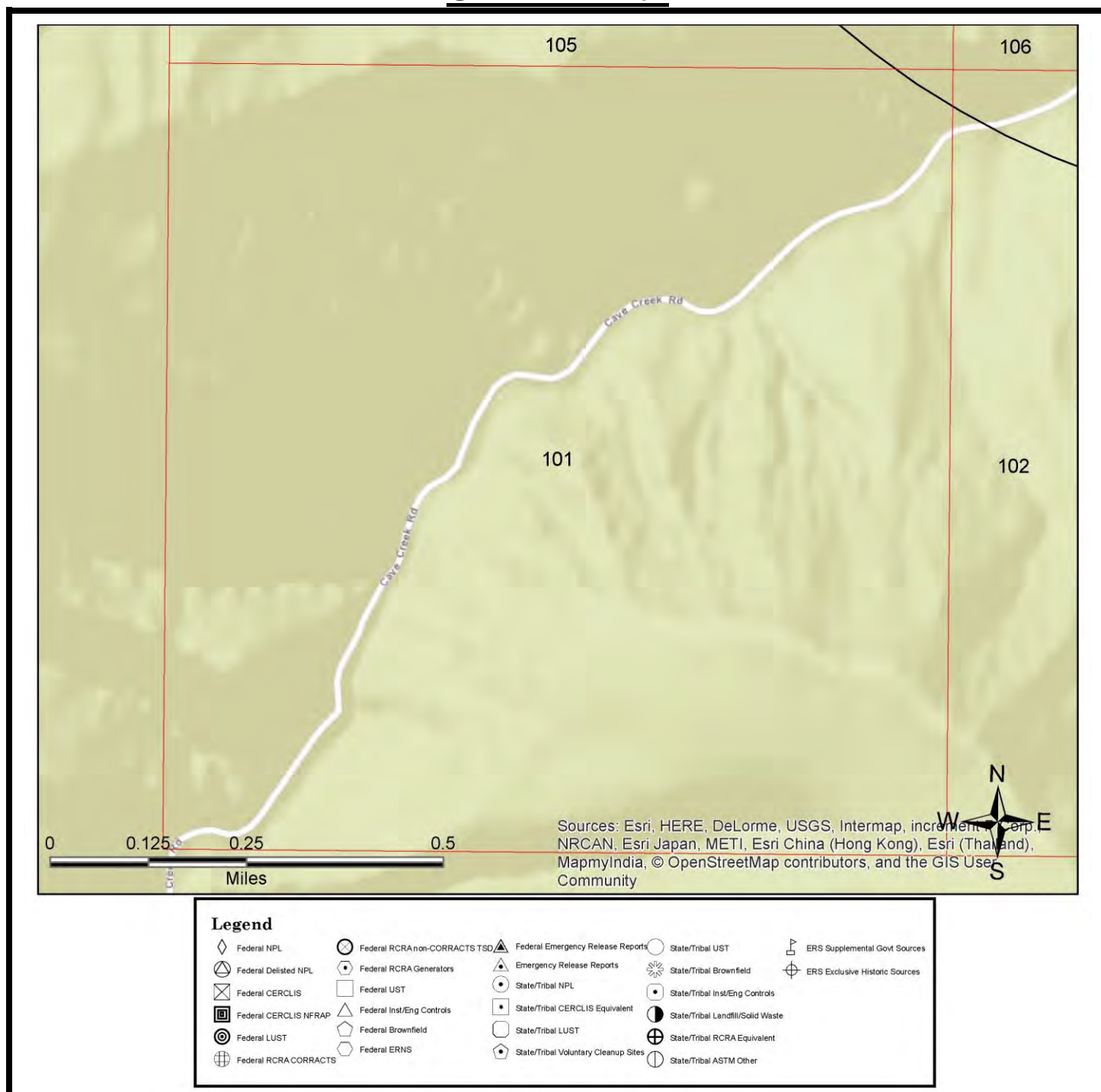
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID LAYOUT MAP KEY



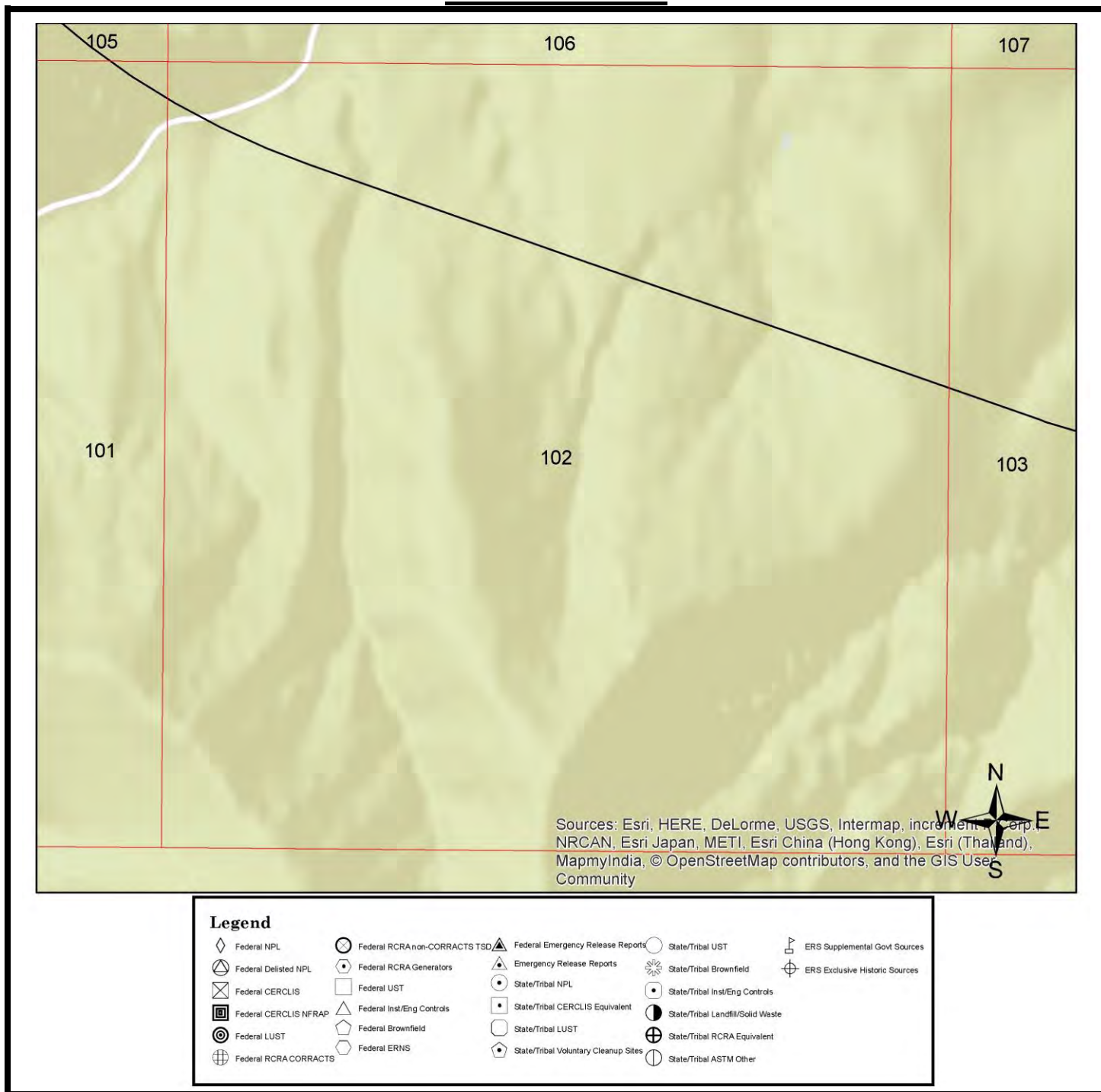
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 101



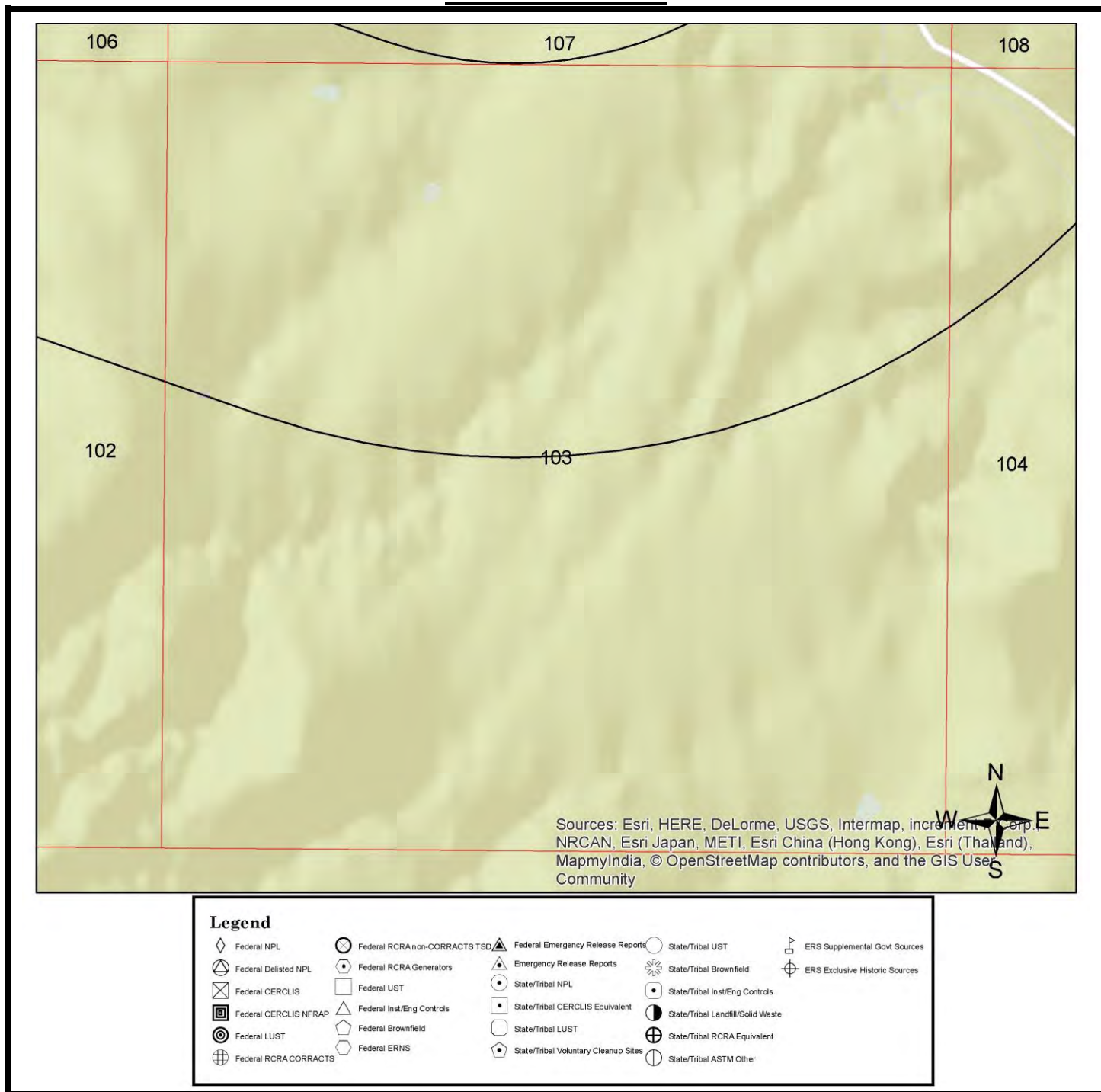
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 102



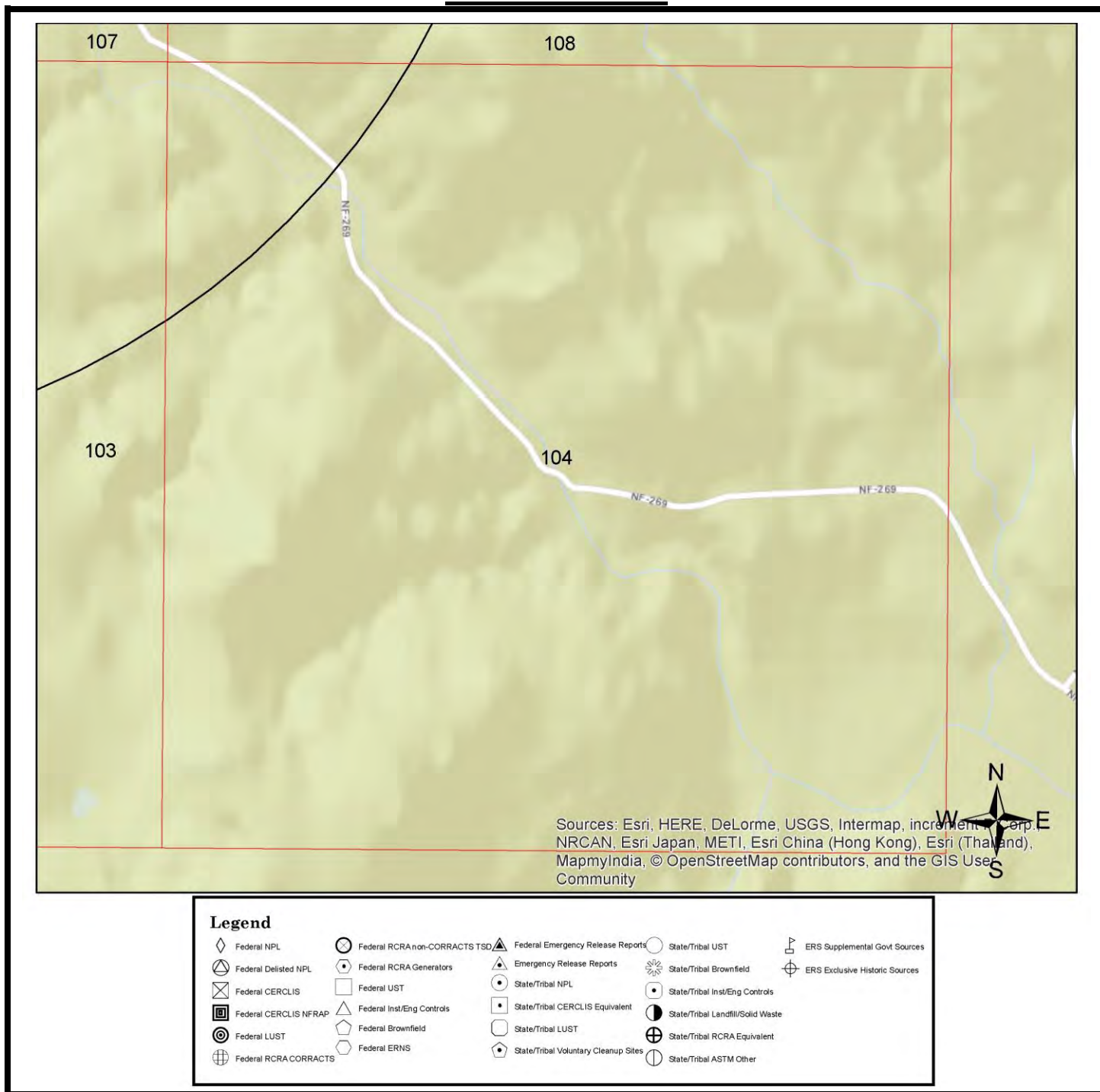
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 103



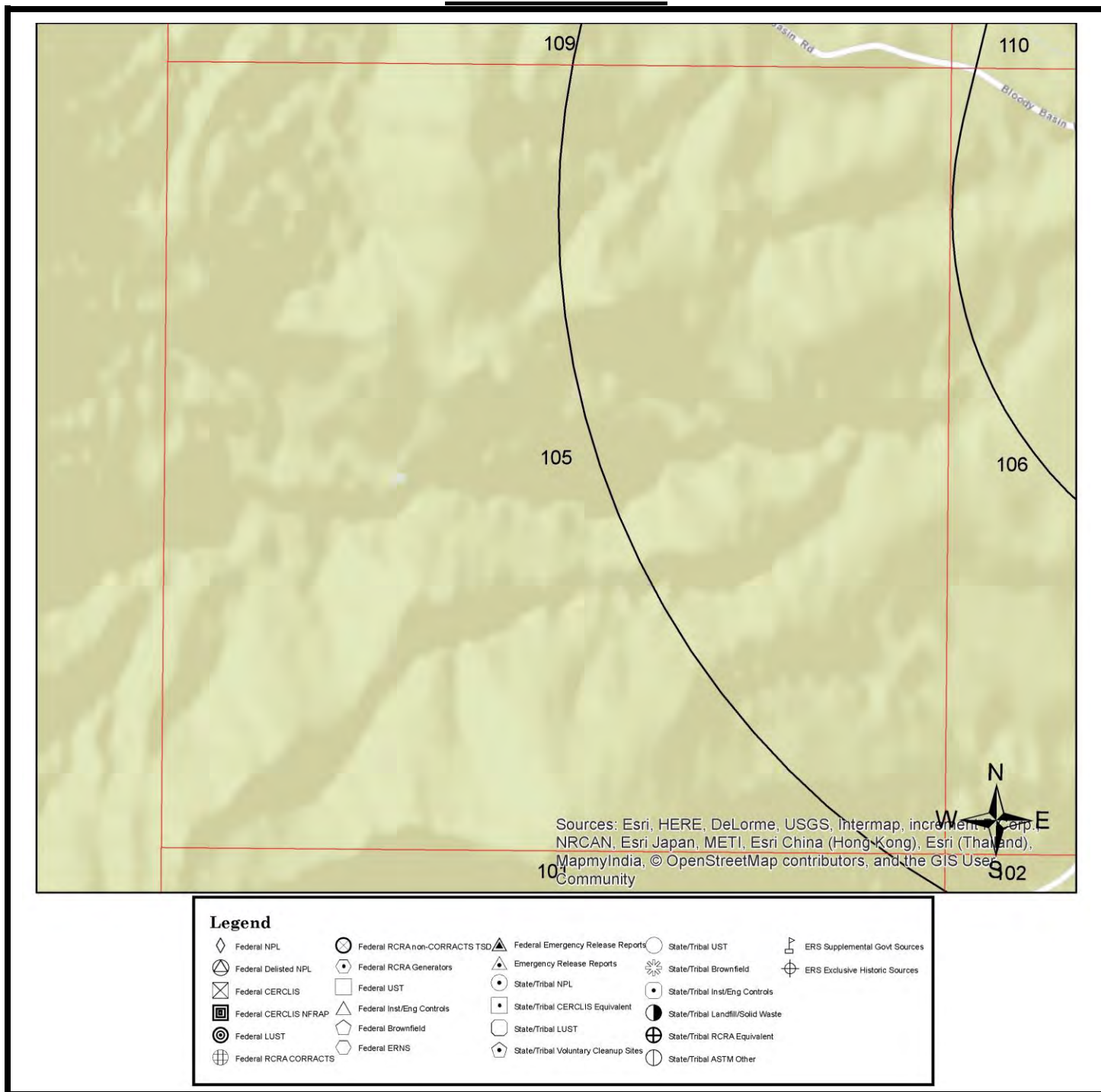
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 104



