

PHASE I ENVIRONMENTAL SITE ASSESSMENT DRIPPING SPRINGS, GILA COUNTY, ARIZONA

Resolution Copper

Prepared for:



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EXECUTIVE SUMMARY

WestLand Resources, Inc. (WestLand), was retained by Resolution Copper Mining, LLC (Resolution; the “User”), to perform a Phase I Environmental Site Assessment (ESA) for the Dripping Springs parcel (“the Property”), composed of approximately 160 acres located in Sections 7 and 8 of Township 4 South, Range 15 East of the Gila and Salt River Meridian, in Gila and Pinal Counties, Arizona (**Figure 1**). The Property is presently under non-federal ownership (Resolution) but proposed as part of a land exchange with the BLM under the Southeast Arizona Land Exchange and Conservation Act of 2013. The Property is a private inholding surrounded by lands administrated by the U.S. Bureau of Land Management (BLM) and the Arizona State Land Department (ASLD) located within the Dripping Spring Mountains, north of the town of Hayden, Arizona. The Gila County Assessor Parcel Numbers (APNs) for the Property are 101-01-005 and 101-01-006, which includes the section of land that crosses into Pinal County. An aerial photo showing the boundary of the Property 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 U.S. Environmental Protection Agency’s Standards and Practices for All Appropriate Inquiries (40 CFR Part 312); scope limitations of the American Society for Testing Materials (ASTM) E 2247-16 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property*. 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

The Property is within the Pinal Highlands, the focus of prospecting, mining, and settlement during the historic period. WestLand reviewed a cultural resource inventory report for the Property that includes archaeological research and results of prior records searches (Charest and Lindly 2016). The historical map review for the cultural resource inventory report revealed no cultural resources identified within the project area on any of the historical maps; four mining prospects were depicted north of the Property and several mining claims were revealed southeast of the Property (Charest and Lindly 2016). The site survey revealed that historical activity within the survey area seems to have been confined to limited prospecting (Charest and Lindly 2016).

Environmental Liens/Activity and Use Limitations

On June 18, 2020, 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 on behalf of the User. A search for environmental liens and AULs was completed for each

parcel (APNs 101-01-005 and 101-01-006); no records of environmental liens or AULs associated with the Property were identified. The current Warranty Deed for the Property was executed March 24, 2020 and recorded on April 8, 2020 conveying ownership from Swift Current Land & Cattle LLC to Resolution, a Delaware limited liability company.

Records Review

Environmental Records—WestLand contracted ERS to conduct an electronic search of regulatory agency databases for references to the Property and surrounding lands. The database search (RecCheck Area Report Results) was conducted on June 18, 2020 and included standard and additional federal, tribal, state, local, and supplemental database records, as well as ERS proprietary database records that potentially indicate a recognized environmental condition. 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. There were no records identified at the Property, but one ERS record was identified within the searched distance around the Property. A registered well site is noted immediately north of the Property. The well was drilled in 1983 at a depth of 82 feet and is registered to Janet A. Baron. There is no indication this well is associated with water treatment or disposal.

Prior Environmental Report—A prior Phase I ESA was completed by WestLand in June 2015 (WestLand 2015). The 2015 Phase I ESAs revealed no evidence of RECs in connection with the Property. Information from that report is integrated into this report.

Physical Setting

The Property is located in the rugged uplands northeast of the Gila River. Notable peaks in the vicinity include Steamboat Mountain (rising to 3,373 feet above mean sea level [amsl]) immediately west of the Property and Tam O'Shanter Peak (rising to 4,633 feet amsl) southeast of the Property. The Property is characterized by rugged terrain with considerable vertical relief, composed largely of exposed rock faces, boulders of various sizes, rocky slopes, and generally poor or little soil development.

The Property is located within the Mammoth sub-basin of the Lower San Pedro groundwater basin. In this basin near the Property, the groundwater flow direction is from the mountains south toward the valley floor of the Gila River, and then north. The aquifer in the Mammoth sub-basin is made up of four water-bearing units: the floodplain aquifer, unconfined basin-fill, confined basin-fill, and the fractured and faulted portions of hard rock (WestLand 2016).

Historical Use

None of the past or present land uses for the Property are likely to indicate a REC for the Property. Two adits—horizontal entrances to underground mines—were observed during a prior site reconnaissance (WestLand 2015). The horizontal extent of the two adits, including any vertical components, is unknown. It is possible that additional adits are present elsewhere on the Property in

areas that were not accessed nor observed during site reconnaissance. There is some potential for such historic mine features to produce acid mine drainage or impact groundwater if water accumulates in mineralized rock or waste rock. However, there was no discoloration or distressed vegetation noted around existing surface mining features, and accumulation of water in underground mining features is speculative. While historic mining features provide some potential for impacts to surface or groundwater by contact with mineralized rock, acid mine drainage is not known to be present at the parcel and is not considered likely.

Site Reconnaissance

The Property and surrounding area are generally characterized as undeveloped open space. On July 3, 2020, WestLand engineer, Patrick Mette, and environmental specialist, Samantha Blonder, performed a site reconnaissance to assess existing environmental conditions for the Property. Photographs documenting pertinent features are provided in **Appendix A**. Past use of the Property appears to have been limited to small-scale mine exploration, possibly hiking, and hunting/recreational shooting; a single shotgun shell was observed in 2015 but none were observed in 2020. Rock cairns, likely indicating monuments for survey were also observed at several locations of the Property. There is no road providing vehicular access to the Property. Adjoining land use appears to be similar to the Property and may additionally include cattle ranching. Adjoining lands are managed by BLM and ASLD as shown in **Figure 3**.

Interviews

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

- The report User and Property owner: Sterling Hundley, representative for Resolution;
- Representatives for the BLM were contacted to complete the User Questionnaire for the Property in support of the Southeastern Land Exchange and Conservation Act of 2013. As of the date of this report, a returned questionnaire has not yet been received.

Considering that vehicular access to the Property is not available and that there are no structures known to have been developed at the Property or on adjoining lands, WestLand did not request records from the local fire department or similar agency that would have responded to emergency releases or maintain fuel tank records for the vicinity.

Information provided through the interviews do not 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 2247-16 for the Property. This assessment has revealed no evidence of RECs in connection with the Property.

I. INTRODUCTION

WestLand Resources, Inc. (WestLand), was retained by Resolution Copper Mining, LLC, (Resolution; the “User”), to perform a Phase I Environmental Site Assessment (ESA) for the Dripping Springs parcel (“the Property”), composed of approximately 160 acres located in Sections 7 and 8 of Township 4 South, Range 15 East of the Gila and Salt River Meridian, in Gila and Pinal Counties, Arizona (**Figure 1**). The Property is a private inholding surrounded by lands administrated by the Bureau of Land Management (BLM) and the Arizona State Land Department (ASLD), located within the Dripping Spring Mountains north of the town of Hayden. The Gila County Assessor Parcel Numbers (APNs) for the Property are 101-01-005 and 101-01-006 which includes the section of land that crosses into Pinal County.

I.1. PURPOSE

The purpose of this investigation was to conduct an assessment of the Property and surrounding areas to identify the presence or potential presence of recognized environmental conditions (RECs) potentially resulting in environmental impacts to the Property. According to the American Society for Testing and Materials (ASTM) E 2247-16 guidelines, a REC is defined as: *...the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property.* This term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies. Conditions determined to be *de minimis* are not RECs.

The results of an investigation may be used 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 Phase I ESA is intended to assist the User in satisfying the requirements to qualify for the innocent landowner, contiguous property owner, or bonafide prospective purchaser limitations of CERCLA. In order to qualify for one of the Landowner Liability Protections, the report User must provide certain information to the environmental professional conducting the Phase I ESA. This information can be provided by completing the User Questionnaire. Failure to provide this information could result in a determination that the All Appropriate Inquiry is not complete. Additionally, the Property owner has continuing obligations, if applicable, to receive liability protections in addition to the All Appropriate Inquiry. The continuing obligations include: 1) compliance with land use restrictions; 2) not impeding the effectiveness or integrity of institutional controls; 3) taking reasonable steps to prevent releases; 4) providing assistance and access to the U.S. Environmental Protection Agency (EPA), state, or other

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

I.2. SCOPE OF SERVICES

This Phase I 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 2247-16). 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 site 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 2247-16 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 Phase I 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.

Site 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, information collected, and conditions during the site visit. A change in 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 and the BLM in support of the Southeastern Land Exchange and Conservation Act of 2013. This Phase I ESA may not be relied upon by any other person or entity without the written consent of WestLand.

I.6. CONTINUED VIABILITY

ASTM E 2247-16 guidelines require that certain components of a Phase I ESA be completed less than 180 days prior to the date of acquisition or the intended transaction if no acquisition is involved; therefore, its useful life is limited. 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 1 year. The above-listed components can be updated separately in order to eliminate redundant environmental due diligence efforts within 1 year. After 1 year has passed, all Phase I ESA components should be redone. The prior Phase I 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. Photographs depicting the Property and vicinity are provided in **Appendix A**. A recent aerial photograph depicting the Property and vicinity is provided as **Figure 2**.

2.1. LOCATION AND LEGAL DESCRIPTION

The Property is situated within the Dripping Spring Mountains, north of Hayden, Arizona. Specifically, the Property is located in the north half of the southeast quarter of Section 7 and north half of the southwest quarter of Section 8, Township 4 South, Range 15 East of the Gila and Salt River Meridian, Gila and Pinal counties, Arizona (**Figure 1**). The Gila County APNs for the Property are 101-01-005 and 101-01-006, which includes the section of land that crosses into Pinal County.

2.2. SITE AND VICINITY GENERAL CHARACTERISTICS

The Property is located in the rugged uplands northeast of the Gila River. Notable peaks in the vicinity include Steamboat Mountain (rising to 3,373 feet above mean sea level [amsl]) immediately west of the Property and Tam O'Shanter Peak (rising to 4,633 feet amsl) southeast of the Property. The Property is characterized by rugged terrain with considerable vertical relief, composed largely of exposed rock faces, boulders of various sizes, rocky slopes, and generally poor or little soil development.

2.3. CURRENT USE OF THE PROPERTY

The Property is generally characterized as undeveloped open space. Use appears to be limited to infrequent recreational use, including hunting and hiking. There is no road access to the Property, and access for the site reconnaissance was limited to targeted pedestrian survey.

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

Because 100-percent pedestrian survey coverage of the Property was not considered reasonable or necessary, WestLand reviewed available information including aerial photography and U.S. Geological Survey (USGS) topographic maps to estimate the amount, and type of human disturbance present within the Property. Results of this review, as well as observations made during the site reconnaissance, indicate the presence of two mine adits located near the center of the Property. No other human improvements were observed in aerial photographs, in topographic maps, or during the limited pedestrian survey of the Property.

2.5. CURRENT USES OF ADJOINING PROPERTIES

Land use in all directions of the Property and surrounding lands is characterized by open space. Adjoining land use may also include cattle ranching.

3. USER PROVIDED INFORMATION

The report User and landowner is Resolution who provided relevant information about the Property. The User and landowner representative contact is Mr. Sterling Hundley. A copy of the User Questionnaire is provided as **Appendix B**.

On August 6, 2020, WestLand contacted Colleen Bergmanis (cbergmanis@blm.gov), representative for the BLM, and requested that the User Questionnaire be completed for the Property in support of the Southeastern Land Exchange and Conservation Act of 2013. As of the date of this report, a returned questionnaire has not yet been received. If the User Questionnaire is received after this report is finalized, it may be incorporated into the Phase I ESA report as an addendum to assist the BLM in qualifying for landowner liability protections.

3.1. TITLE RECORDS

WestLand was provided the Warranty Deed for the Property that accompanied the search of available land title records for environmental liens and AULs on the Property (Gila County APNs 101-01-005 and 101-01-006). The current Warranty Deed for the Property was executed March 24, 2020 and recorded on April 8, 2020 conveying ownership from Swift Current Land & Cattle LLC to Resolution, a Delaware limited liability company. The deed is included with **Appendix C**.

3.2. ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

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

WestLand engaged Environmental Record Search (ERS), to conduct a search of available land title records for environmental liens and AULs on the Property on behalf of the User. A search for environmental liens and AULs was completed for each parcel on June 18, 2020; no records of environmental liens or AULs associated with the Property were identified (**Appendix C**). Copies for the deeds associated with the Property are included in the environmental lien and AULs report.

3.3. SPECIALIZED KNOWLEDGE

The User provided no information regarding specialized knowledge regarding the Property. In previous inquiries, it was reported that livestock grazing is known to occur on adjoining properties. Adjoining properties are managed by the BLM and ASLD, as depicted in **Figure 3**.

3.4. COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

No commonly known or reasonably ascertainable information relevant to potential RECs was provided by the User. Mr. Hundley reported that prior land use at the Property has been limited to ranching activities.

3.5. VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

The User reported that there has been no valuation reduction for the Property related to environmental issues.

3.6. REASON FOR PERFORMING PHASE I ESA

The User states that the Phase I was being performed to identify RECs requiring additional investigation relating to a land exchange property transaction with the BLM under the Southeast Arizona Land Exchange and Conservation Act of 2013.

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 vicinity. The database search (RecCheck Area Report Results) was conducted on June 18, 2020, and included standard and additional federal, tribal, state, local, and supplemental database records, as well as ERS proprietary database records. The regulatory agency databases were queried by conducting a search from the boundaries of the Property to the minimum search distance recommended by the ASTM standard. A copy of the ERS environmental reports that describes the databases searched, search distances, record details for the search results, and the dates the databases were last updated is provided in **Appendix D**.

There were no records identified at the Property, but one ERS record was identified within the searched distance around the Property. A registered well site is noted immediately north of the Property, was drilled in 1983 at a depth of 82 feet, and is registered to Janet A. Baron. There is no indication this well is associated with water treatment or disposal.

4.2. PRIOR ENVIRONMENTAL REPORTS

A prior Phase I ESA was completed by WestLand in June 2015 (WestLand 2015), which revealed no evidence of RECs in connection with the Property. Information from that report is integrated into this report.