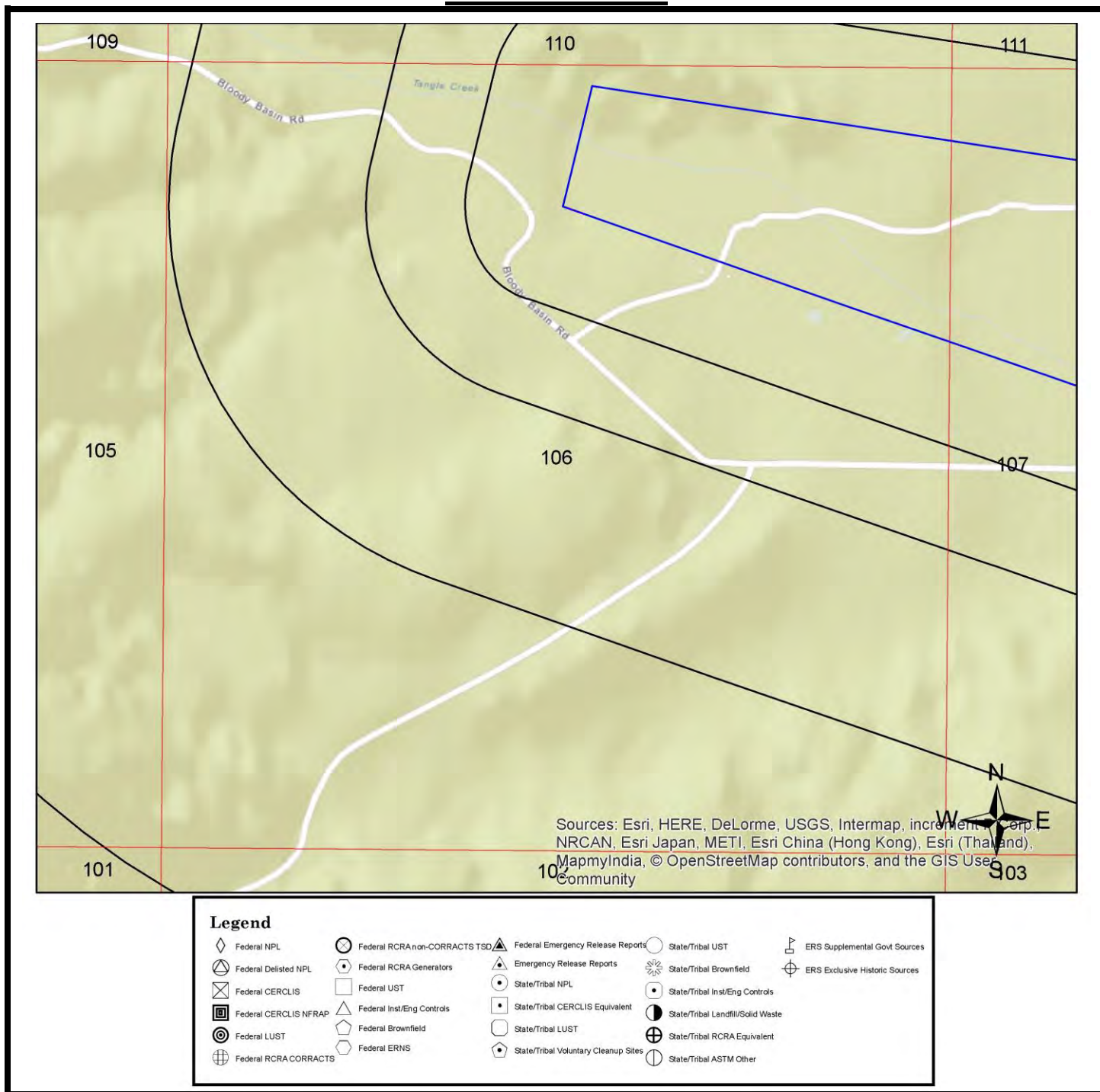
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 105



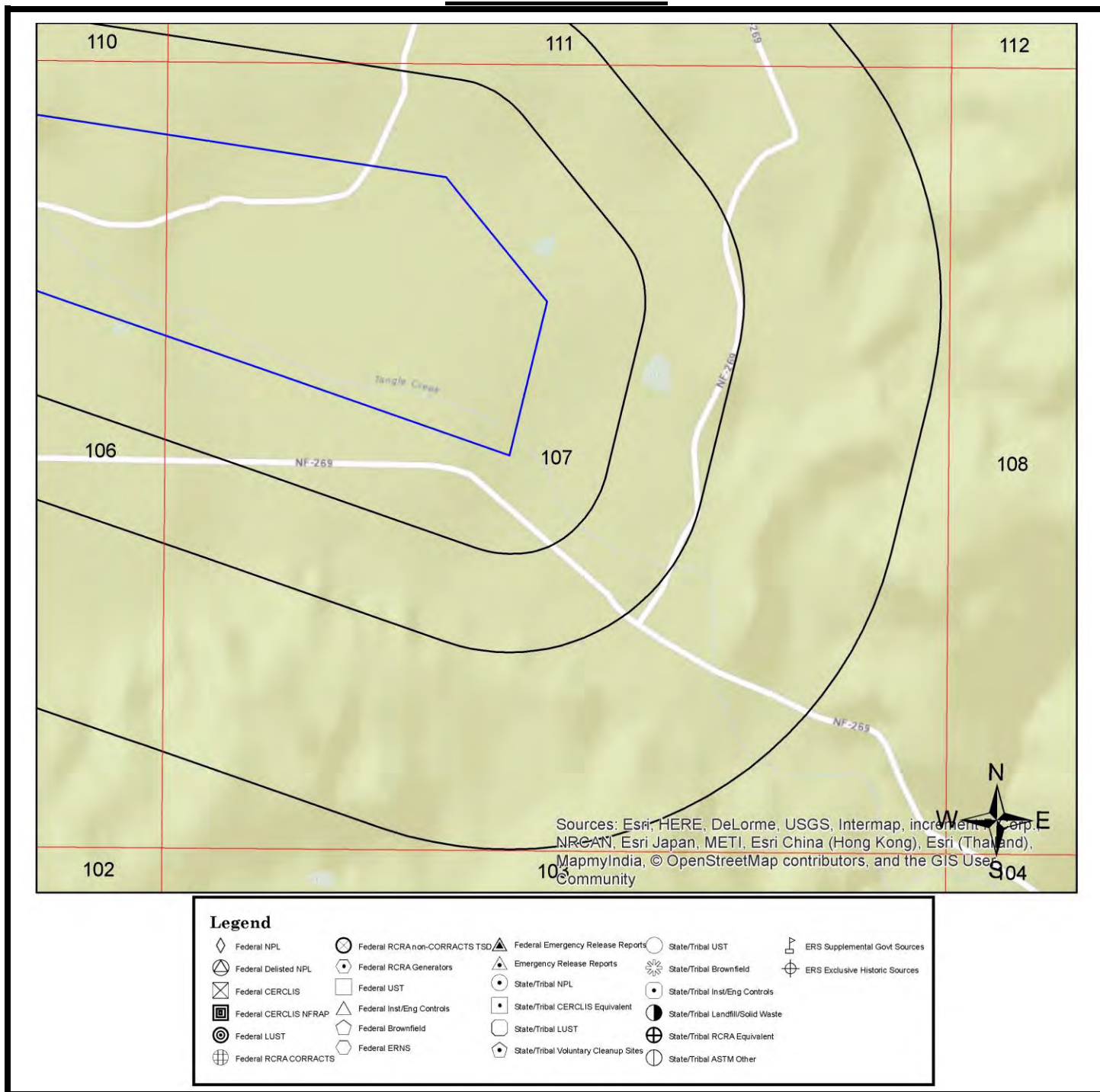
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 106



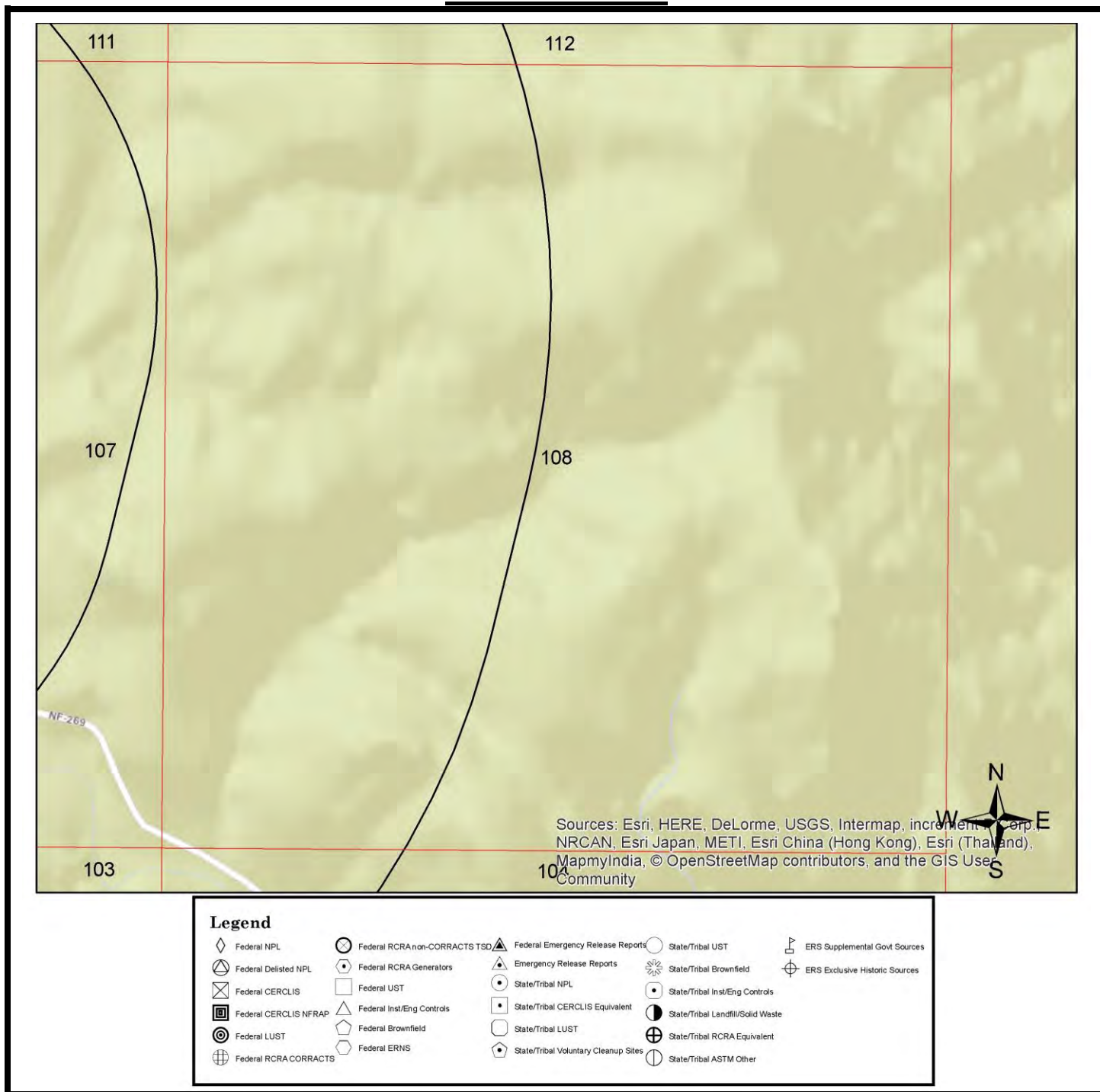
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 107



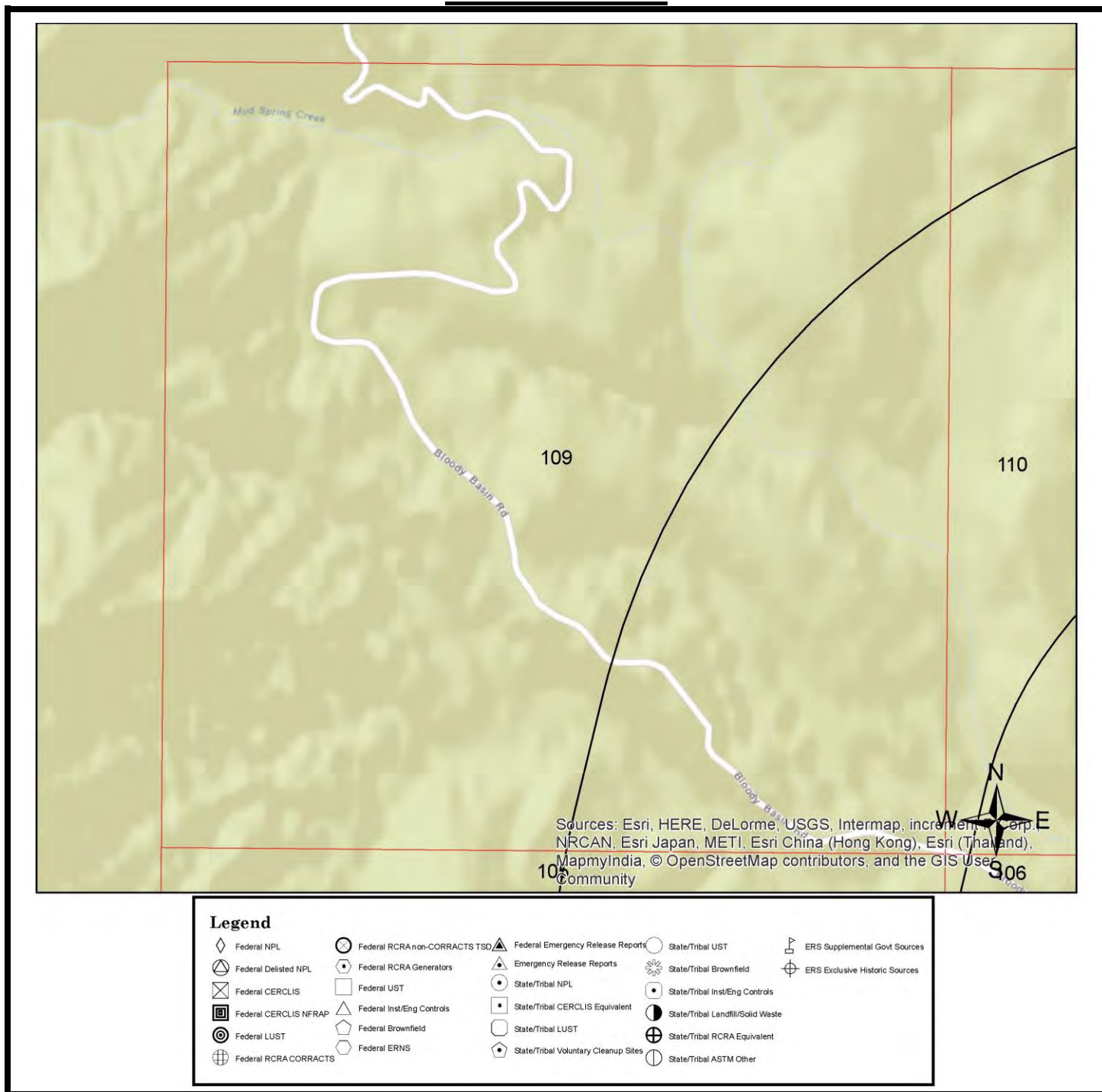
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 108



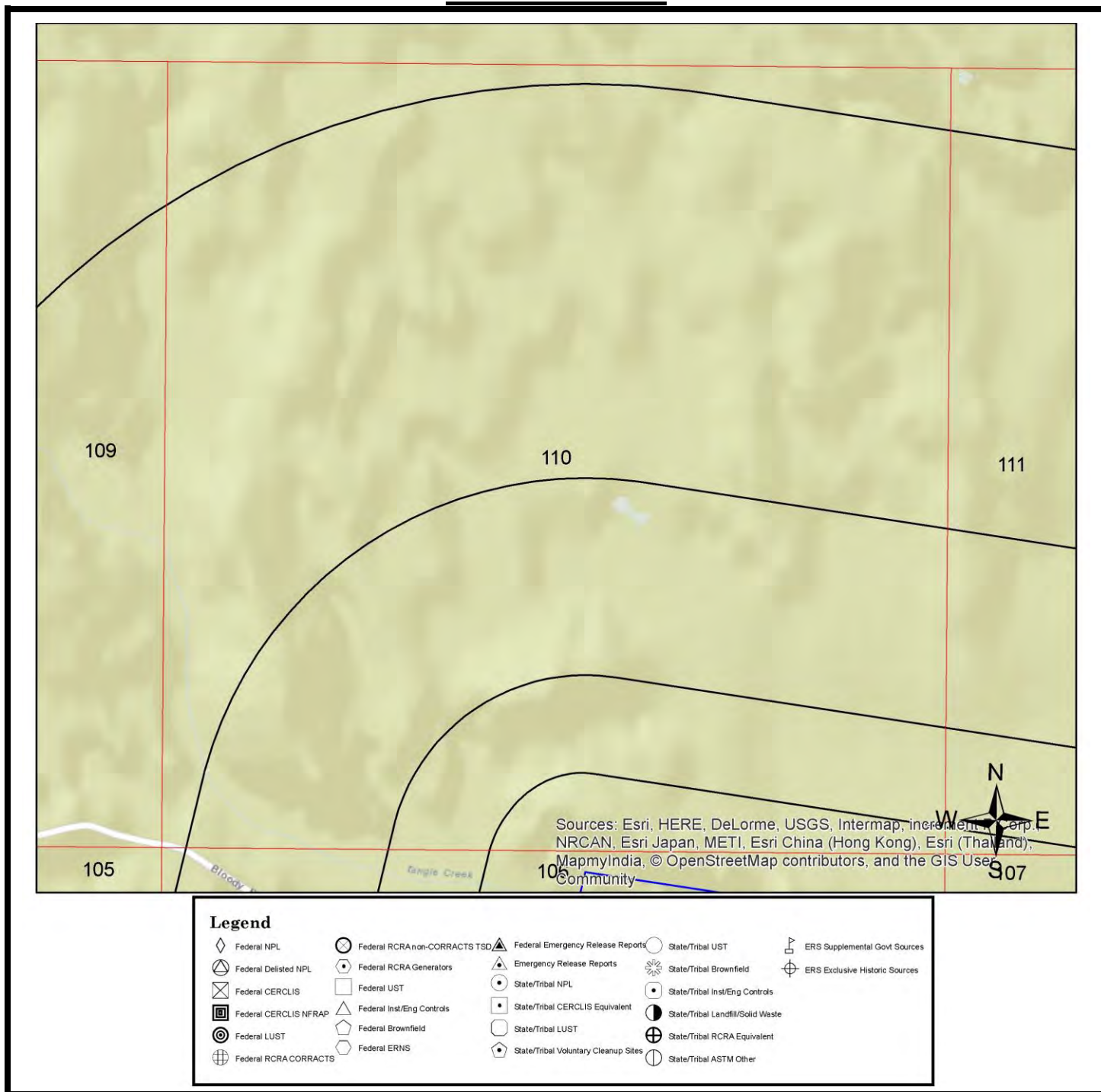
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 109