4.3. PHYSICAL SETTING

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

4.3.1. Topography

The Property is located in the Dripping Spring Mountains, north of Hayden, Arizona. Elevations range from 3,480 to 4,360 feet amsl within the Property boundaries. Regionally, the Property is within the Basin and Range physiographic province. The province is characterized by elongated mountain ranges trending northwest-southeast, separated by broad alluvial valleys. It is within the Dripping Spring Wash Basin that is bounded on the west by the Dripping Spring Mountains and on the northeast by the Pinal and Mescal mountains (ADWR 2009, Coates 1955). The basin covers approximately 378 square miles (ADWR 2009). The Dripping Spring Wash Basin is drained by

Dripping Spring Wash, a tributary of the Gila River, located in the valley to the south of the parcel. The elevation range within the Dripping Spring Wash Basin is 1,900 feet to 5,515 feet amsl (ADWR 2009).

4.3.2. Soils

Soil data provided by the National Cooperative Soil Survey through Web Soil Survey (Soil Survey Staff 2020)¹ indicate that the Property is located within three soil complexes. The soil complexes are generally well-drained and occur on mountains and fan terraces.

The Chiricahua Deloro Leyte complex comprises 92 percent of the parcel and consists of shallow, well-drained soils formed in alluvium. Soils are on pediments, hills, and mountains. Slopes range from 10 to 50 percent. Permeability is very low to moderately low.

The Stagecoach Delnorte complex comprises approximately eight percent of the parcel and consists of well-drained soils on fan terraces. The complex is approximately 55 percent Stagecoach soils and 35 percent Delnorte soils. The Stagecoach series consists of very deep, well-drained soils formed in mixed alluvium with slopes of 0 to 60 percent. Permeability is moderately rapid. The Delnorte series consists of soils that are very shallow and shallow to a petrocalcic horizon. They are well-drained soils that are moderately rapidly permeable above and below a very slowly permeable petrocalcic horizon. They formed in calcareous loamy materials containing igneous gravel. These soils are on nearly level hilly uplands, fan piedmonts, and fan remnants. Slope ranges from 0 to 30 percent. (Soil Survey Staff 2020).

The Holguin Rock Outcrop complex comprises less than 1 percent of the Dripping Springs parcel. The Holguin series consists of very shallow and shallow, well-drained, low to moderately low permeability soils formed on mountains. Rock outcrop comprises 35 percent of this soil complex (Soil Survey Staff 2020).

4.3.3. Geology

The Property is located within the USGS Hayden 7.5-minute topographic (1:24,000) quadrangle which has been described in detail by Banks and Krieger (1977). The Hayden quadrangle is dominated by the Dripping Spring Mountains that trend northwest-southwest through the center. The range is bounded by the Dripping Springs Valley to the north and the Gila River Valley to the south. These valleys were depositional basins for thick colluvial and lacustrine sediments of the Miocene age. Faulting and erosion have exposed Oligocene sediments in the Gila River Valley. Precambrian rocks are found in the southwest corner of the quadrangle. The surface geology of the Property is predominantly Middle Proterozoic Sedimentary Rocks. A fault bisects the Property and defines the boundary between two tilted fault blocks. The western portion of the Property is mapped as Mississippian, Devonian, and Cambrian Sedimentary Rocks (Richard et al. 2000).

¹ Accessed online on August 29, 2020.

4.3.4. Hydrology

There appears to be no perennial or intermittent surface water features within the Property, based on review of recent aerial photography and topographic mapping, and the site reconnaissance. Several minor ephemeral headwater drainage features that are tributaries to the Gila River occur at the Property. The National Wetlands Inventory (NWI) map identifies no wetlands within the Property (USFWS 2020)².

The Property has been mapped by the Federal Emergency Management Agency (FEMA) on Flood Insurance Rate Map (FIRM) panel nos. 04007C2550D and 04021C1000E, effective December 4, 2007. The Property is mapped as Zone D, denoting areas where FEMA has not conducted flood hazard analysis and the potential flood hazard has not been determined.

4.3.5. Hydrogeology

The Property is located within the Mammoth sub-basin of the Lower San Pedro groundwater basin. In this basin near the Property, the groundwater flow direction is from the mountains south toward the valley floor of the Gila River, and then north. The aquifer in the Mammoth sub-basin is made up of four water-bearing units: the floodplain aquifer, unconfined basin-fill, confined basin-fill, and the fractured and faulted portions of hard rock (WestLand 2016). The most productive of these is the floodplain aquifer, which parallels the major waterways and is composed of gravel, sand, silt, and clay. The primary recharge in the area occurs from mountain front recharge and streambed infiltration (ADEQ 2005). The main source of groundwater is the alluvium of Dripping Springs Wash (ADEQ 2005).

The ADWR well registry database contains data for two wells within a 1-mile radius of the parcel (ADWR 2020)³. These referenced wells lie within the same elevation range as the Property (3,480 to 4,360 feet). The nearest reference well is located just north of the Property boundary at an elevation of approximately 3,860 feet and is drilled to a depth of 82 feet (ADWR 2020). This record corresponds to the ERS report for a well immediately north of the Property. The second ADWR reference well is located east of the parcel near the 1-mile buffer boundary at an elevation of approximately 4,230 feet and is drilled to a depth of 3 feet, thus, it is likely non-functional. This would explain why the second well did not appear in the ERS report (ADWR 2020). The depth-to-water being a maximum of 29 feet for these wells shows that the groundwater is relatively shallow below the ground surface.

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

² Accessed online July 29, 2020.

³ Accessed online July 29, 2020.

requires reviewing only as many standard historical sources as are reasonably ascertainable and likely to be useful.

The Property is within the Pinal Highlands, the focus of prospecting, mining, and settlement during the historic period. WestLand reviewed a cultural resource inventory report for the Property that includes archaeological research and results of prior records searches (Charest and Lindly 2016). The historical map review for the cultural resource inventory report revealed no cultural resources identified within the project area on any of the historical maps; four mining prospects were depicted north of the Property and several mining claims were revealed southeast of the Property (Charest and Lindly 2016). The site survey revealed that historical activity within the survey area seems to have been confined to limited prospecting (Charest and Lindly 2016).

4.4.1. Historical Topographic Maps

WestLand reviewed USGS topographic maps of the Property and its vicinity dated 1939, 1964, and 2014 (**Appendix E**). Topographic maps depict both natural and developed features, including wells, structures, and other indications of historical use. The following summary presents WestLand's review of the identified mapped features on or near the Property in chronological sequence.

The 1939 7.5-minute Ray quadrangle map (1:24,000 scale) depicts natural features including mountains, canyons, drainages, and streams at and surrounding the Property. There are no developed features identified at the Property on this map. Steamboat Mountain and Tam O' Shanter Peak are identified west and east of the Property, respectively. Springs are depicted offsite north and west of the Property. Developed features on surrounding lands include unimproved roads and water troughs more than 1 mile from the Property boundary.

The 1964 7.5-minute Hayden quadrangle map (1:24,000 scale) depicts the Property in the same condition as the previous map. Additional map coverage of the surrounding area depicts additional off-site springs and unimproved roads on land surrounding the Property, wells northeast of the Property, and the San Bernardo Jr. Mine and Santa Monica Camp more than 2 miles east of the Property.

The 2014 7.5-minute Hayden quadrangle map (1:24,000 scale) does not depict any developed features at the Property or immediate vicinity. This map names an off-site spring identified on prior maps and shows additional road development along Dripping Spring Wash, northeast of the Property.