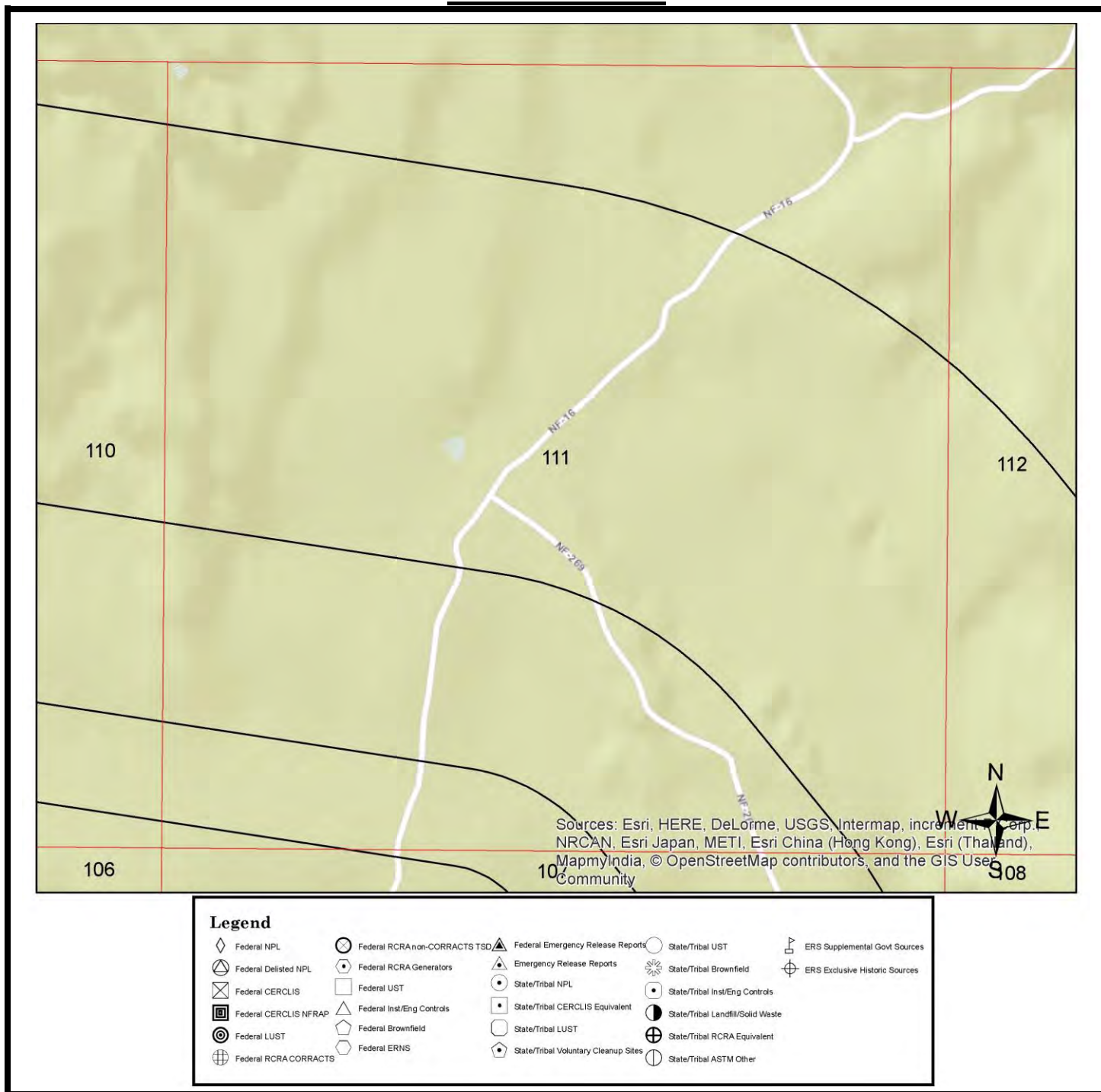
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 110



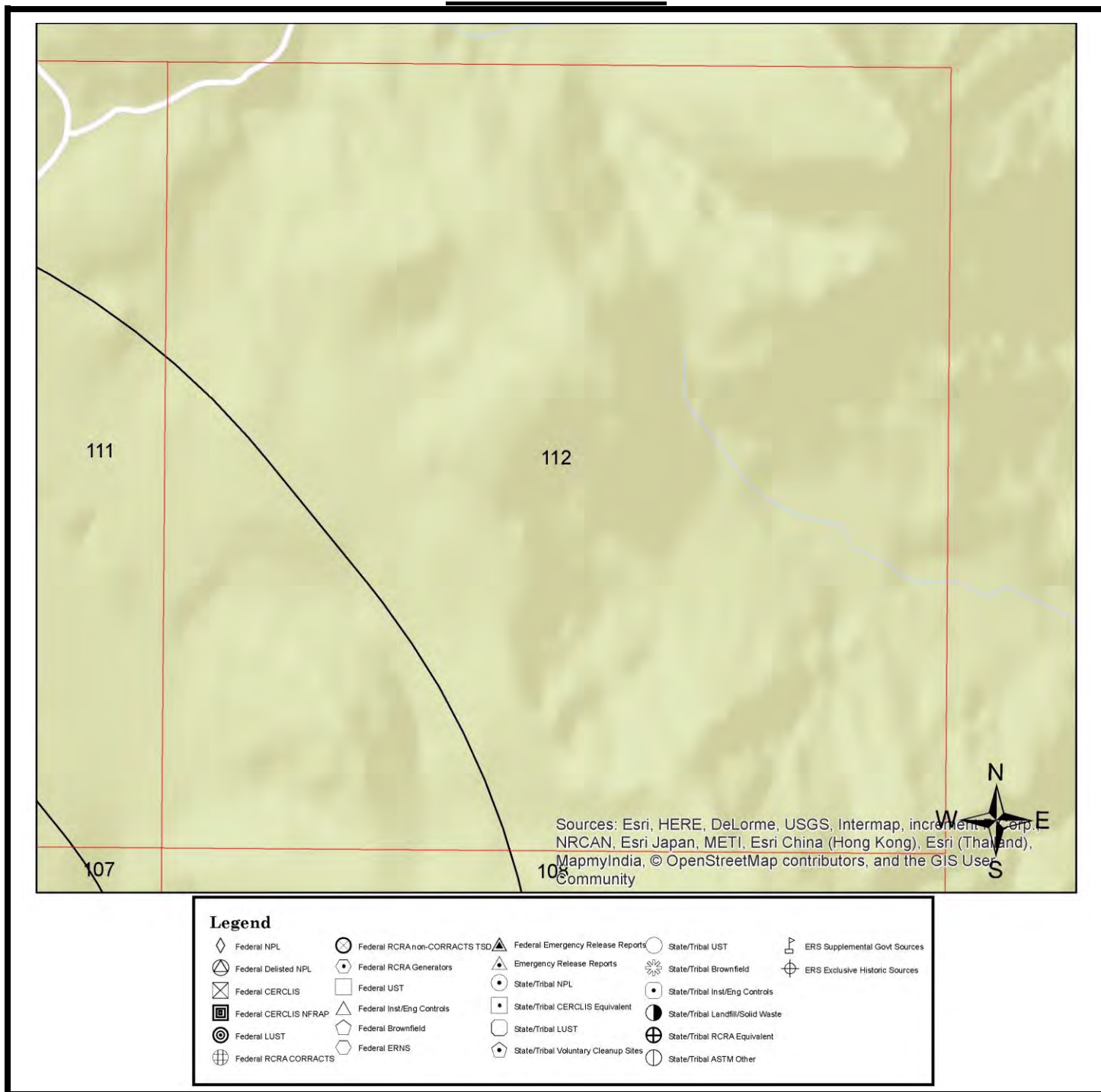
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 111



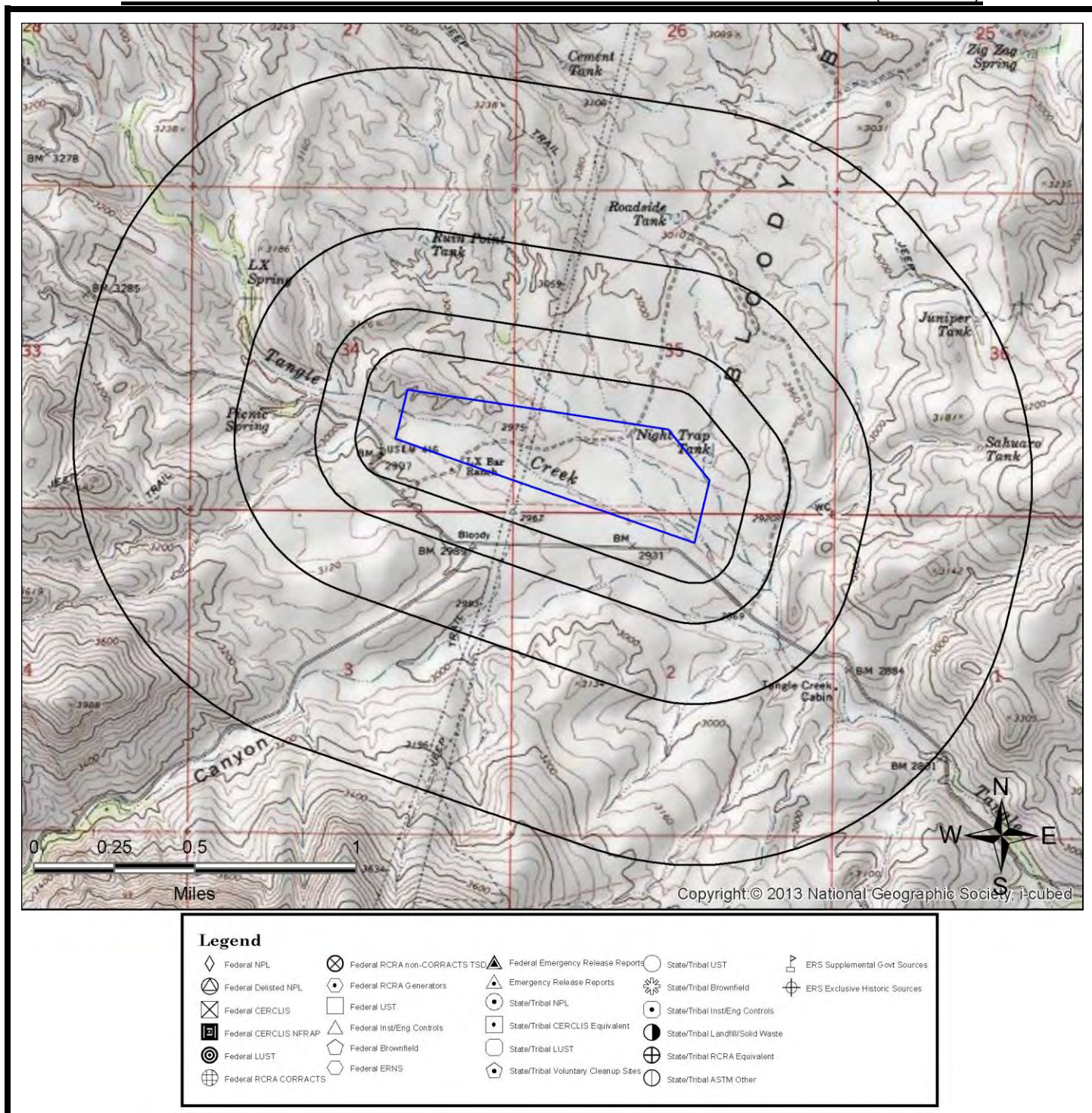
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **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.

## GRID MAP 112



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.

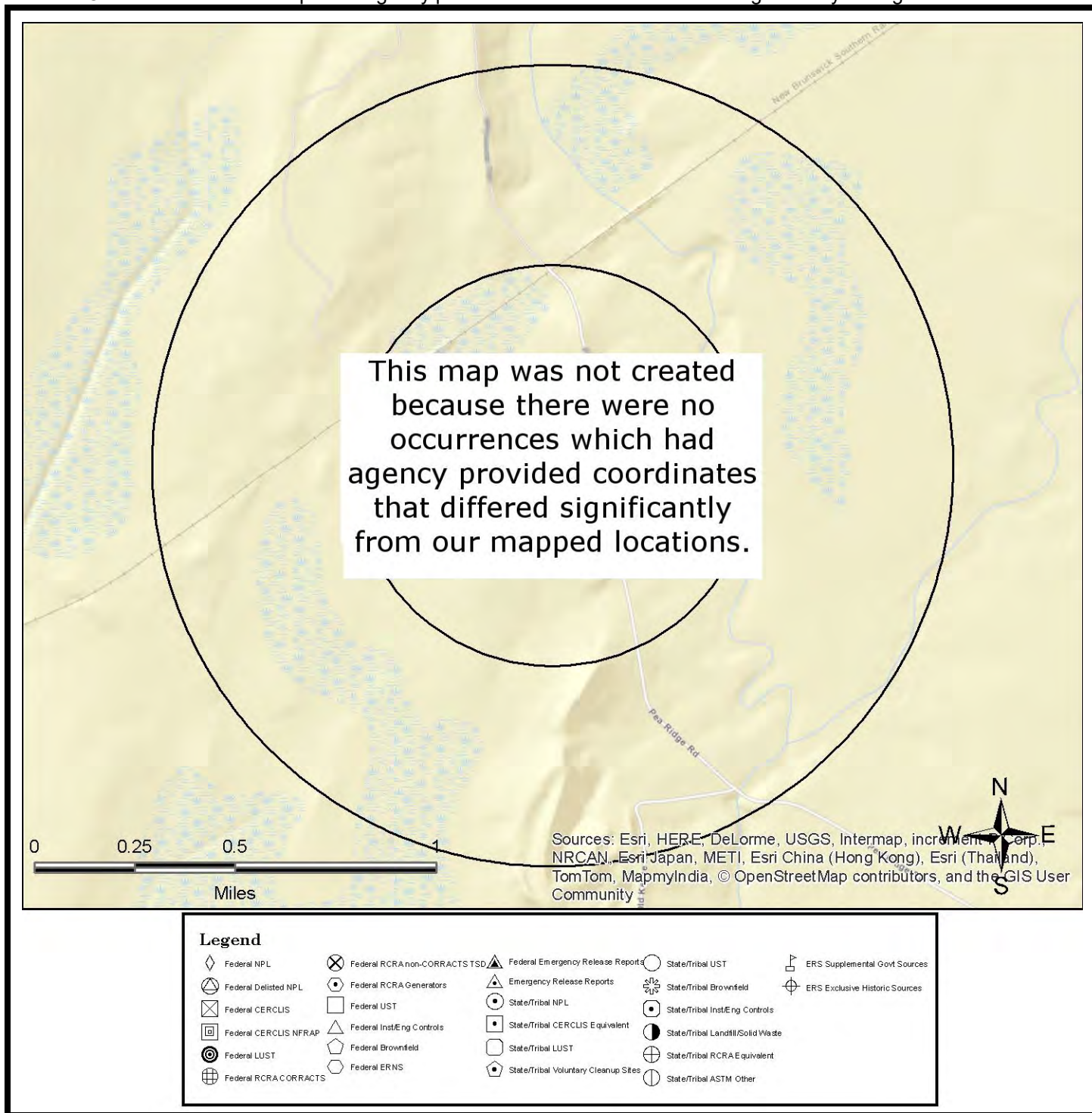
# 1-MILE TOPOGRAPHIC MAP W/OCCURRENCES (MAP3)



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.

## **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.

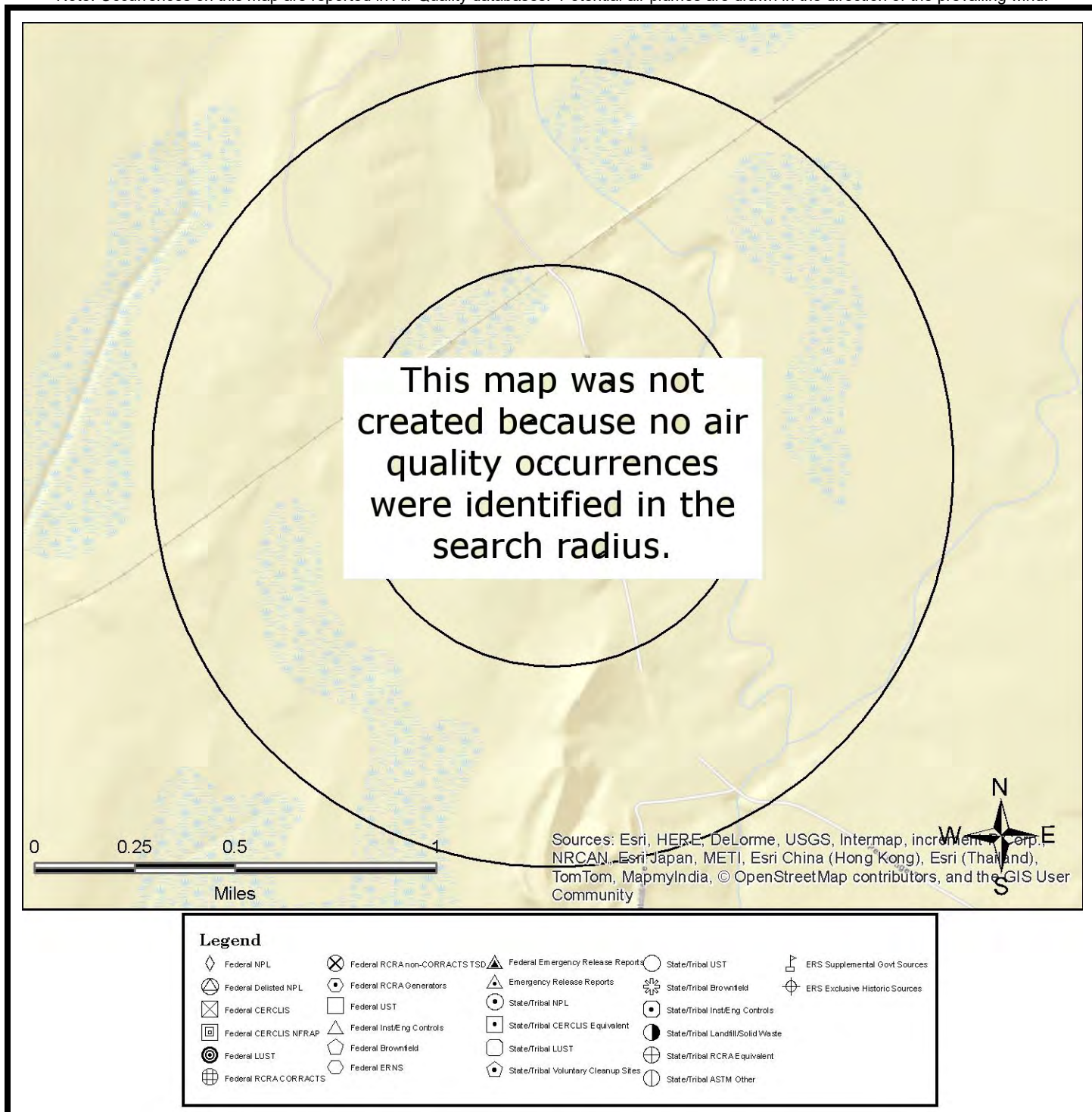
---

## 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.				

## 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 contaminants 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.

## LISTED OCCURRENCE DETAILS

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

---

## **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:** 2/8/2016

**Date last checked:** 2/8/2016

**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**

---

**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:** 9/18/2015

**Date last checked:** 9/18/2015

**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:** 10/19/2015

**Date last checked:** 10/5/2015

**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:** 8/19/2015

**Date last checked:** 8/19/2015

**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.

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**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:** 3/30/2016

**Date last checked:** 3/1/2016

**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

**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:** 12/30/2015**Date last checked:** 12/1/2015**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:** United 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**

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**Category:** Federal CERCLIS NFRAP

**Description:** This database contains a listing of Archived CERCLIS sites. The Archive designation means that assessment at a site has been completed and EPA has determined no steps will be taken to designate the site as a priority by listing it on the National Priorities List (NPL). No further remedial action is planned for these sites under the Superfund Program.

**Agency:** United States Environmental Protection Agency

**Phone Number:** 8004249346

**Date last updated:** 3/22/2016

**Date last checked:** 2/26/2016

**Distance searched:** 0.5 miles

**Sites:**

None Found

### **CERCLIS-US**

#### **Comprehensive Environmental Response, Compensation, and Liability Information System**

**Category:** Federal CERCLIS

**Description:** CERCLIS is the Comprehensive Environmental Response, Compensation, and Liability Information System. CERCLIS contains information on hazardous waste sites, potential hazardous waste sites, and remedial activities across the nation, including sites that are on the National Priorities List (NPL) or being considered for the NPL. This database contains a listing of NPL Sites.