4.4.2. Historical Aerial Photographs

WestLand reviewed two historical aerial photographs depicting the Property and vicinity dating from 1953 and 1974 (**Appendix E**). WestLand reviewed the maps for evidence of anthropomorphic disturbance and to identify any historical land uses that might have involved the use, treatment, storage, disposal, or generation of hazardous substances, or petroleum products. WestLand used digital versions of these maps and enlarged selected areas to observe features at and in the near vicinity of the Property.

Both the 1956 and 1974 aerial photographs depict the Property and approximately 1 mile surrounding the Property in all directions. Neither of these photos indicates development at the Property. There is some land scarring located near Steamboat Mountain between 1,000 and 2,000 feet west of the Property on the 1953 aerial photograph suspected to be associated with mine exploration or cattle ranching activities.

4.4.3. Property Tax Files

WestLand obtained the property tax maps for the Property and adjoining areas from the Gila County Assessor. The Property map and parcel details are included in **Appendix G**. This map identifies land surrounding the Property as administrated by the BLM and ASLD. The approximate Gila and Pinal County line is also depicted along the west boundary of the Property.

WestLand also obtained Gila County Property Reports (**Appendix H**) for both parcels comprising the Property (APNs 101-01-005 and 101-01-006). Both parcels are owned by Resolution, as conveyed from the Swift Current Land & Cattle LLC in April 2020. Each parcel is 80 acres and designated for agricultural use and as ranch property with no record of any buildings. The legal description for APN 101-01-006 includes reference to Springs Permit, likely named for the previous owner. Prior ownership records a deed exchange from Dripping Springs Ranch LLC to the Swift Current Land & Cattle LLC on February 5, 2007 and prior ownership is expected to be limited to ranch or mine ownership.

4.4.4. Local Street Directories

Based on the rural nature 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.

4.4.6. Other Historical Sources

WestLand reviewed data obtained from the USGS Mineral Resource Data System (MRDS; USGS 2020) to obtain general information on the mines in the immediate vicinity of the Property. There are no records for mine sites at the Property in this database. WestLand reviewed records within 1 mile from the boundary of the Property and identified one record: Copper Chief Group, which is recorded as a surface-underground prospect for Tungsten, vanadium, gold, silver, and lead (Record 10137888). It is noted that the MRDS states that the exact location of the deposit has not been verified for the USGS record.

5. SITE RECONNAISSANCE

On July 3, 2020 WestLand engineer, Patrick Mette, and environmental specialist, Samantha Blonder, performed a site reconnaissance to assess existing environmental conditions for the Property. Photographs documenting pertinent features are provided in **Appendix A**.

5.1. METHODOLOGY AND LIMITING CONDITIONS

Prior to conducting the site reconnaissance, WestLand reviewed current and historical aerial photographs and topographic maps to identify the location of any suspect areas, including roadways, cleared areas, disturbed soils, and structures. Areas of known concentrated human activity are typically assessed in greater detail because these areas present the most potential for impacts by hazardous materials and petroleum products. Any suspect areas must be “ground-truthed” when using remote methods. There were no suspect areas at the Property or vicinity identified by the preliminary map review.

There were no limitations in access to the Property; however, as there are no roads directly to the Property, which was accessed on foot. Considering the limited development of the Property and results of the remote aerial photograph and topographic map review, the site reconnaissance effort was focused to the west half of the Property where pedestrian access was most efficient. WestLand observed portions of the east half of the Property from vantage points near the center of the Property. WestLand’s reconnaissance included the Property as well as observations of the adjoining properties from publicly accessible areas.

Site 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, information collected, and conditions during the site reconnaissance. A change in those conditions may alter the findings and conclusions of this report.

5.2. INDICATIONS OF PAST USES OF THE PROPERTY

Past use of the Property appears to have been limited to small-scale mine exploration, possibly hiking, and hunting/recreational shooting; a single shotgun shell was observed in 2015 (**Appendix A, Photo 6**) but none were observed in 2020. Two adits—horizontal entrances to underground mines—were also observed during the 2015 site reconnaissance (**Appendix A, Photos 1 through 4**). Additionally, rock cairns, likely indicating monuments for survey were observed at several locations within the Property (**Appendix A, Photo 7**). There is no indication that hazardous materials or petroleum products have been present at the Property.

5.3. EXTERIOR OBSERVATIONS

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

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

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

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

5.3.3. Storage Tanks (Aboveground and Underground)

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

5.3.4. Unidentified Substance Containers

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

5.3.5. Drums

There were no drums observed at the Property or on adjoining land.

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

No wells were observed at the Property or on adjoining land.

5.3.11. Stained Soil or Pavement

No stained soil or pavement was noted.

5.3.12. Stressed Vegetation

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

5.3.13. Solid Waste Disposal

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

The Property appears to be generally clean of solid waste.

5.3.14. PCB Equipment

Concern over the toxicity and persistence in the environment of polychlorinated biphenyls (PCBs) led Congress in 1976 to enact §6(e) of the Toxic Substances Control Act (TSCA), which included prohibitions on the manufacture, processing, and distribution in commerce of PCBs. Historically, electrical transformers contained a cooling liquid that had PCBs. If present, electrical transformers or hydraulic equipment could provide the potential for release of PCBs onto the Property. In 1984, manufacturers began producing non-PCB transformers that contain less than 50 parts per million of PCBs.

No potential PCB containing equipment was observed during the site reconnaissance.

5.4. INTERIOR OBSERVATIONS

Not applicable.

6. INTERVIEWS

6.1. INTERVIEW WITH OWNER

On August 6, 2020, Sterling Hundley completed the User Questionnaire and a project-specific Owner Questionnaire. Sterling Hundley indicated that to his knowledge, the Property has been vacant and formal land use has been limited to ranching. The Property is not known to have been used for storage of hazardous materials or petroleum products. He is not aware of any information potentially pointing to a REC for the Property. Responses to numerous specific inquiries are included in **Appendix B**.

6.2. INTERVIEWS WITH SITE MANAGER (SITE CONTACTS)

See Interview with Owner (**Section 6.1**).

6.3. INTERVIEW WITH OCCUPANTS

Not applicable.

6.4. INTERVIEW WITH LOCAL GOVERNMENT OFFICIALS

Considering that vehicular access to the Property is not available and that there are no structures known to have been developed at the Property or on adjoining lands, WestLand did not request records from the local fire department or similar agency that would have responded to emergency releases or have records of tank storage in the vicinity.

6.5. INTERVIEW WITH OTHERS

On August 6, 2020, WestLand contacted representatives for the BLM and requested that the User Questionnaire be completed for the Property in support of the Southeastern Land Exchange and Conservation Act. As of the date of this report, a returned questionnaire has not yet been received. If the User Questionnaire is received after this report is finalized, it may be incorporated into the Phase I ESA report as an addendum to assist the BLM in qualifying for landowner liability protections.