**Agency:** United States Environmental Protection Agency

**Phone Number:** 8004249346

**Date last updated:** 3/21/2016

**Date last checked:** 2/26/2016

**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:** 2/8/2016

**Date last checked:** 2/8/2016

**Distance searched:** 0.5 miles

**Sites:**

None Found

### **Close-WQARF-AZ**

#### **Closed Water Quality Assurance Revolving Fund (WQARF) Sites**

**Category:** State/Tribal NPL

**Description:** The database includes the closed Water Quality Assurance Revolving Fund (WQARF).

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**Agency:** Arizona Department of Environmental Quality

**Phone Number:** 6027714340

**Date last updated:** 12/30/2015

**Date last checked:** 12/1/2015

**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

**Phone Number:** 6027714397

**Date last updated:** 2/17/2016

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**Date last checked:** 2/17/2016

**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:** 3/24/2016

**Date last checked:** 2/29/2016

**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:** 2/8/2016

**Date last checked:** 2/8/2016

**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:**

None Found

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**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:** 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:** 3/21/2016**Date last checked:** 2/26/2016**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:** 12/30/2015**Date last checked:** 12/1/2015**Distance searched:** 1 mile**Sites:**

None Found

**DryCleaners-AZ****Dry Cleaner Facilities****Category:** ERS Supplemental Govt Sources

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**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

**Phone Number:** 6027714340

**Date last updated:** 12/30/2015

**Date last checked:** 12/1/2015

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**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:** 1/27/2016

**Date last checked:** 2/25/2016

**Distance searched:** 0.063 miles

**Sites:**

None Found

### **FA-HW-US**

#### **Financial Assurance, Hazardous Waste**

**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.

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**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

**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**

**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:** 3/7/2016

**Date last checked:** 3/7/2016

**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

**Distance searched:** 0.25 miles

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**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. This classification covers establishments primarily engaged in the production or feeding of beef cattle, except feedlots. Establishments also included are engaged in the production of cows' milk and other dairy products and in raising dairy heifer replacements. Such farms may process and bottle milk on the farm and sell at wholesale or retail. This category also includes establishments primarily engaged in the production of animal specialties, not elsewhere classified, such as pets, bees, worms, and laboratory animals. Furthermore, this industry includes establishments primarily engaged in the production of cash grains, not elsewhere classified. Primary cash grains in this classification include dry field and seed peas and beans, safflowers, sunflowers, and popcorn.

**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 sites such as: Auto Dealers. This classification is comprised of establishments involved in the retail sale of new automobiles and light trucks. This category also covers establishments primarily engaged in the retail sale of used cars only, with no sales of new automobiles, new automobile tires, batteries, and other automobile parts and accessories.

**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. This classification is primarily selling, tires, replacement parts, batteries, and other automotive accessories. In addition, many operate service departments.

**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-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. This industry classification includes establishments engaged in manufacturing alkalies and chlorine. Examples of products include compressed or liquefied chlorine, sodium or potassium hydroxide, sodium bicarbonate, and soda ash (not produced at mines). Manufacturing of industrial gases (organic as well as inorganic) that may be sold in compressed, liquid, or solid form. Industrial gases include acetylene, argon, carbon dioxide, helium, hydrogen, neon, nitrogen, nitrous oxide, and oxygen. Also, manufacturing industrial inorganic chemicals not elsewhere classified. A few examples are alum, ammonium compounds (except for fertilizer), industrial bleaches (sodium or calcium hypochlorite), chemical catalysts, hydrazine, hydrochloric acid, hydrogen peroxide, inorganic sodium compounds, and sulfuric acid. Other chemicals, not elsewhere classified, such as, fatty acids, essential oils, gelatin (except vegetable), sizes, bluing, laundry sours, writing and stamp pad ink, industrial compounds, such as boiler and heat insulating compounds, metal, oil, and water treating compounds, waterproofing compounds, and chemical supplies for foundries. This category also includes manufacturing various resins and plastics for sale to other industries that create plastic sheets, rods, films, and other products. The category also includes synthetic rubber, soap and detergents, rayon and acetate fibers. Furthermore, this category includes industrial and household adhesives, glues, caulking compounds, sealants, and linoleum, tile, rubber cements from vegetable, hardwood and softwood distillation products, natural dyes, tanning materials, and related 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-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. This category includes firms that primarily operate mechanical laundries powered with steam or other means, offer services, such as, dry cleaning or dyeing apparel, household fabrics, cleaning carpets and upholstered furniture, repair, alteration, and storage of clothes for individuals. Also, these establishments may provide laundered or dry-cleaned services to industrial, commercial, and government users. This category also includes establishments that primarily serve as agents for launderers and drycleaners. Furthermore, this category also includes businesses that primarily supply or rent to commercial establishments or household users the following laundered items: uniforms, gowns, and coats used by doctors, nurses, barbers, beauticians, and waitresses; table linens, bed linens, towels and toweling; and similar various items.

**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-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

### **Hist-Machine Shop**

#### **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-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

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**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. This classification includes establishments primarily engaged in preparing the dead for burial, conducting funerals, and cremating the dead.

**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

**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. This category covers establishments engaged primarily in producing gasoline, kerosene, distillate fuel oils, residual fuel oils, and lubricants through fractionation or straight distillation of crude oil, re-distillation of unfinished petroleum derivatives, cracking, or other processes. This category also includes establishments primarily engaged in manufacturing packaged fuel, powdered fuel, and other products of petroleum and coal not elsewhere classified, asphalt and tar paving mixtures and paving blocks made of asphalt mixed. Furthermore, this category includes establishments primarily engaged in blending, compounding, and re-refining lubricating oils and greases from purchased mineral, animal, and vegetable materials.

**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. This category is primarily engaged in publishing newspapers or in publishing and printing newspapers, publishing and printing periodicals, publishing and printing books and pamphlets. Other forms of publishing not elsewhere classified, such as, atlases, business service newsletters, calendars, catalogs, directories, guides, maps and map globe covers, paper patterns, race track programs, racing forms, sheet music, shopping news, technical manuals and papers, telephone directories, and yearbooks, as well as the activity of micropublishing. This category also includes, commercial printing of magazines, postage stamps, dollar bills, calendars, fine art prints, wallpaper, catalogs, coupons, directories, newspaper advertising inserts, playing cards, postcards, gift wrap, and product packaging and wrappers, greeting cards, blank books, including checkbooks and books with ruling paper, and loose-leaf binders. Furthermore, these industries are also engaged in typesetting for the trade, including advertising typesetting, hand or machine composition, photocomposition, phototypesetting, computer-controlled typesetting, and typographic composition.

**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

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### **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. This classification is comprised of establishments involved in the retail sale of new and used motor homes, recreational trailers, and campers (pickup coaches), motorcycles, motorboats and other watercraft, marine supplies, and outboard motors.

**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

**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. This category includes gasoline service stations primarily engaged in selling gasoline and lubricating oils. These establishments frequently sell other merchandise, such as tires, batteries, and other automobile parts, or perform minor repair work.

**Agency:** Environmental Record Search (ERS)

**Phone Number:** 8003772430

**Date last updated:** Historical Database

**Date last checked:** N/A

**Distance searched:** 0.25 miles

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**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-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. This category covers establishments primarily engaged in furnishing trucking or transfer services without storage for freight generally weighing more than 100 pounds, in a single municipality, contiguous municipalities, or a municipality and its suburban areas. This category also includes establishments primarily engaged in the delivery of individually addressed letters, parcels, and packages (generally under 100 pounds), except by means of air transportation or by the United States Postal Service. This category covers establishments primarily engaged in furnishing "over-the-road" trucking services or storage services, including household goods either as common carriers or under special or individual contracts or agreements, for freight generally weighing more than 100 pounds. This category also includes establishments primarily engaged in the warehousing and storage of special products, not elsewhere classified, such as household goods, automobiles (dead storage only), furs (for the trade), textiles, oil, chemicals, lumber, whiskey, and goods at foreign trade zones, farm products, perishable goods under refrigeration.

**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

**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

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**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-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 sites such as: Vehicle Parts Dealers. This category includes establishments primarily engaged in the retail sale of new automobile tires, batteries, and other automobile parts and accessories.

**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

**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:** 1/13/2016

**Date last checked:** 3/1/2016

**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

**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:** 2/17/2015

**Date last checked:** 12/2/2015

**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.

**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

**Phone Number:** 8004249346

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**Date last updated:** 2/8/2016  
**Date last checked:** 2/8/2016  
**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:** 3/1/2016

**Date last checked:** 2/10/2016

**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:** 3/1/2016

**Date last checked:** 2/10/2016

**Distance searched:** 0.5 miles

**Sites:**  
None Found

### **Manifest2-NY**

#### **Hazardous Waste Manifest**

**Category:** State/Tribal RCRA Equivalent

**Description:** The New York Department of Environmental Conservation, Hazardous Waste Manifest System lists sites from all over the country, not just New York. To be thorough, ERS has searched the data subset that includes Kansas sites for listings on or near the subject site that are listed in the New York Department of Environmental Conservation, Hazardous Waste Manifest System.

**Agency:** New York State Department of Environmental Conservation

**Phone Number:** 5184028730

**Date last updated:** 12/9/2014

**Date last checked:** 12/5/2014

**Distance searched:** 0.063 miles

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**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 Kansas 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:** 12/16/2014

**Date last checked:** 12/16/2014

**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

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**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****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:** 11/17/2015

**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.

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**Agency:** Environmental Protection Agency

**Phone Number:** 4159478000

**Date last updated:** 12/30/2015

**Date last checked:** 12/1/2015

**Distance searched:** 1 mile

**Sites:**

None Found

### **NPL-US**

#### **National Priorities List**

**Category:** Federal NPL

**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:** 3/21/2016

**Date last checked:** 2/26/2016

**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:** 2/8/2016

**Date last checked:** 2/8/2016

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**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

**Date last updated:** 3/21/2016

**Date last checked:** 3/1/2016

**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:** 3/1/2016

**Date last checked:** 3/1/2016

**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:** This database contains current proposed NPL sites as reported by the EPA.**Agency:** United States Environmental Protection Agency**Phone Number:** 8004249346**Date last updated:** 11/23/2015**Date last checked:** 2/26/2016**Distance searched:** 1 mile**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:** 3/1/2016**Date last checked:** 3/1/2016**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:** 2/3/2016**Date last checked:** 1/29/2016**Distance searched:** 0.25 miles**Sites:**

None Found

**RCRA-COR-US****Resource Conservation and Recovery Act - Corrective Actions**

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**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:** 2/3/2016

**Date last checked:** 1/29/2016

**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:** 2/3/2016

**Date last checked:** 1/29/2016

**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:** 2/3/2016

**Date last checked:** 1/29/2016

**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**Date last updated:** 2/3/2016**Date last checked:** 1/29/2016**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:** 2/3/2016**Date last checked:** 1/29/2016**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:** 2/17/2016**Date last checked:** 2/17/2016**Distance searched:** 0.5 miles**Sites:**

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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:** 2/17/2016

**Date last checked:** 2/17/2016

**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:** 3/12/2015

**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

**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:** 2/25/2016

**Date last checked:** 2/25/2016

**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:** 3/11/2015

**Date last checked:** 3/10/2015

**Distance searched:** 0.25 miles

**Sites:**

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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:** 2/8/2016

**Date last checked:** 2/8/2016

**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:** 9/4/2015

**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:** 3/2/2016

**Date last checked:** 3/2/2016

**Distance searched:** 0.5 miles

**Sites:**

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**

**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:** 2/25/2016

**Date last checked:** 2/25/2016

**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

**Date last updated:** 2/8/2016

**Date last checked:** 2/8/2016

**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

**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**

#### **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.

**Agency:** Arizona Department of Environmental Quality

**Phone Number:** 6027712300

**Date last updated:** 2/29/2016

**Date last checked:** 2/22/2016

**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:** 2/8/2016

**Date last checked:** 2/8/2016

**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**

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**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

### **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

---

## **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.

ID	Facility Name	Address	Database	Status
No "un-mapped" sites requested.				

---

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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.

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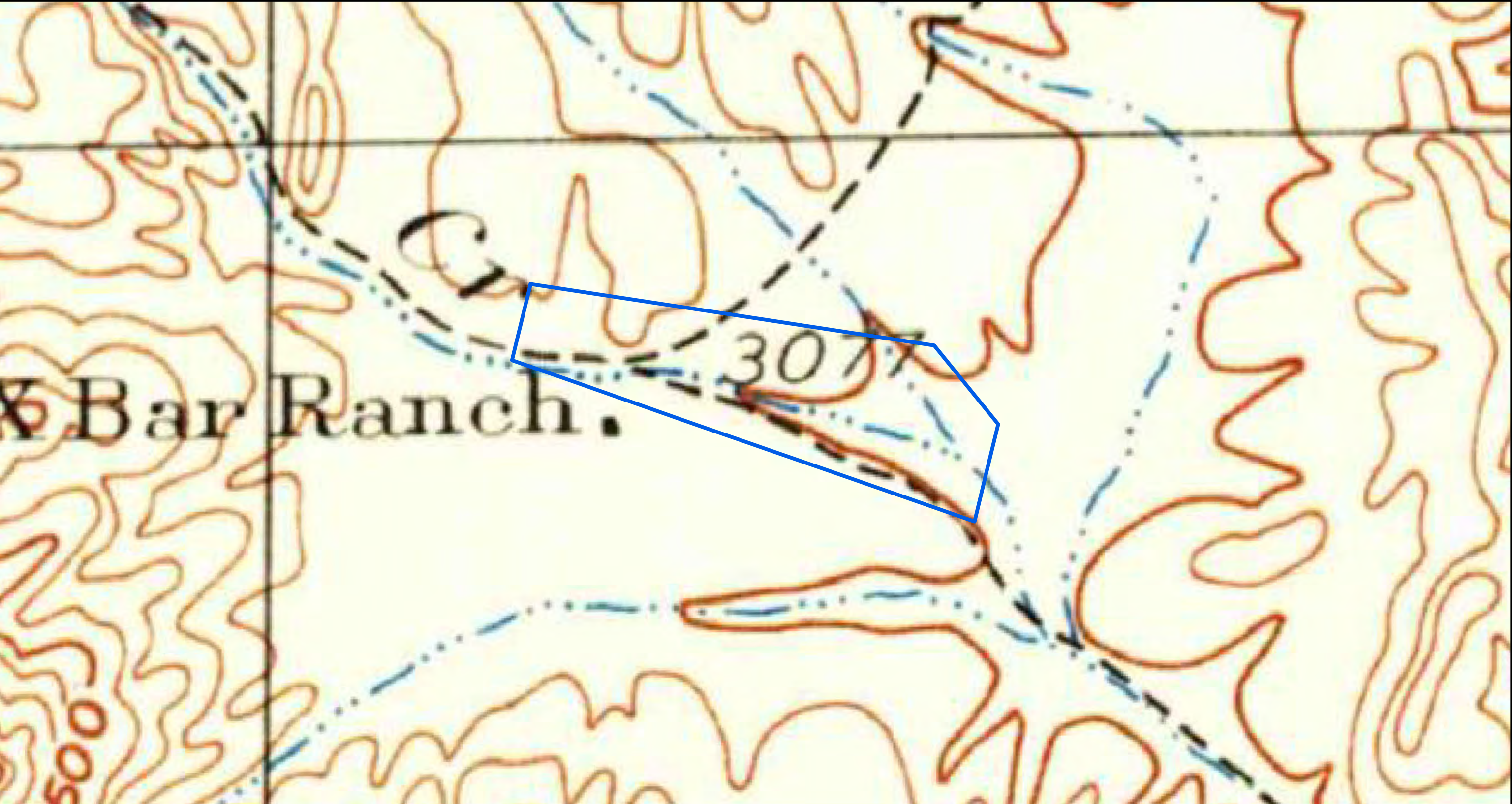
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## **APPENDIX F**

### **HISTORICAL TOPOGRAPHIC MAPS**

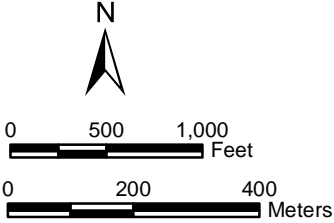


Tangle Creek:  
T9.5N, R5E, Portion of Sections 34 and 35,  
T9N, R5E, Portion of Section 2,  
Yavapai County, Arizona.  
Image Source: 1929 Turret Peak 1:125,000  
USGS Quadrangle provided by ERS -  
Environmental Record Search

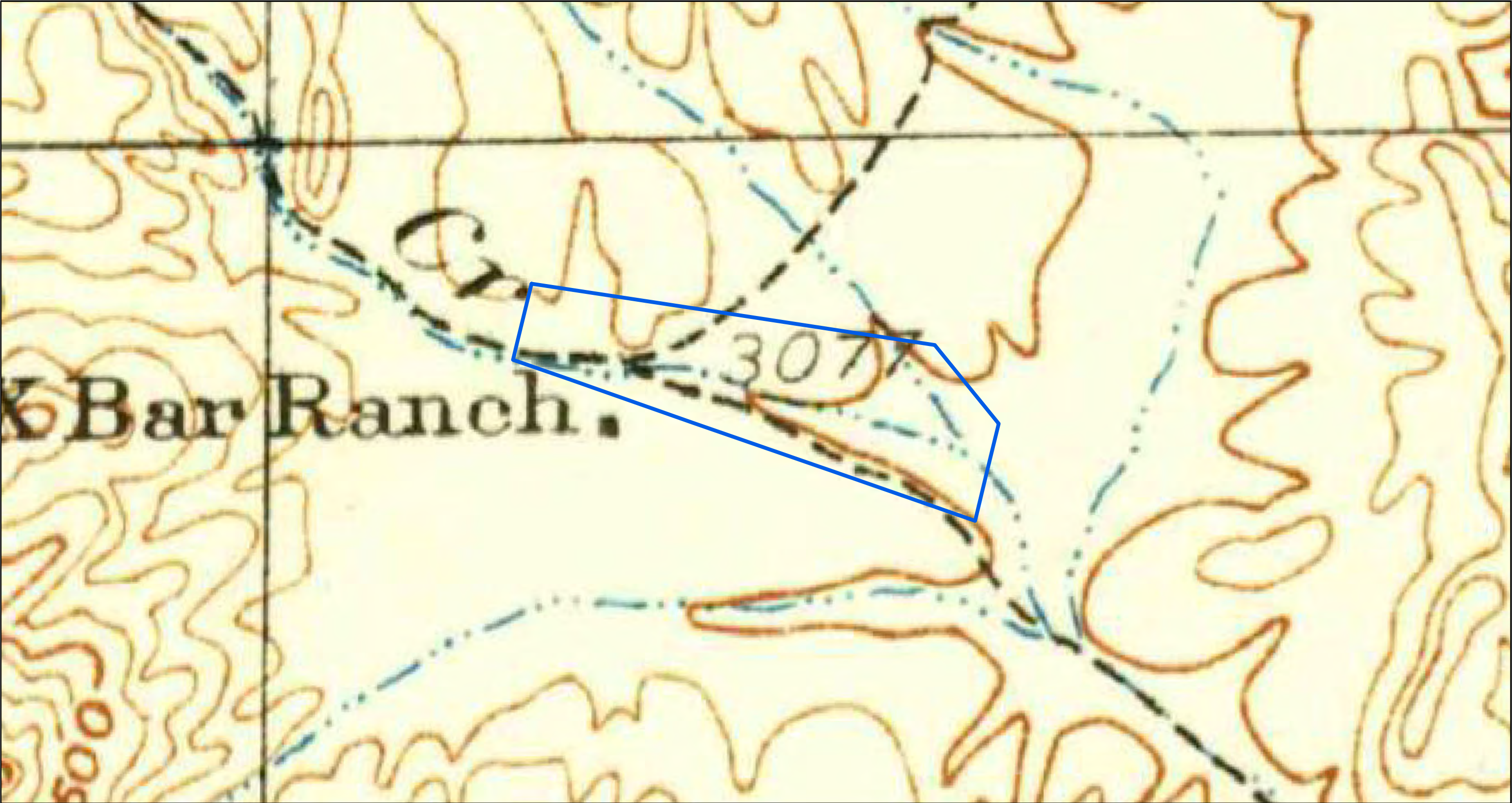


Legend

 Tangle Creek Parcel



RESOLUTION COPPER  
Phase 1 ESA  
TANGLE CREEK PARCEL  
1929 Topographic Map




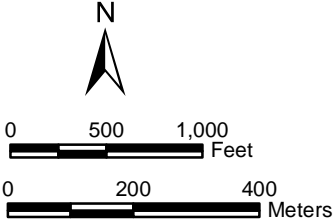
Tangle Creek:  
T9.5N, R5E, Portion of Sections 34 and 35,  
T9N, R5E, Portion of Section 2,  
Yavapai County, Arizona.  
Image Source: 1933 Turret Peak 1:125,000  
USGS Quadrangle provided by ERS -  
Environmental Record Search