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, site reconnaissance of the Property, prior reports, and interviews, WestLand provides the following findings and opinions pertaining to the Property:

- The Property is within the Pinal Highlands, the focus of prospecting, mining, and settlement during the historic period. WestLand reviewed a cultural resource inventory report for the Property that includes archaeological research and results of prior records searches (Charest and Lindly 2016). The historical map review for the cultural resource inventory report revealed no cultural resources identified within the project area on any of the historical maps; four mining prospects were depicted north of the Property and several mining claims were revealed southeast of the Property (Charest and Lindly 2016). The site survey revealed that historical activity within the survey area seems to have been confined to limited prospecting (Charest and Lindly 2016).
- The Property and surrounding area are generally characterized as undeveloped open space. On June 3, 2020, WestLand environmental specialists performed a site reconnaissance to assess existing environmental conditions for the Property. Photographs documenting pertinent features are provided in **Appendix A**. Past use of the Property appears to have been limited to small-scale mine exploration, possibly hiking, and hunting/recreational shooting; a single shotgun shell was observed in 2015 but none were observed in 2020. Rock cairns, likely indicating monuments for survey were also observed at several locations of the Property. There is no road providing vehicular access to the Property. Adjoining land use appears to be similar to the Property and may additionally include cattle ranching and larger-scale mining operations more than 1 mile from the Property. Adjoining lands are managed by the BLM and ASLD.
- None of the past or present land uses for the Property likely indicate a REC for the Property. Two adits were observed on the Property; the horizontal extent of the two adits, including any vertical components, is unknown. The location of the adits observed during the site reconnaissance is provided in **Figure 2**. There is some potential for such historic mine features to produce acid mine drainage or impact groundwater if water accumulates in mineralized rock or waste rock. However, there was no discoloration or distressed vegetation noted around existing surface mining features, and accumulation of water in underground mining features is speculative. While historic mining features provide some potential for impacts to surface or groundwater by contact with mineralized rock, acid mine drainage is not known to be present at the parcel and is not considered likely.
- On June 18, 2020 WestLand engaged ERS, to conduct a search of available land title records for environmental liens and AULs on the Property on behalf of the User. A search for environmental liens and AULs was completed for each parcel (Gila County APNs. 101-01-005 and 101-01-006); no records of environmental liens or AULs associated with the Property

were identified). The current Warranty Deed for the Property was executed March 24, 2020 and recorded on April 8, 2020 conveying ownership from Swift Current Land & Cattle LLC to Resolution, a Delaware limited liability company. The deed is included with **Appendix C**.

- WestLand contracted with ERS to conduct an electronic search of regulatory agency databases for references to the Property and surrounding lands. The database search (RecCheck Area Report Results; **Appendix D**) was conducted on June 18, 2020 and included standard and additional federal, tribal, state, local, and supplemental database records, as well as ERS proprietary database records that potentially indicate a recognized environmental condition. 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. There were no records identified at the Property, but one ERS record was identified within the searched distance around the Property. A registered well site is noted immediately north of the Property, was drilled in 1983 at a depth of 82 feet, and is registered to Janet A. Baron. There is no indication this well is associated with water treatment or disposal.
- WestLand interviewed Sterling Hundley who completed the User Questionnaire and a project-specific Owner Questionnaire. He is not aware of any information potentially pointing to a REC for the Property.
- Considering that vehicular access to the Property is not available, and that there are no structures known to have been developed on the Property or adjoining lands, WestLand did not request records from the local fire department or similar agency that would have responded to emergency releases or maintain fuel tank records for the vicinity.

8. CONCLUSION

WestLand has performed a Phase I ESA in conformance with the scope and limitations of ASTM E 2247-16 for the Property (**Figure 1**). Any exceptions to, or deletions from, this practice are described in **Section 9** of this report.

This assessment has revealed no evidence of RECs in connection with 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 the Property is rural in nature, developed use is limited to small-scale mining, and there is no other documented or suspected use of the Property, WestLand did not conduct a city directory search, Sanborn Fire Insurance Map search, building department record search, or other historic record searches. Similarly, there were also no local government interviews conducted. There were no data failures or limitations potentially affecting conclusions regarding the identification of RECs for the Property (site access limitations, physical obstructions to observations, outstanding information requests, historical data failure, etc.). Considering the known history of the site and results of site reconnaissance and other completed research, this assessment is considered complete.

On August 6, 2020, WestLand contacted representatives for the BLM and requested that the User Questionnaire be completed for the Property in support of the Southeastern Land Exchange and Conservation Act. As of the date of this report, a returned questionnaire has not yet been received. If the User Question is received after this report is finalized, it may be incorporated into the Phase I ESA report as an addendum to assist the BLM in qualifying for landowner liability protections.

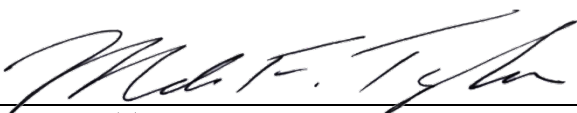
10. ADDITIONAL SERVICES

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

II. QUALIFICATIONS AND SIGNATURE OF ENVIRONMENTAL PROFESSIONALS

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. Mark 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.

Mark Taylor is the leading environmental professional assigned to perform project oversight for this ESA. Patrick Mette and Samantha Blonder conducted the site reconnaissance under the direction of Christopher Rife. Diana Sandoval conducted the interviews, regulatory inquiries, and historical research. Christopher Rife reviewed the findings in this report. Their work was conducted under the supervision of the above-named environmental professional. Mark Taylor reviewed, interpreted, and declared the information included in this report as complete. Resumes for the key individuals participating in the preparation of this report are provided in **Appendix I**.



Mark F. Taylor, P.E.

09/04/2020

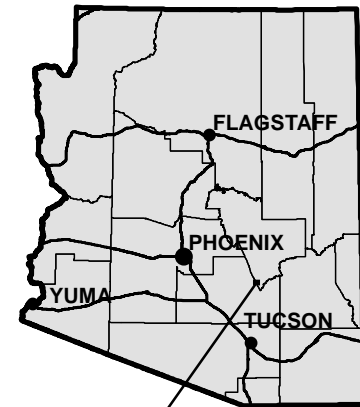
Date

12. REFERENCES

- American Society for Testing and Materials. 2016. Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property. *ASTM E2247-16*. Conshohocken, Pennsylvania: ASTM International, West.
- Arizona Department of Environmental Quality. 2005. Ambient Groundwater Quality of the Dripping Springs Wash Basin: A 2004-2005 Baseline Study. Phoenix, Arizona.
- Arizona Department of Water Resources. 2009. Arizona Water Atlas Volume 3 Southeastern Arizona Planning Area. Phoenix, Arizona. June 2009.
- _____. 2020. "Arizona Wells Registry (Wells55)." <https://gisweb3.azwater.gov/WellReg#>. Arizona Department of Water Resources.
- Banks, N.G., and Krieger, M.H. 1977. Geologic Map of the Hayden Quadrangle, Pinal and Gila Counties, Arizona.
- Charest, Jeffrey P., and John Lindly. 2016. A Cultural Resources Inventory of 159.64 Acres for the Dripping Spring Land Exchange, Gila and Pinal Counties, Arizona. *Cultural Resources Report 2015-36 Prepared for Resolution Copper*. Tucson, Arizona: WestLand Resources, Inc. September 28, 2016.
- Coates, Donald R. 1955. Memorandum Of The Geology. U.S. Geological Survey. Tucson, Arizona: U.S. Department of the Interior. May 1955.
- Richard, S.M., S.J. Reynolds, J.E. Spencer, and P.A. Pearthree. 2000. Geologic Map of Arizona: Arizona Geological Survey, Map 35, scale 1:1,000,000. *USGS Open-File Report 2005-1305*: National Geologic Map Database.
- Soil Survey Staff. 2020. "Web Soil Survey." U.S. Department of Agriculture. <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>.
- U.S. Fish and Wildlife Service. 2020. "Wetlands Mapper National Wetlands Inventory." <https://www.fws.gov/wetlands/data/Mapper.html>.
- U.S. Geological Survey. 2020. "Mineral Resources Online Spatial Data." U.S. Department of the Interior. <https://mrdata.usgs.gov/general/map-us.html>.
- WestLand Resources, Inc. 2015. Phase I Environmental Site Assessment: Non-Federal Parcel, Dripping Springs Gila County, Arizona. *Prepared for Resolution Copper Mining, LLC*. Tucson, Arizona: WestLand Resources, Inc. June 24, 2015.
- _____. 2016. Ecological Overview Dripping Springs Parcel Gila and Pinal Counties, Arizona. *Prepared for Resolution Copper*. Tucson, Arizona: WestLand Resources, Inc. December 2016.

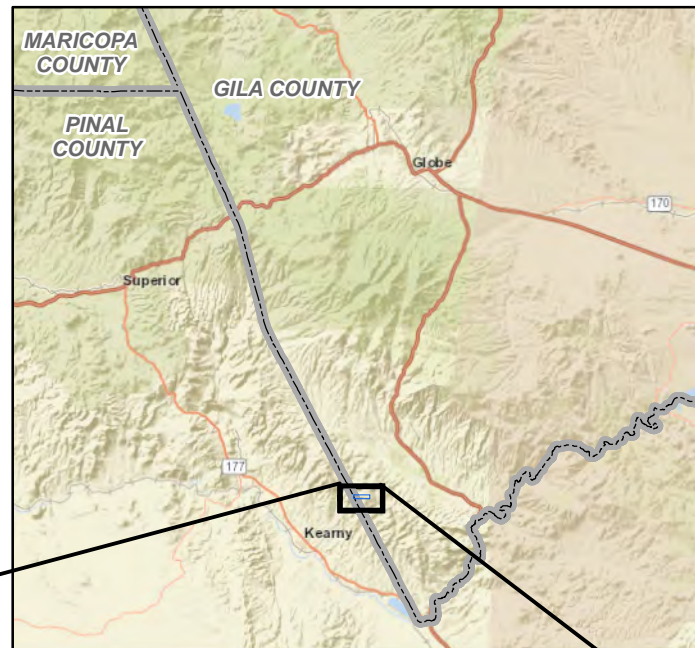
FIGURES

ARIZONA

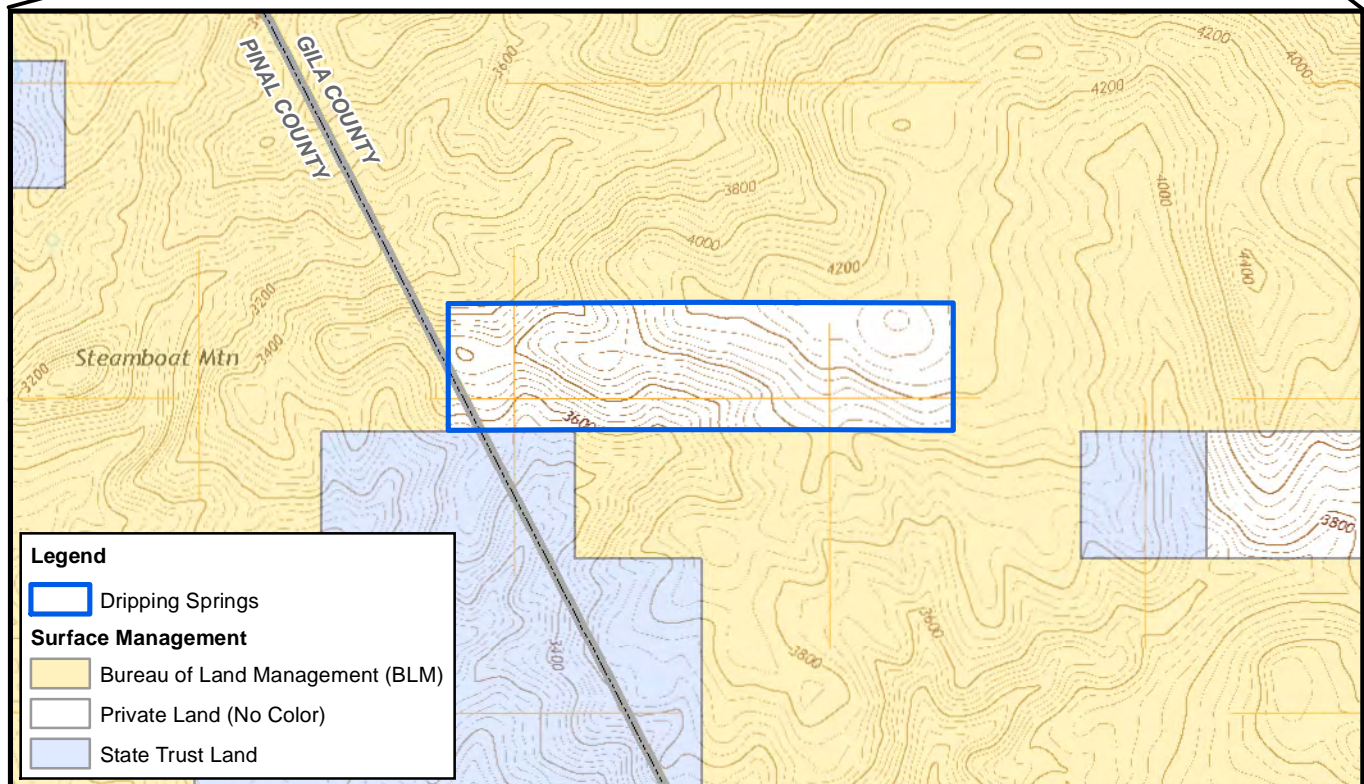


PROJECT LOCATION

PROJECT VICINITY



Approximate Scale 1 Inch = 12 Miles



T4S, R15E, Portions of Sections 7 and 8,
 Pinal and Gila Counties, Arizona
 Hayden USGS 7.5' Quadrangle (2018)
 Surface Management: BLM 2019, WRI modified 2019
 Image Source: ArcGIS Online, World Street Map

RESOLUTION COPPER

Phase I ESA for
Dripping Springs

VICINITY MAP

Figure 1



T4S, R15E, Portions of Sections 7 and 8,
Pinal and Gila Counties, Arizona
Data Source: ADWR, Groundwater Site Inventory 01/07/2020
Image Source: USDA NAIP 2019