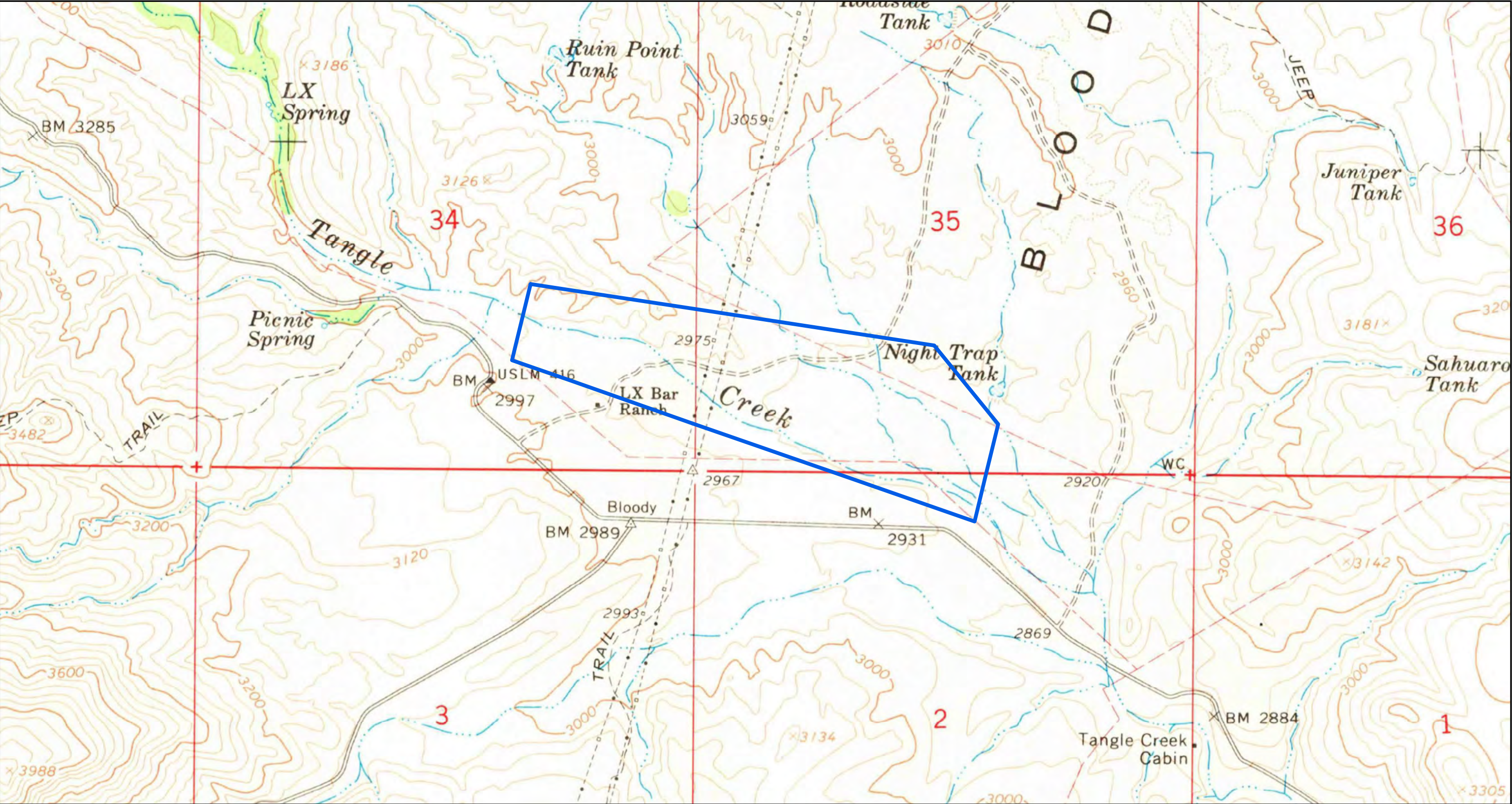
WestLand Resources

**Legend**

 Tangle Creek Parcel



**RESOLUTION COPPER**  
**Phase 1 ESA**  
**TANGLE CREEK PARCEL**  
1933 Topographic Map

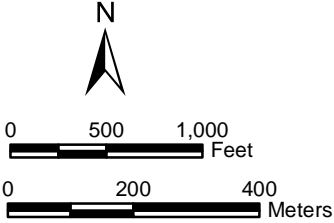


Tangle Creek:  
T9.5N, R5E, Portion of Sections 34 and 35,  
T9N, R5E, Portion of Section 2,  
Yavapai County, Arizona.  
Image Source: 1967 Bloody Basin 7.5 Minute  
USGS Quadrangle provided by ERS -  
Environmental Record Search

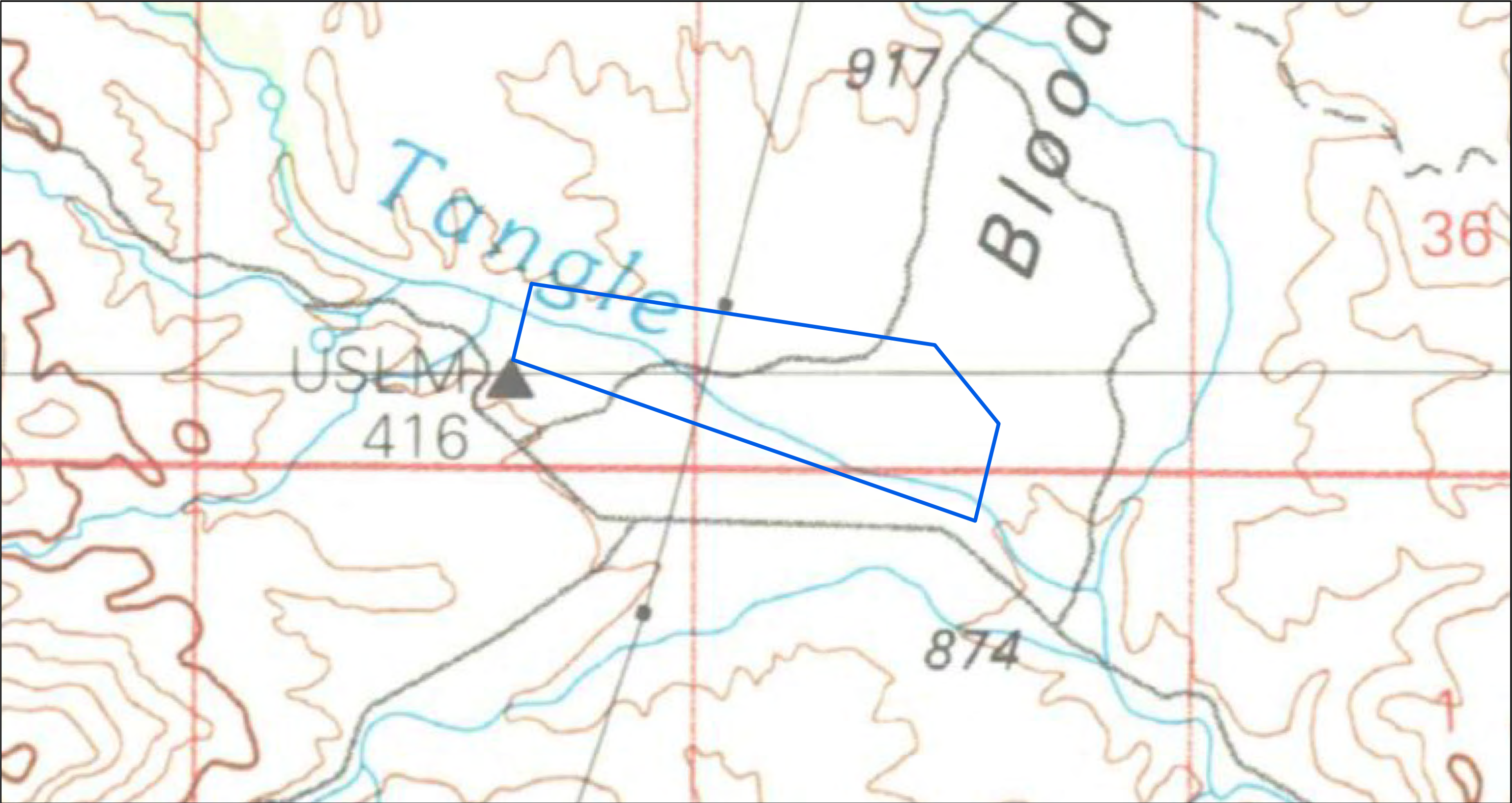


Legend

 Tangle Creek Parcel



RESOLUTION COPPER  
Phase 1 ESA  
TANGLE CREEK PARCEL  
1967 Topographic Map




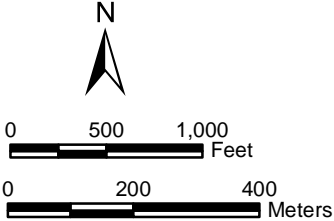
Tangle Creek:  
T9.5N, R5E, Portion of Sections 34 and 35,  
T9N, R5E, Portion of Section 2,  
Yavapai County, Arizona.  
Image Source: 1981 Payson 1:100,000  
USGS Quadrangle provided by ERS -  
Environmental Record Search



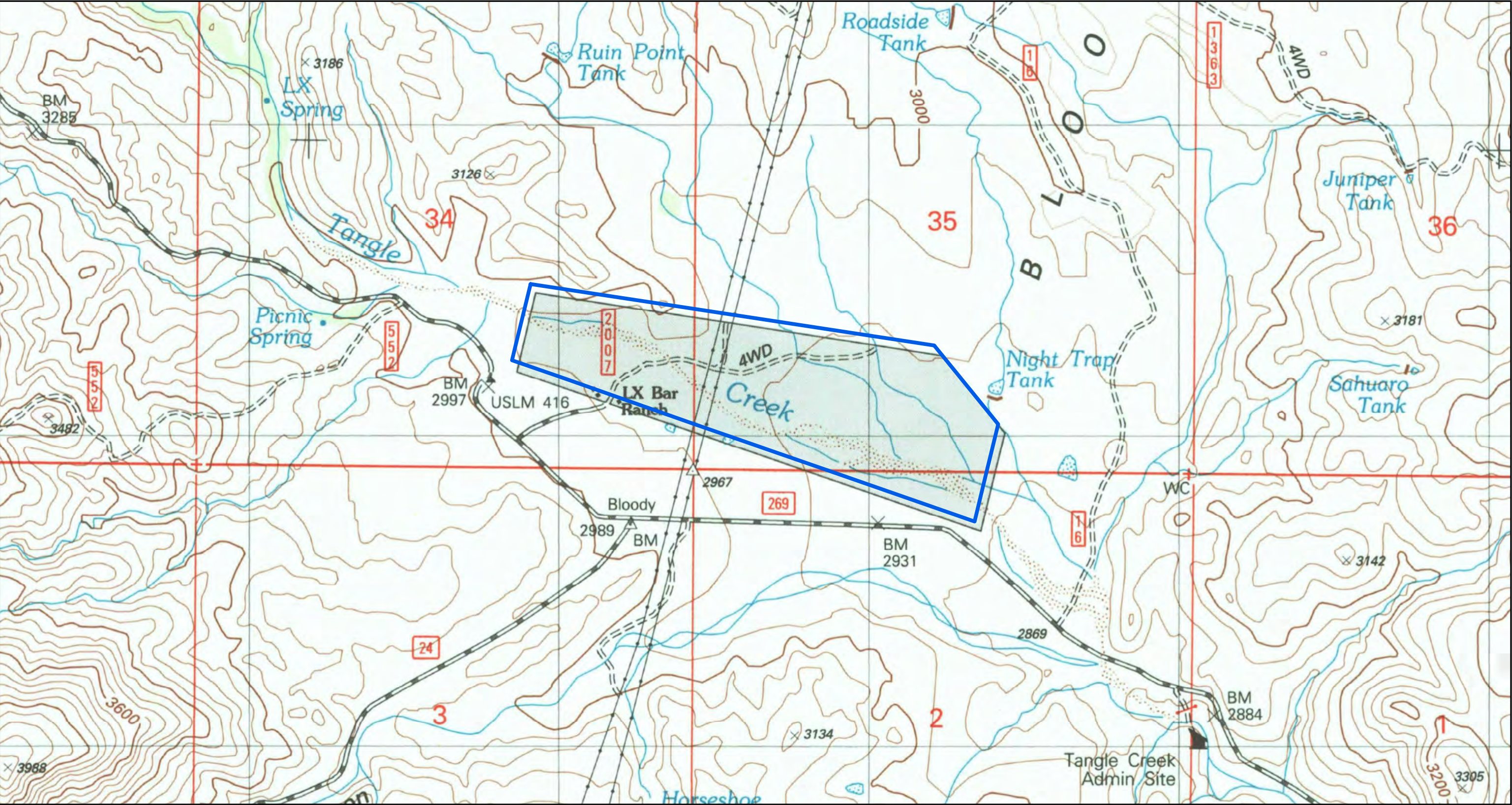
WestLand Resources

**Legend**

 Tangle Creek Parcel




**RESOLUTION COPPER**  
**Phase 1 ESA**  
**TANGLE CREEK PARCEL**  
1981 Topographic Map

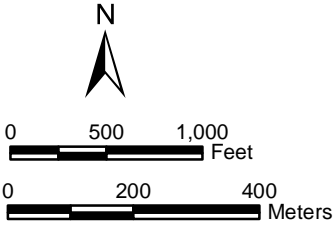


Tangle Creek:  
T9.5N, R5E, Portion of Sections 34 and 35,  
T9N, R5E, Portion of Section 2,  
Yavapai County, Arizona.  
Image Source: 2004 Bloody Basin 7.5 Minute  
USGS Quadrangle provided by ERS -  
Environmental Record Search

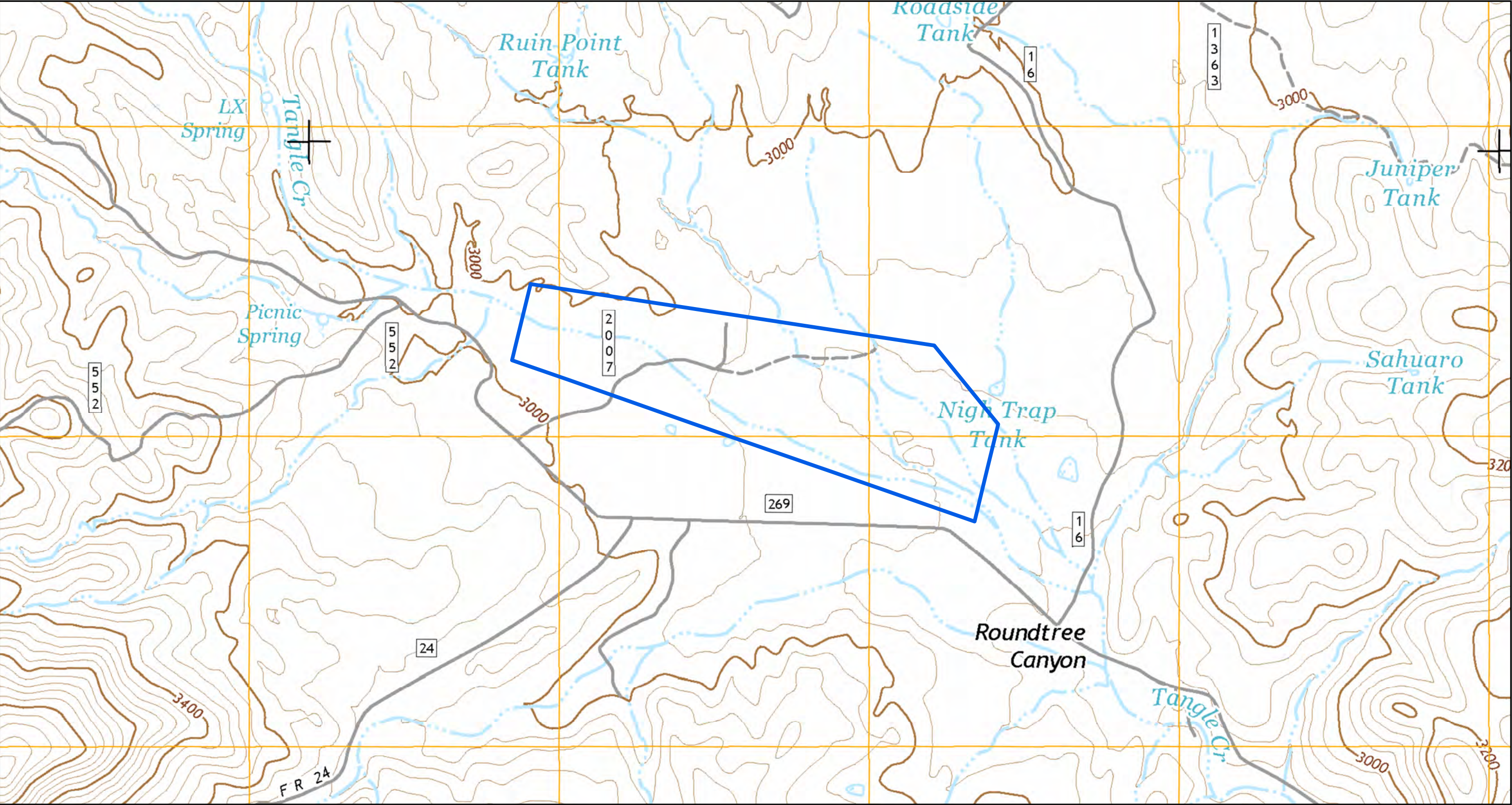


Legend

 Tangle Creek Parcel




RESOLUTION COPPER  
Phase 1 ESA  
TANGLE CREEK PARCEL  
2004 Topographic Map

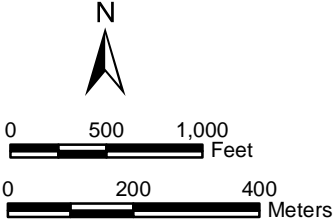


Tangle Creek:  
T9.5N, R5E, Portion of Sections 34 and 35,  
T9N, R5E, Portion of Section 2,  
Yavapai County, Arizona.  
Image Source: 2014 Bloody Basin 7.5 Minute  
USGS Quadrangle



Legend

 Tangle Creek Parcel

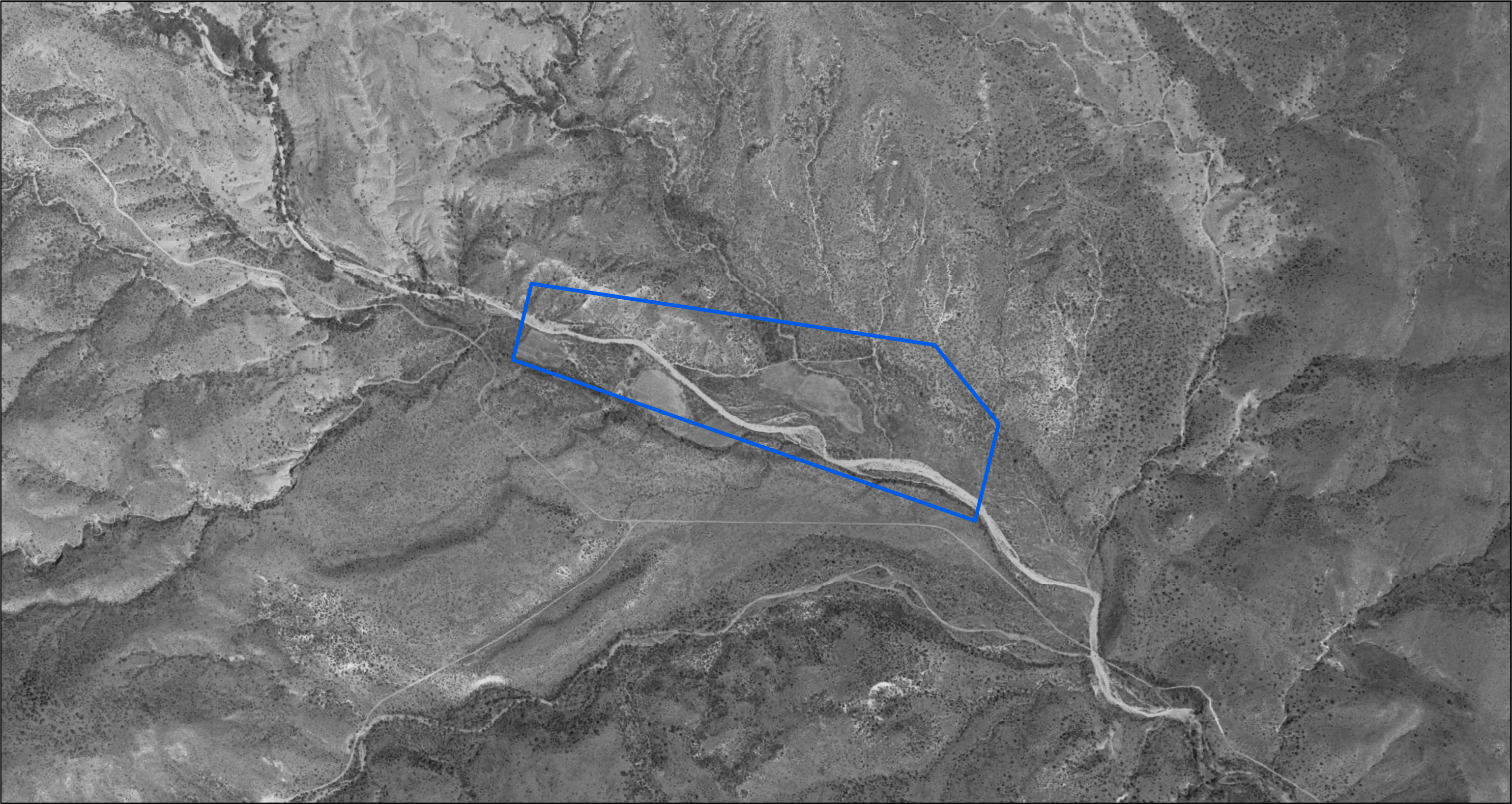


RESOLUTION COPPER  
Phase 1 ESA  
TANGLE CREEK PARCEL  
2014 Topographic Map

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## **APPENDIX G**

### **HISTORICAL AERIAL PHOTOGRAPHS**

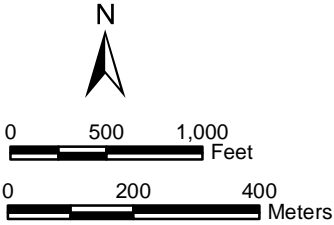


Tangle Creek:  
T9.5N, R5E, Portion of Sections 34 and 35,  
T9N, R5E, Portion of Section 2,  
Yavapai County, Arizona.  
Image Source: 1953 Aerial Photograph  
provided by ERS -  
Environmental Record Search



**Legend**

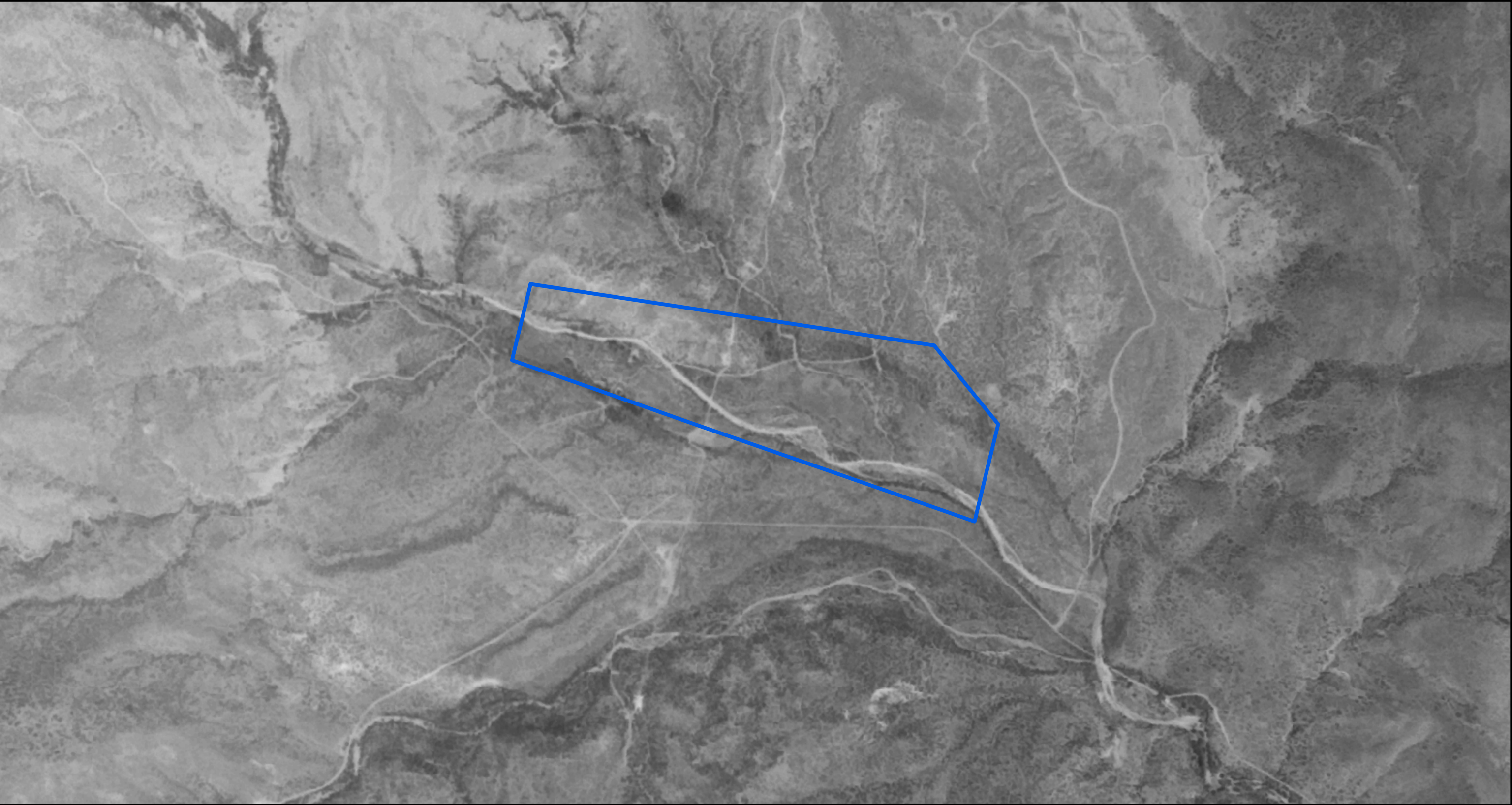
 Tangle Creek Parcel



**RESOLUTION COPPER**  
**Phase 1 ESA**  

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**TANGLE CREEK PARCEL**  
1953 Aerial Photograph

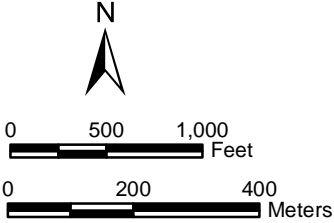


Tangle Creek:  
T9.5N, R5E, Portion of Sections 34 and 35,  
T9N, R5E, Portion of Section 2,  
Yavapai County, Arizona.  
Image Source: 1965 Aerial Photograph  
provided by ERS -  
Environmental Record Search



**Legend**

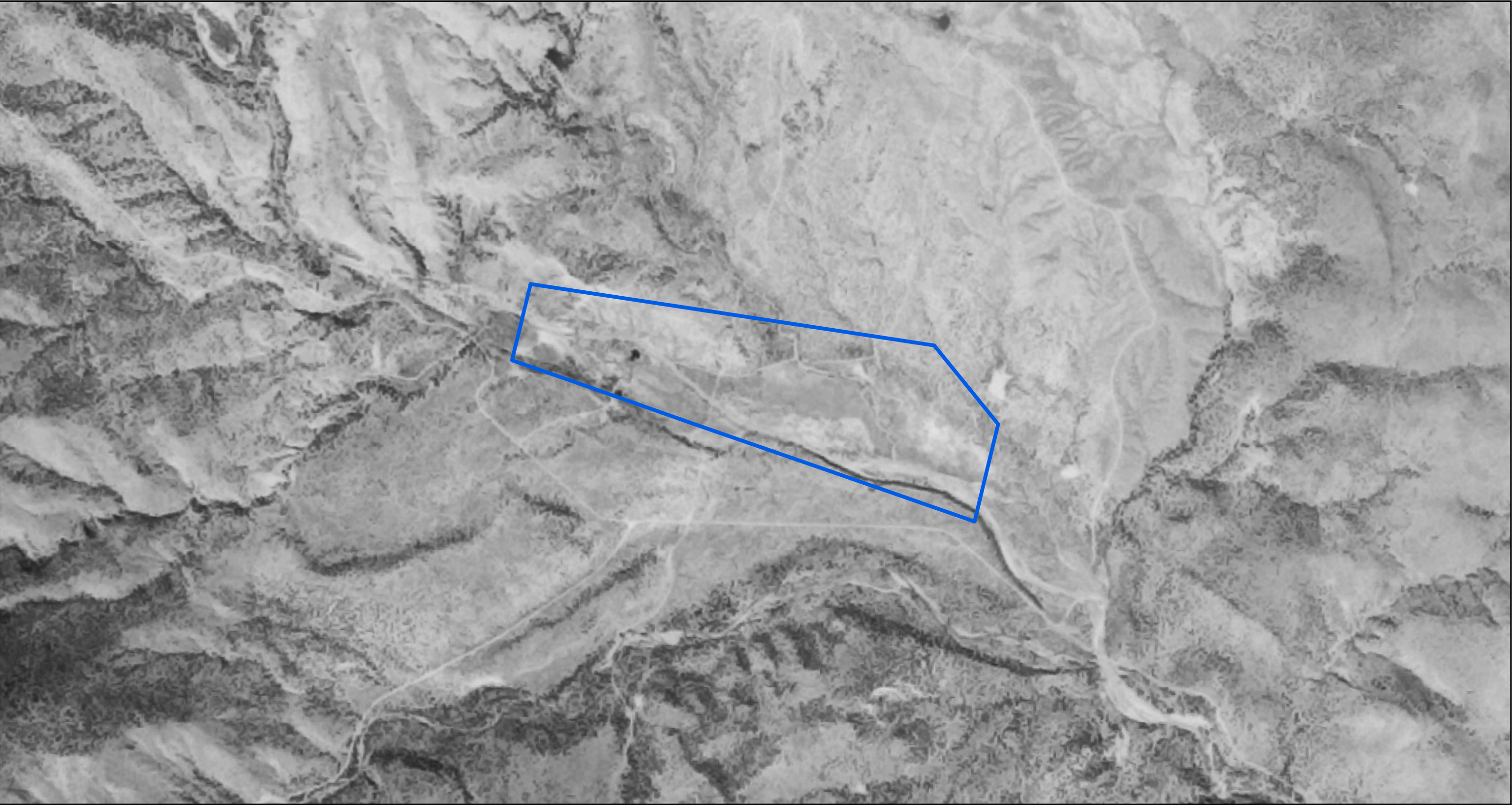
 Tangle Creek Parcel



**RESOLUTION COPPER**  
**Phase 1 ESA**  

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**TANGLE CREEK PARCEL**  
1965 Aerial Photograph

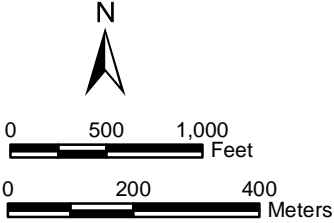


Tangle Creek:  
T9.5N, R5E, Portion of Sections 34 and 35,  
T9N, R5E, Portion of Section 2,  
Yavapai County, Arizona.  
Image Source: 1978 Aerial Photograph  
provided by ERS -  
Environmental Record Search



**Legend**

 Tangle Creek Parcel



**RESOLUTION COPPER**  
**Phase 1 ESA**  

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**TANGLE CREEK PARCEL**  
1978 Aerial Photograph

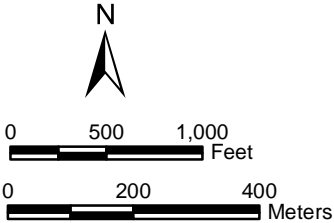


Tangle Creek:  
T9.5N, R5E, Portion of Sections 34 and 35,  
T9N, R5E, Portion of Section 2,  
Yavapai County, Arizona.  
Image Source: 1980 Aerial Photograph  
provided by ERS -  
Environmental Record Search

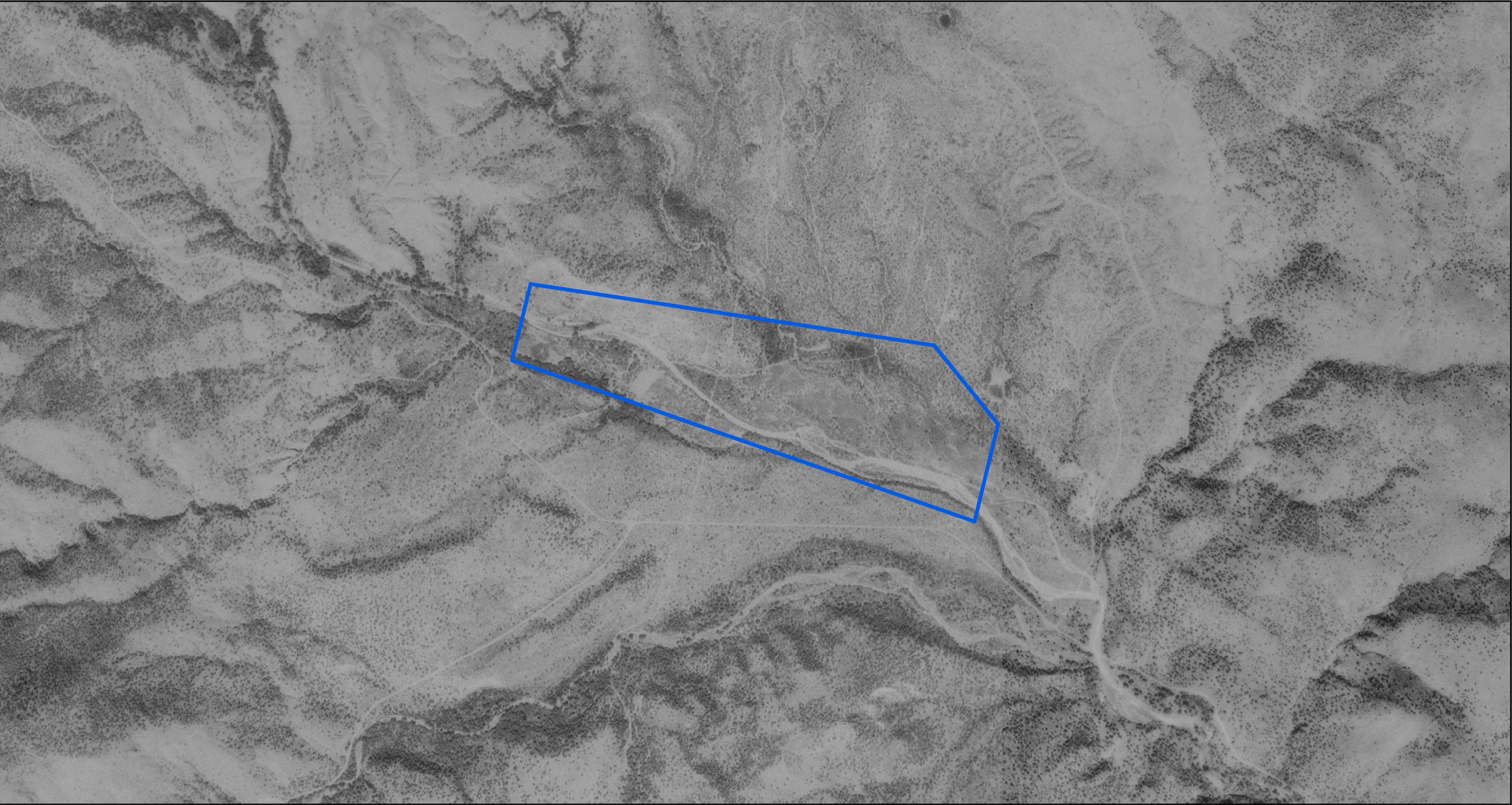


**Legend**

 Tangle Creek Parcel



**RESOLUTION COPPER**  
**Phase 1 ESA**  
TANGLE CREEK PARCEL  
1980 Aerial Photograph

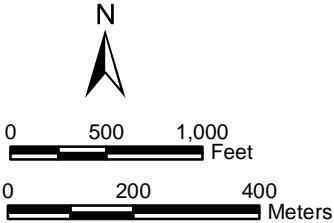


Tangle Creek:  
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T9N, R5E, Portion of Section 2,  
Yavapai County, Arizona.  
Image Source: 1992 USGS Digital Ortho Quarter  
Quadrangle (DOQQ) Bloody Basin SE and  
Bloody Basin SW DOQQ Orthophotos