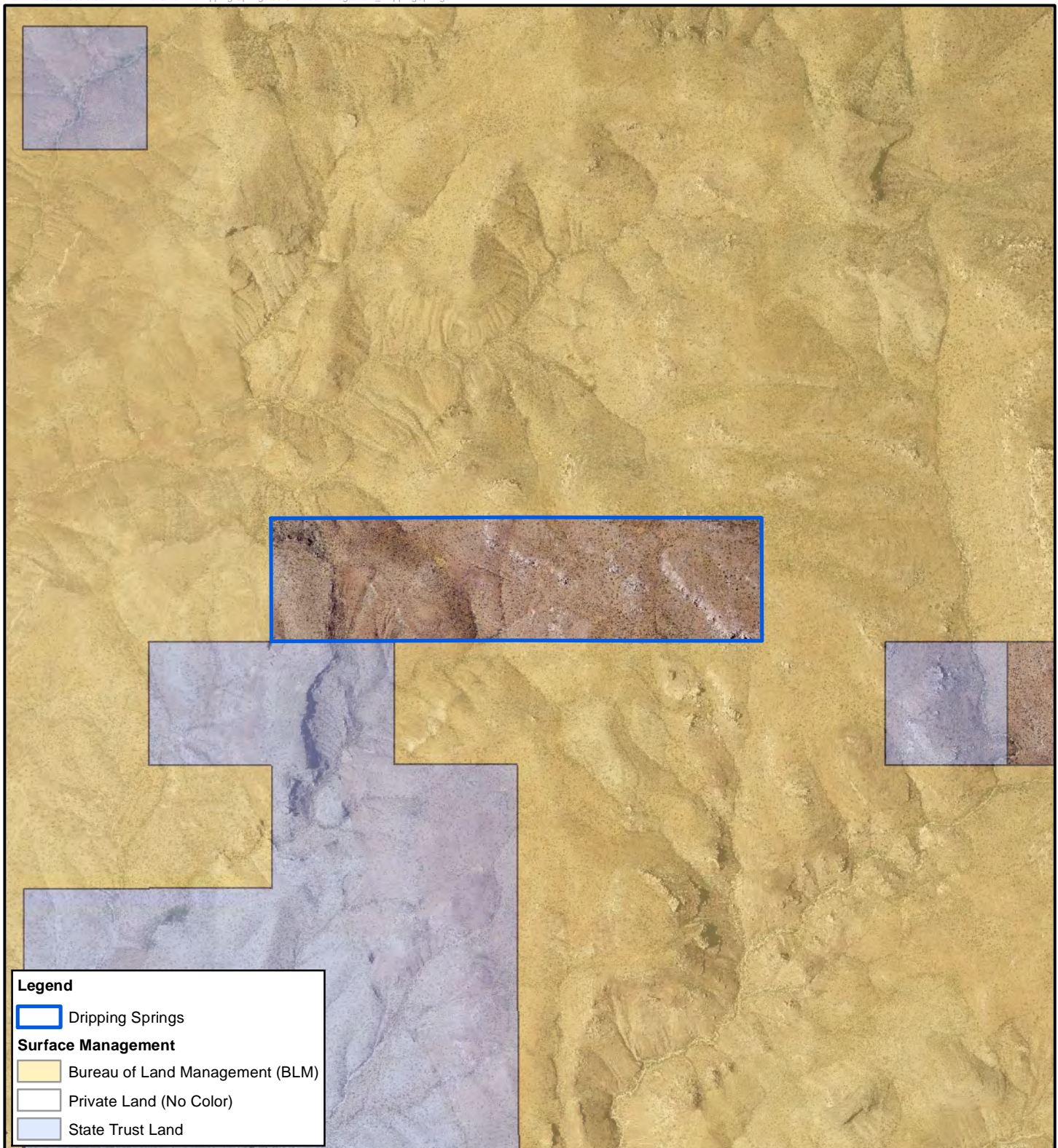
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Phase I ESA for Dripping Springs

AERIAL OVERVIEW WITH
ADWR REGISTERED WELLS

Figure 2





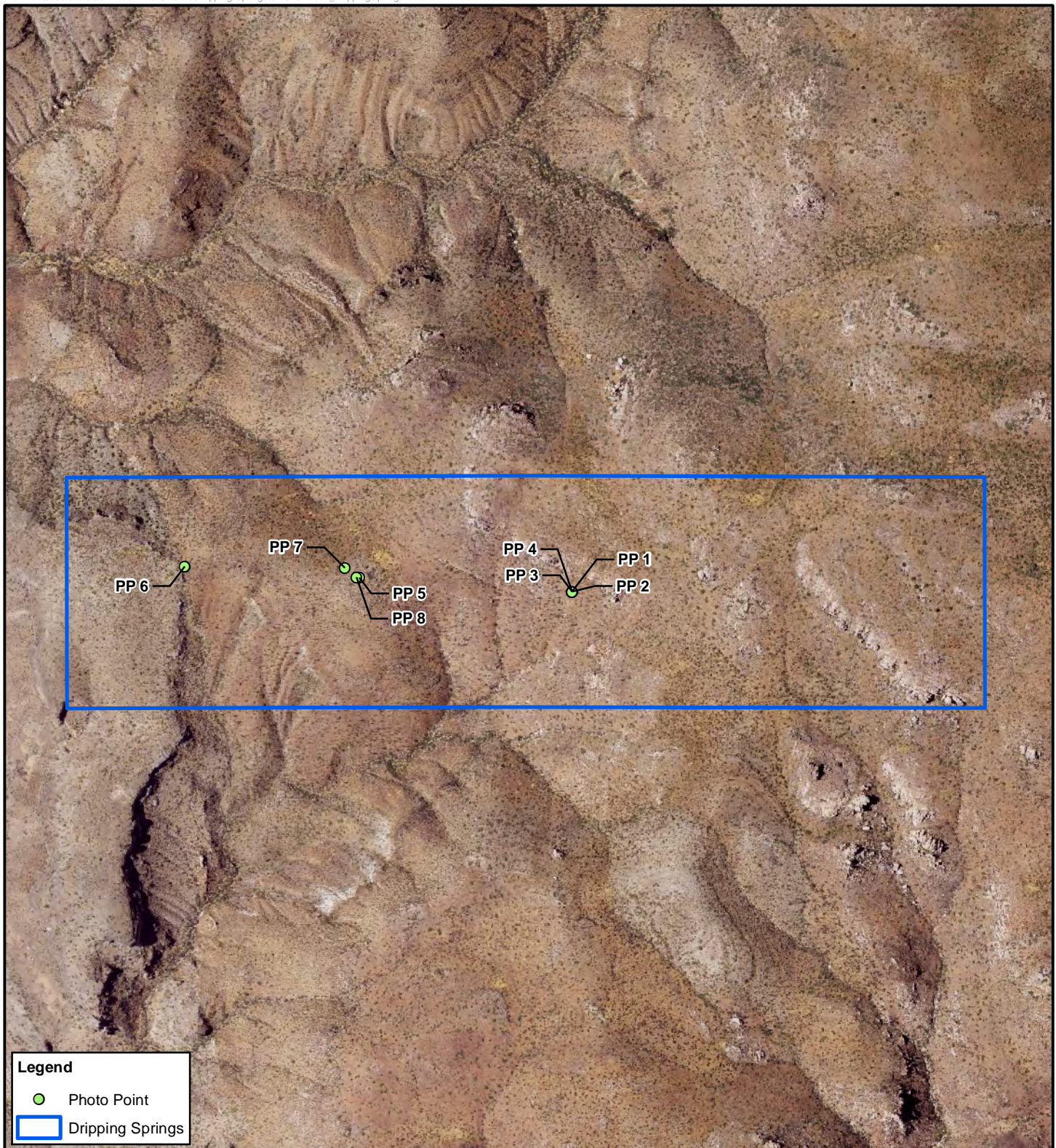
T4S, R15E, Portions of Sections 7 and 8,
Pinal and Gila Counties, Arizona
Surface Management: BLM 2019, WRI modified 2019
Image Source: USDA NAIP 2019

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Phase I ESA for Dripping Springs

SURFACE MANAGEMENT
Figure 3





T4S, R15E, Portions of Sections 7 and 8,
Pinal and Gila Counties, Arizona
Image Source: USDA NAIP 2019

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Phase I ESA for Dripping Springs

SITE RECONNAISSANCE MAP
WITH SELECT FEATURES

Figure 4

APPENDIX A

Site Photographs



Photo 1.