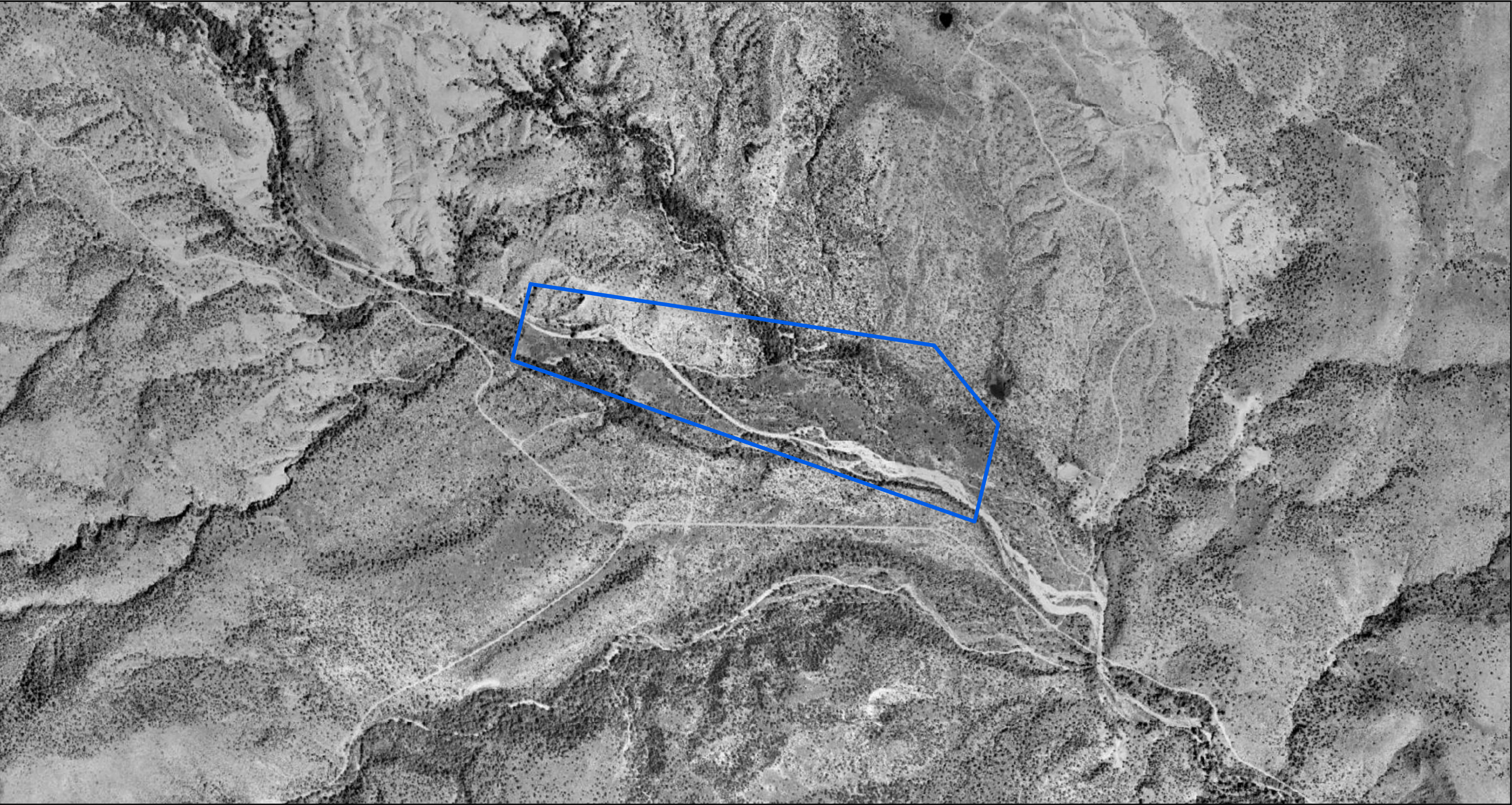


Legend

 Tangle Creek Parcel



RESOLUTION COPPER  
Phase 1 ESA  
TANGLE CREEK PARCEL  
1992 Aerial Photograph

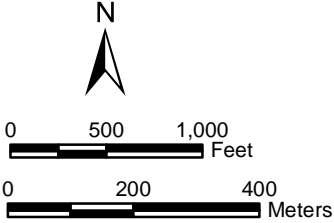


Tangle Creek:  
T9.5N, R5E, Portion of Sections 34 and 35,  
T9N, R5E, Portion of Section 2,  
Yavapai County, Arizona.  
Image Source: 2003 Aerial Photograph  
provided by ERS -  
Environmental Record Search



**Legend**

 Tangle Creek Parcel



**RESOLUTION COPPER**  
**Phase 1 ESA**  
TANGLE CREEK PARCEL  
2003 Aerial Photograph



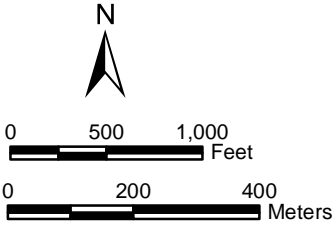
Tangle Creek:  
T9.5N, R5E, Portion of Sections 34 and 35,  
T9N, R5E, Portion of Section 2,  
Yavapai County, Arizona.  
Image Source: 2010 Aerial Photograph  
provided by ERS -  
Environmental Record Search



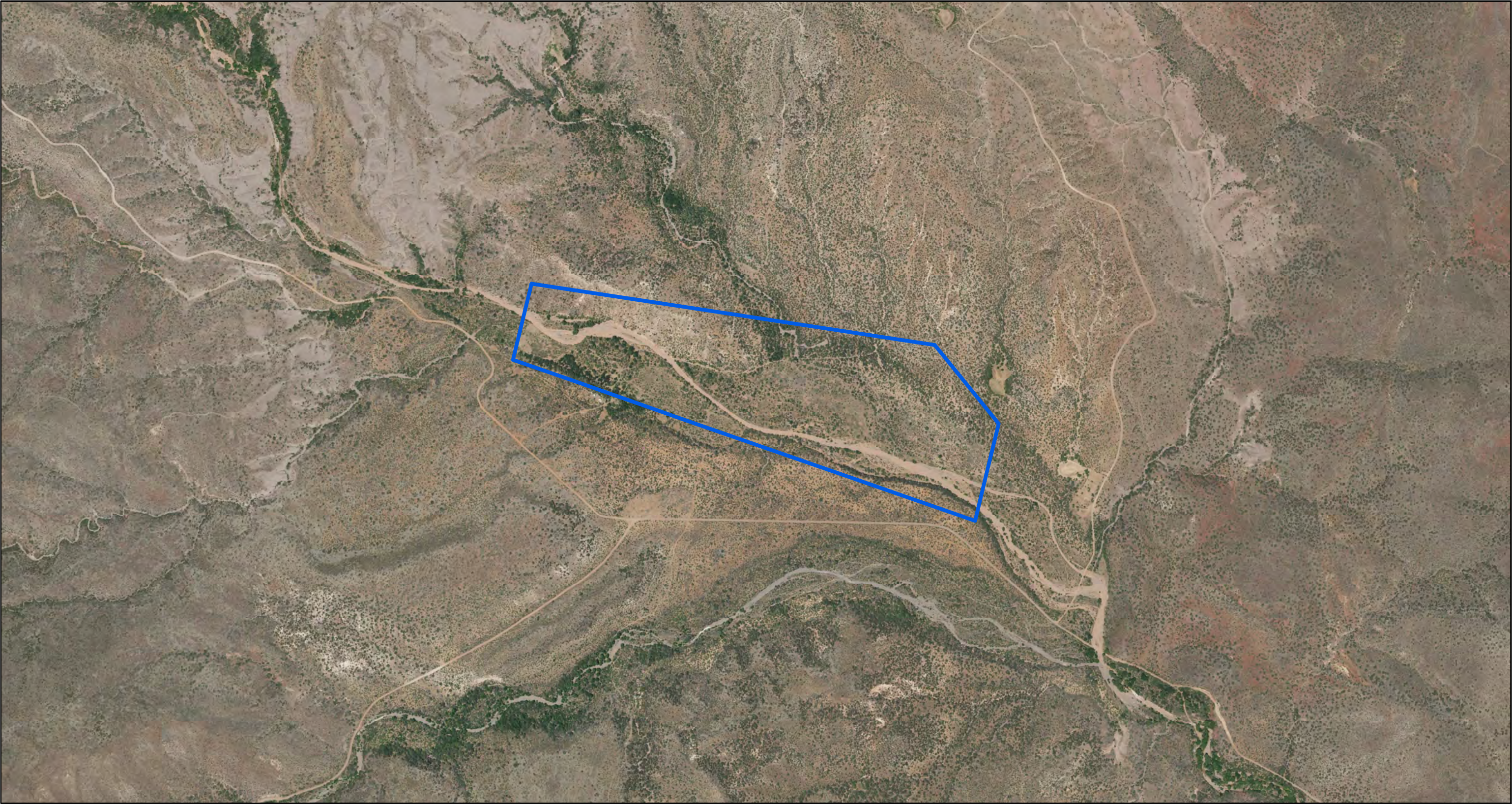
WestLand Resources

**Legend**

 Tangle Creek Parcel




**RESOLUTION COPPER**  
**Phase 1 ESA**  
TANGLE CREEK PARCEL  
2010 Aerial Photograph

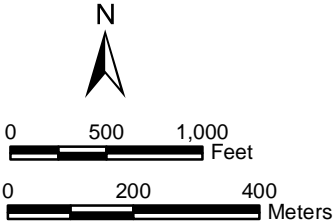


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T9N, R5E, Portion of Section 2,  
Yavapai County, Arizona.  
Image Source: 2015 USDA NAIP Orthophoto

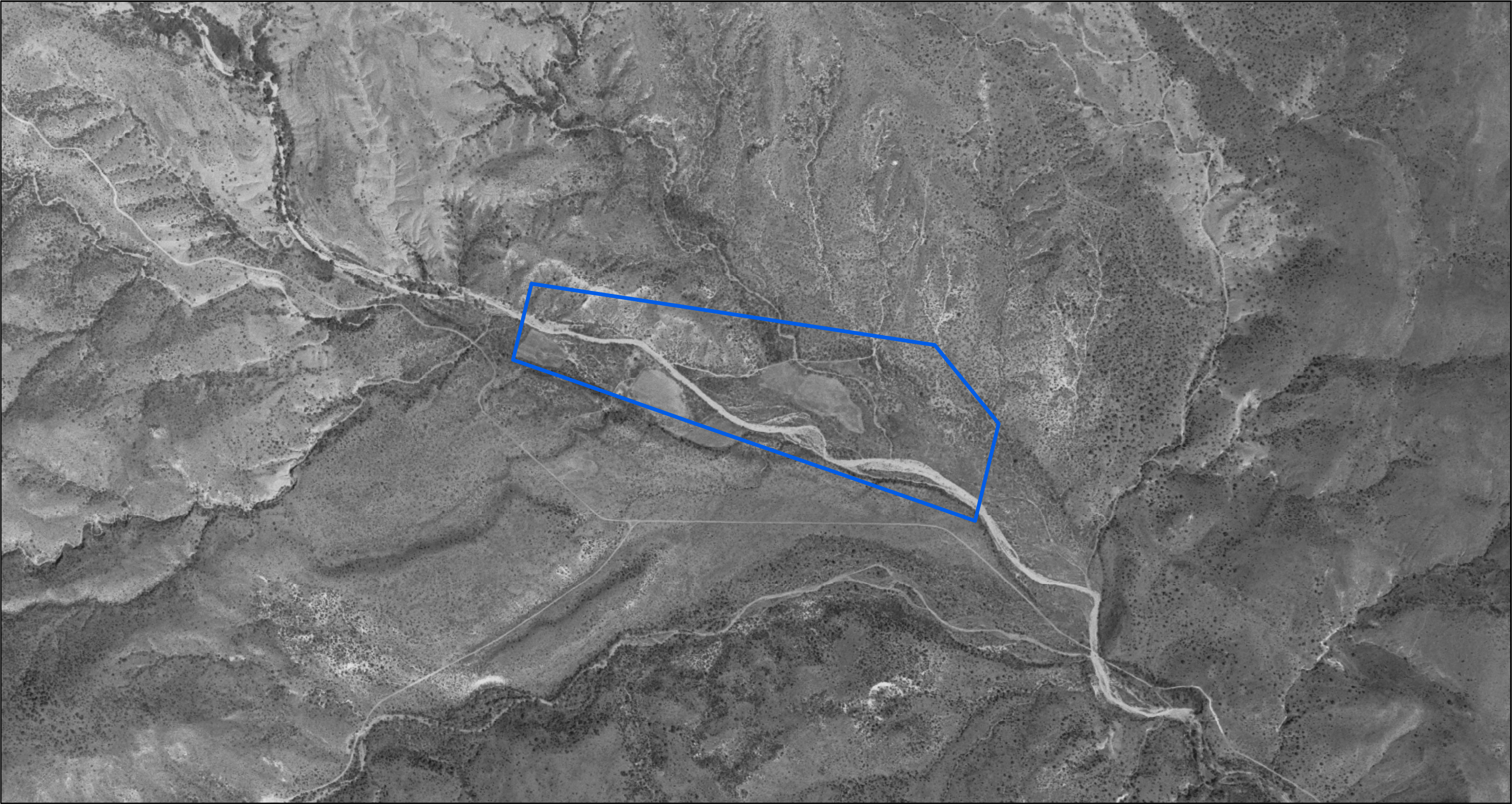


**Legend**

 Tangle Creek Parcel




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2015 Aerial Photograph

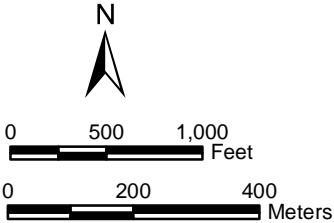


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Image Source: 1953 Aerial Photograph  
provided by ERS -  
Environmental Record Search



**Legend**

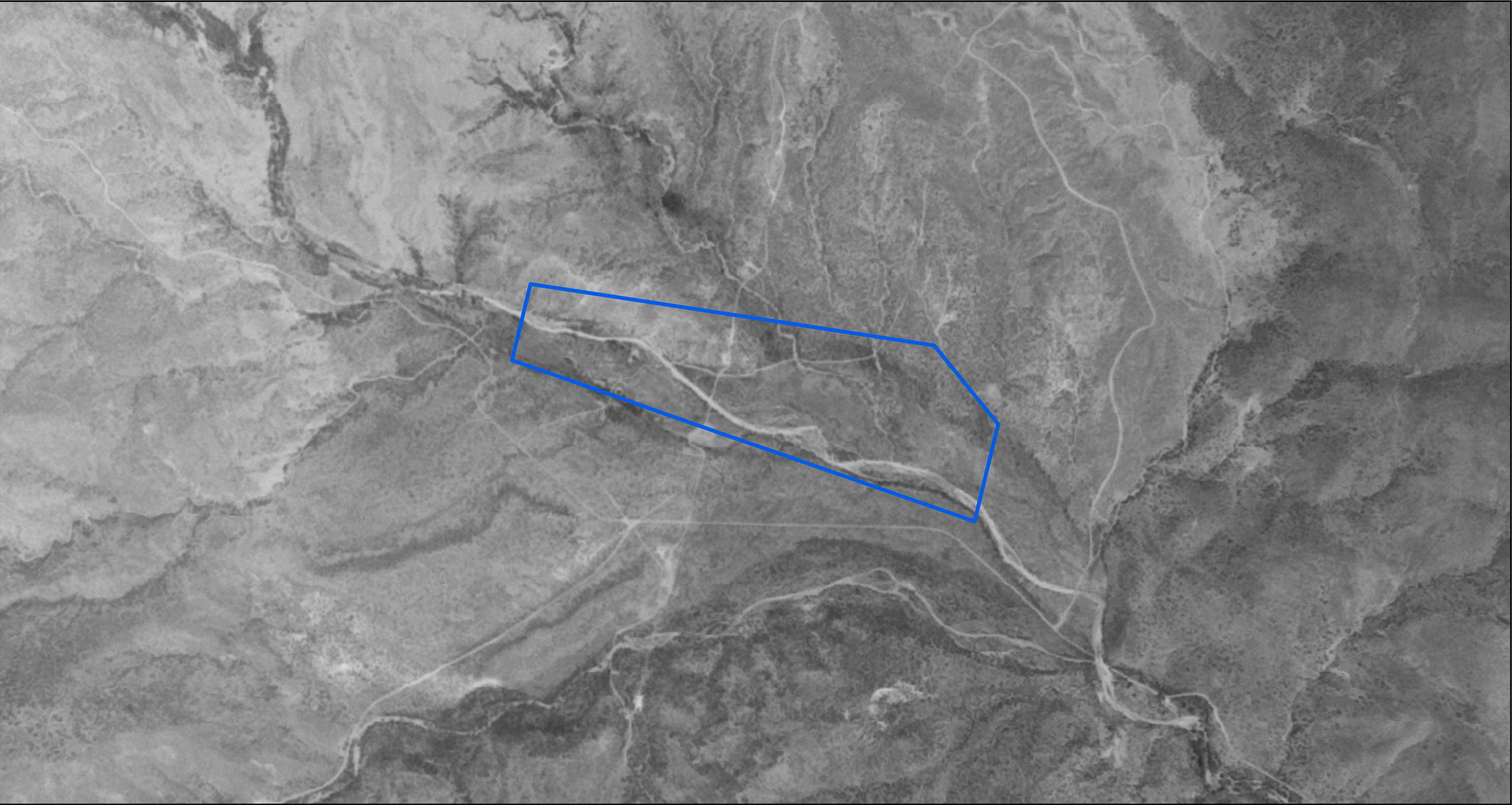
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**TANGLE CREEK PARCEL**  
1953 Aerial Photograph

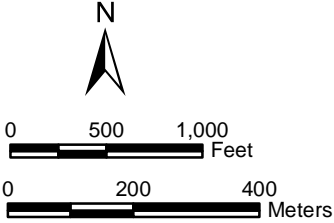


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provided by ERS -  
Environmental Record Search

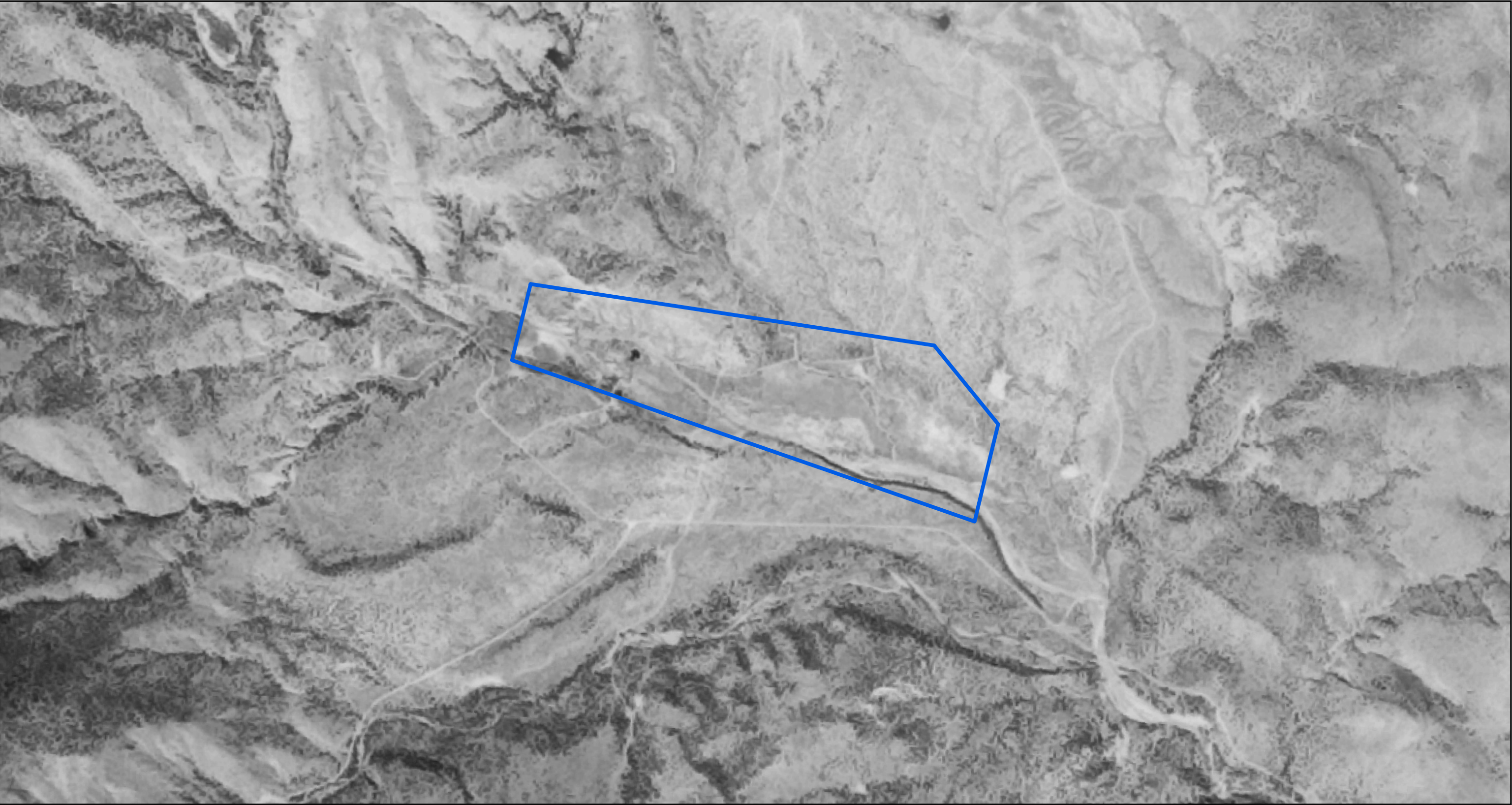


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 Tangle Creek Parcel



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TANGLE CREEK PARCEL  
1965 Aerial Photograph

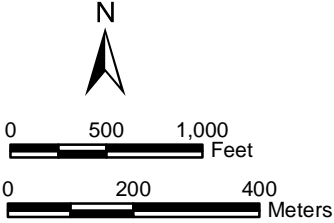


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Yavapai County, Arizona.  
Image Source: 1978 Aerial Photograph  
provided by ERS -  
Environmental Record Search



**Legend**

 Tangle Creek Parcel



**RESOLUTION COPPER**  
**Phase 1 ESA**  

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**TANGLE CREEK PARCEL**  
1978 Aerial Photograph

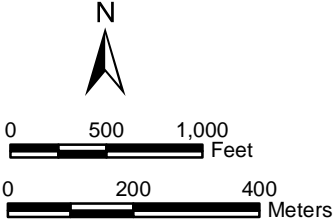


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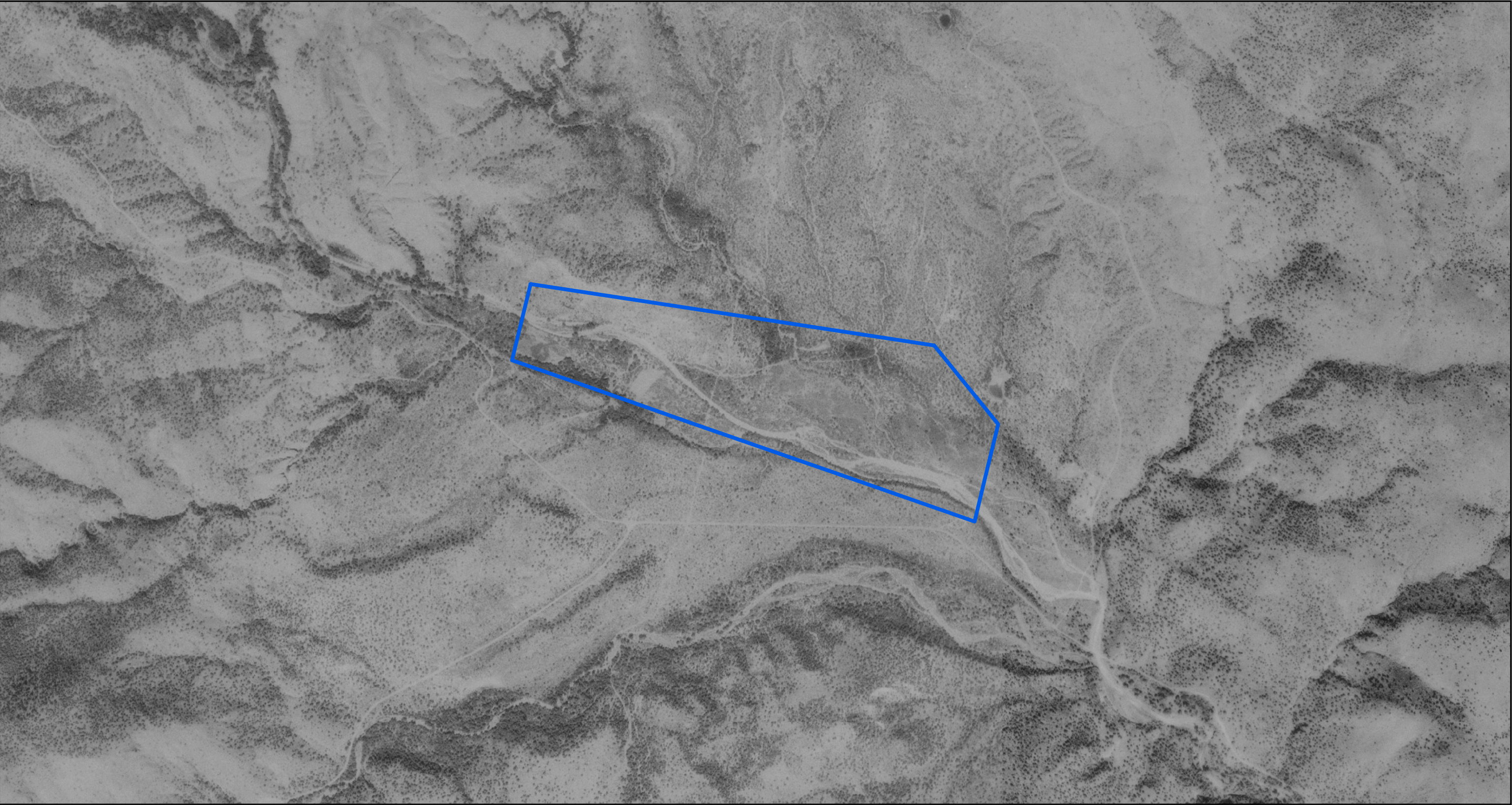


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TANGLE CREEK PARCEL  
1980 Aerial Photograph

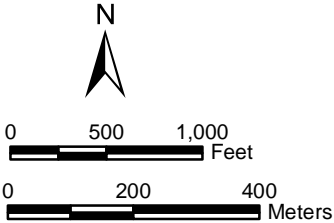


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Image Source: 1992 USGS Digital Ortho Quarter  
Quadrangle (DOQQ) Bloody Basin SE and  
Bloody Basin SW DOQQ Orthophotos

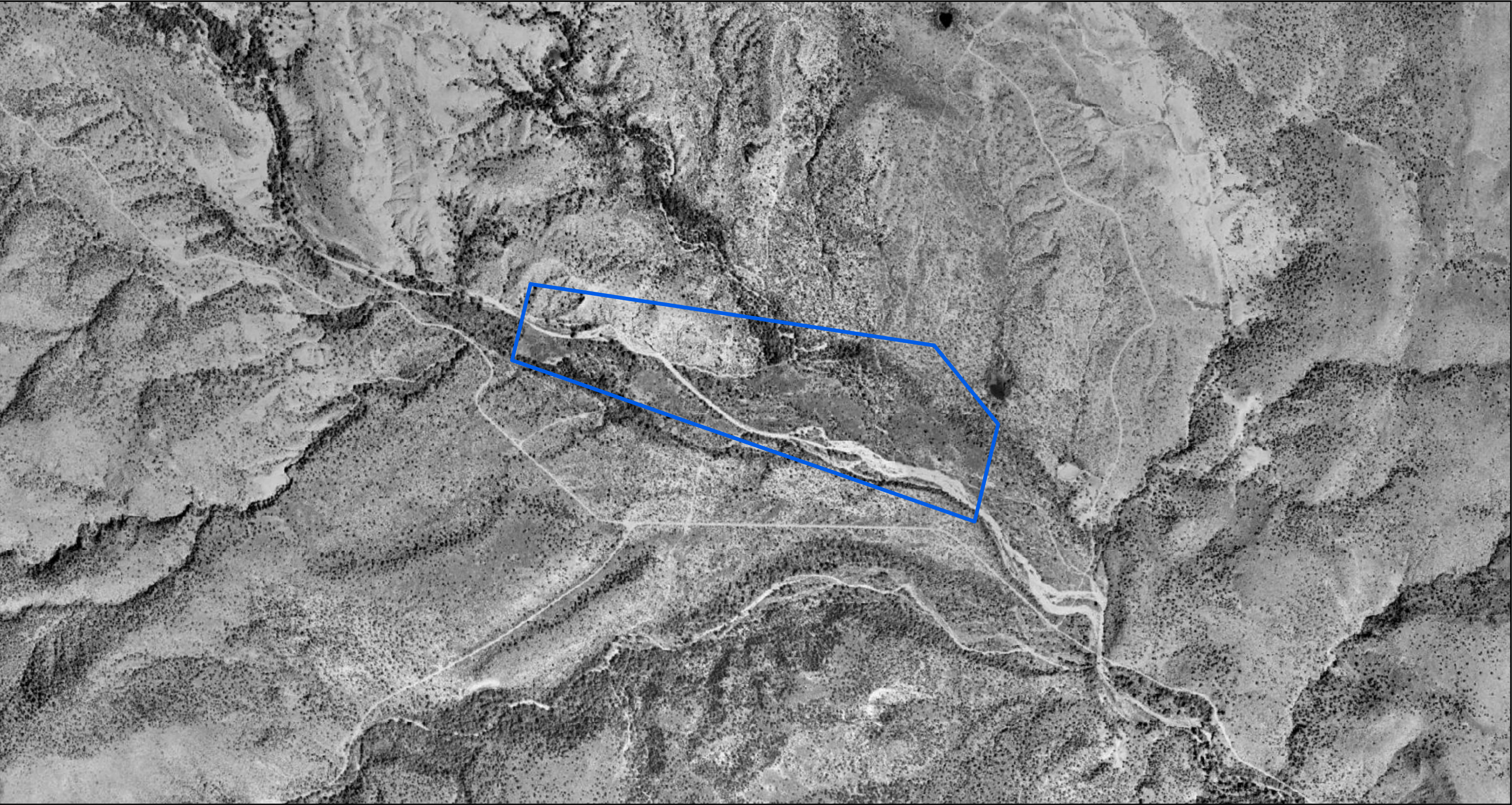


Legend

 Tangle Creek Parcel



RESOLUTION COPPER  
Phase 1 ESA  
TANGLE CREEK PARCEL  
1992 Aerial Photograph

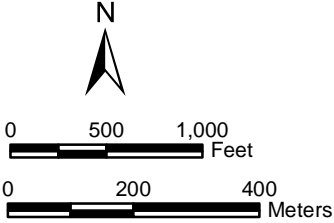


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Yavapai County, Arizona.  
Image Source: 2003 Aerial Photograph  
provided by ERS -  
Environmental Record Search



**Legend**

 Tangle Creek Parcel




**RESOLUTION COPPER**  
**Phase 1 ESA**  
TANGLE CREEK PARCEL  
2003 Aerial Photograph

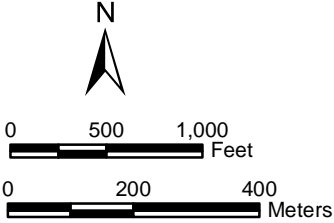


Tangle Creek:  
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Yavapai County, Arizona.  
Image Source: 2010 Aerial Photograph  
provided by ERS -  
Environmental Record Search

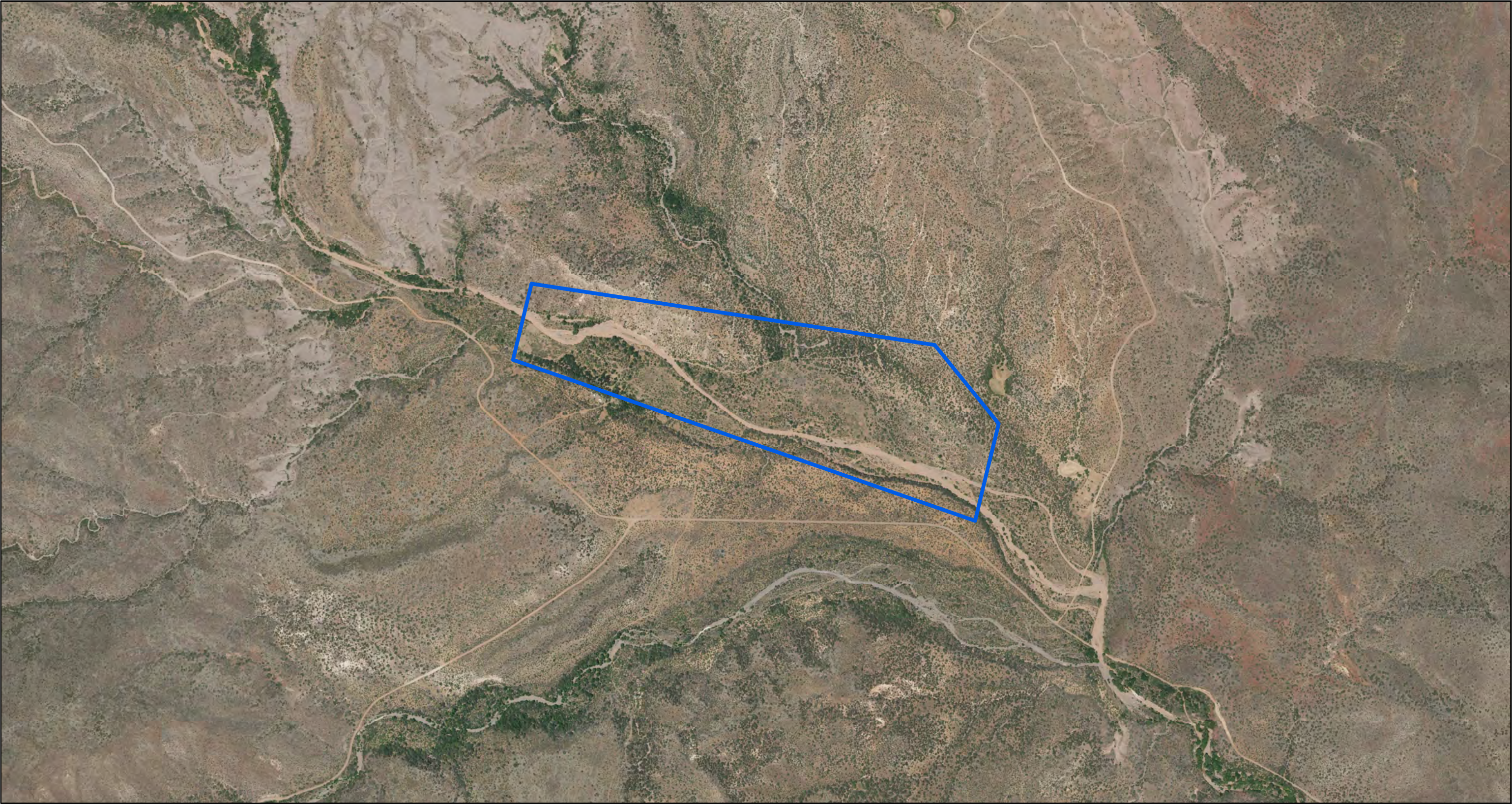


**Legend**

 Tangle Creek Parcel



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**Phase 1 ESA**  
TANGLE CREEK PARCEL  
2010 Aerial Photograph

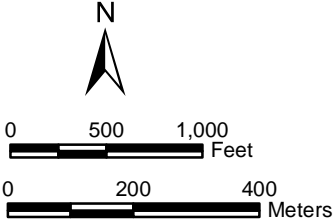


Tangle Creek:  
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Yavapai County, Arizona.  
Image Source: 2015 USDA NAIP Orthophoto



Legend

 Tangle Creek Parcel



RESOLUTION COPPER  
Phase 1 ESA  
TANGLE CREEK PARCEL  
2015 Aerial Photograph

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## **APPENDIX H**

**YAVAPAI COUNTY  
ASSESSOR PROPERTY  
DETAIL & TAX  
RECORDS**

## Yavapai County Print Parcel

	Parcel ID	Check Digit	
	501-25-002	4	
	Owner		
	SWIFT CURRENT LAND & CATTLE LLC		
	Owner's Mailing Address		
	PO BOX 1944 SUPERIOR, AZ 85273		
	Secondary Owner		
	N/A		
	Recorded Date		
	3/25/2005 12:00:00 AM		
Last Transfer Doc Docket	Last Transfer Doc Page		
4246	127		
Physical Address	Incorporated Area		
N/A	N/A		
Assessor Acres	Subdivision	Subdivision Type	
148	N/A	N	
School District	Fire District	County Zoning Violation	
Mayer Unified SD #43	N/A	No Zoning Violation	
Improvements (1)			
Type: Farm Utility Building Floor area: 450 Constructed: 1958			
Assessment			
Starting with the 2015 tax year, the Limited Property Value is the only value considered for taxation purposes, the Full Cash Value is no longer used for taxation.			
2017 Assessed Limited Value	2016 Assessed Limited Value		
\$28,181	\$26,840		
2017 Limited Value	2016 Limited Value		
\$187,875	\$178,929		
2017 Full Cash Value	2016 Full Cash Value		
\$200,526	\$178,929		
2017 Net Assessment Ratio	2016 Net Assessment Ratio		
15	15		
2017 Legal Class	2016 Legal Class		
Vacant or Other	Vacant or Other		
Taxes			
Tax Area Code	2015 Taxes Billed		
4300	\$2,876		
Recorded Documents & Sales (1)			
Date	Book/ Page	Type	Cost
3/25/2005	4246/127	Warranty Deed	\$887,000
<p>Disclaimer: Map and parcel information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against Yavapai County that may arise from the use of this data.</p>			

**Maricopa County Treasurer's Office**

Charles "Hos" Hoskins, Treasurer

**Tax Summary 219-09-001 7****Current Mailing Name & Address**SWIFT CURRENT LAND & CATTLE LLC  
C/O CORPORATION SERVICE COMPANY  
PO BOX 1944  
SUPERIOR, AZ 85173-1944**Legal Description****Section/Lot 28    Township/Block 7N**  
**Range/Tract 4E**EMBRACING PT OF APPROX SEC 21 BEG AT COR  
1 FR WH**2015 Tax Due**

<b>Assessed Tax:</b>	\$3,187.68	<b>Tax Paid:</b>	\$3,187.68	<b>Total Due:</b>	<b>\$0.00</b>
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[View 2015 Tax Details](#)[Create Stub](#)[View Additional Tax Years](#)**Total Amount Due****Status:**                      **Currently up-to-date****Remaining Tax Amount    \$0.00****Due:**

Total amount due does not reflect any pending payments. Amount may change based on activity to this parcel.

**NOTE:** Your property may be subject to additional tax liens listed under previous parcel numbers.

301 West Jefferson, Suite 100, Phoenix, Arizona 85003-2348    (602)506-8511    TT (602)506-  
FAX (602)506-1102    [Disclaimer](#)

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# APPENDIX I

## RÉSUMÉS

### 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

## Mark F. Taylor, P.E.

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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

## Mark F. Taylor, P.E.

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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.

**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 (NWP), 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.

**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 discontinuous 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 RWRP 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.

**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 inquiries; and strict confidentiality protocols.

**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.
-