Mine adit with waste rock, photo taken directly across canyon. Photo from 2015 site visit.



Photo 2.

Another view of mine adit in Photo 1 and overview of the Property. Photo from 2015 site visit.



Photo 3.

Mine adit opening; Photo from 2015 site visit.



Photo 4.

Another view of mine adit in Photo 3; Photo from 2015 site visit.



Photo 5.

Overview of Property.



Photo 6.

Single bullet casing observed on ridgetop; Photo from 2015 site visit.



Photo 7.

One of several rock cairn, this one is located on top of a rock outcropping.



Photo 8.

Overview of Property, facing east.

APPENDIX B

**User
Questionnaire**

PHASE I ENVIRONMENTAL SITE ASSESSMENT (ASTM E 1527-13 & 2247-08)

USER QUESTIONNAIRE

In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the “*Brownfields Amendments*”), the *user* must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The *user* should provide the following information to the *environmental professional*. Failure to conduct these inquiries could result in a determination that “*all appropriate inquiries*” 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?

No

(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 offset to purchase price for environmental issues were detected.

(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*?

Ranching

(b.) Do you know of specific chemicals that are present or once were present at the *property*?

No

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

No

(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

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

Land exchange with Federal Government

(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).

No required for this review

(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, US Forest Service, Bureau of Land Management

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

Sterling Hundley - see below

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

No

(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).

No

Name, Title, and Organization of person interviewed:

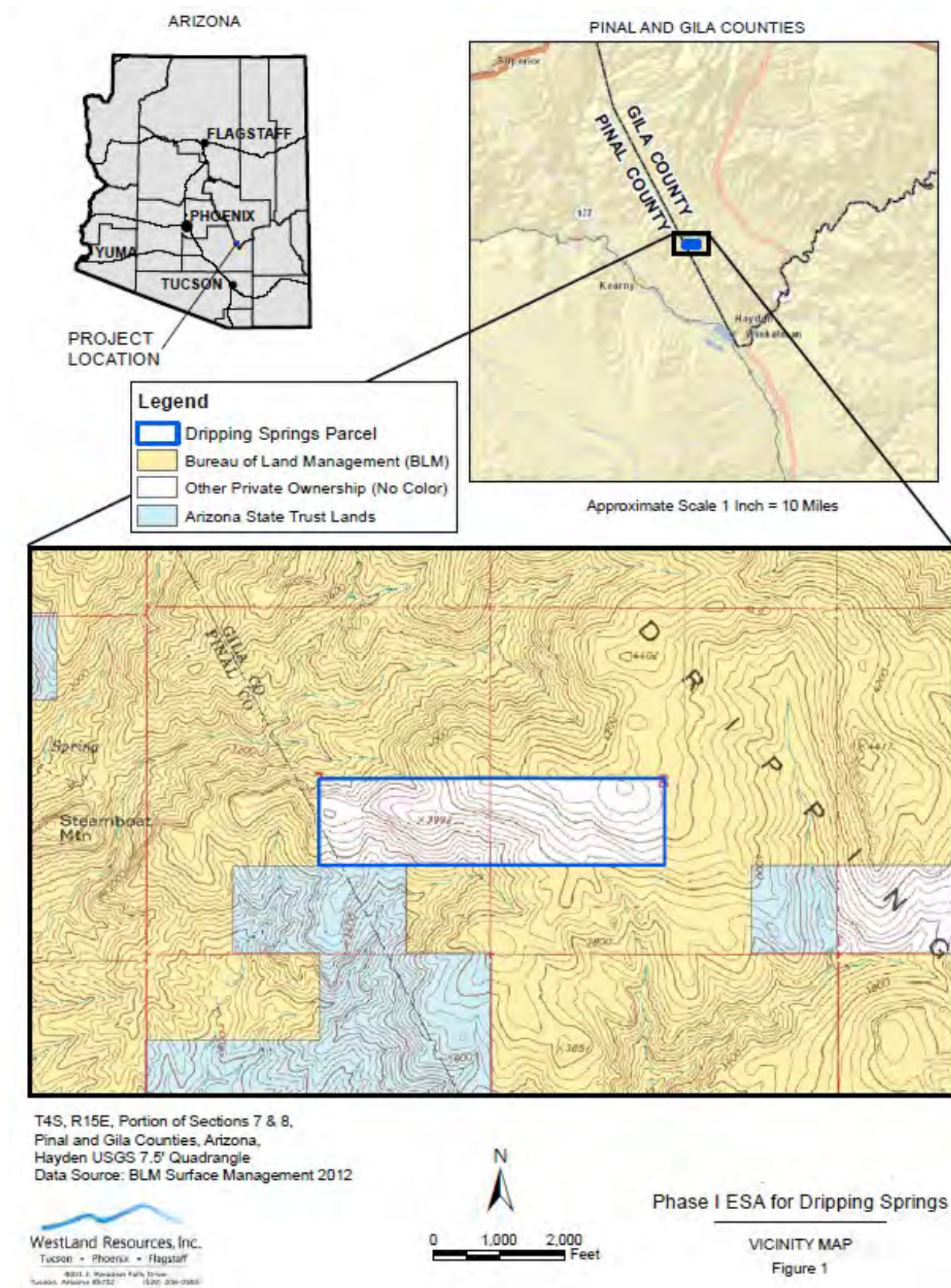
Sterling Hundley, Controller, RESOLUTION COPPER COMPANY

Interview Medium (phone, email, in-person):

Email and phone

Date of Interview:

08/06/2020



PHASE I ENVIRONMENTAL SITE ASSESSMENT
OWNER/ OPERATOR/OCCUPANT QUESTIONNAIRE

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

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

Vacant land

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

Ranching

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

Current: Resolution Copper Mining LLC Past: Dripping Springs Ranch, LLC

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

Vacant lands and ranching

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

BLM lands surrounding area, mostly leased ranch lands

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

Yes_____ No X Unknown_____

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

Yes_____ No X Unknown_____

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

Yes_____ No X Unknown_____

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

Yes_____ No X Unknown_____

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

Yes_____ No X 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 X Unknown_____

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

Yes_____ No X Unknown_____

Property: Dripping Springs (See attached map)

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

Yes_____ No X Unknown_____

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

Yes_____ No X Unknown_____ Historic mine adit and waste rock are present at property

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

Yes_____ No X Unknown_____

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

Yes_____ No X Unknown_____

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

Yes_____ No_____ Unknown X

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

Yes_____ No X Unknown_____

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

Yes_____ No_____ Unknown X

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

Yes_____ No 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_____ No X Unknown_____

(22). Are you aware of (1) any pending, threatened, or past litigation relevant to *hazardous substances* or *petroleum products* in, on, or from the *property*; (2) any pending, threatened, or past administrative proceedings relevant to *hazardous substances* or *petroleum products* in, on, or from the *property*; and (3) any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to *hazardous substances* or *petroleum products*?

Yes_____ No X Unknown_____

Name, Title, and Organization of person interviewed:

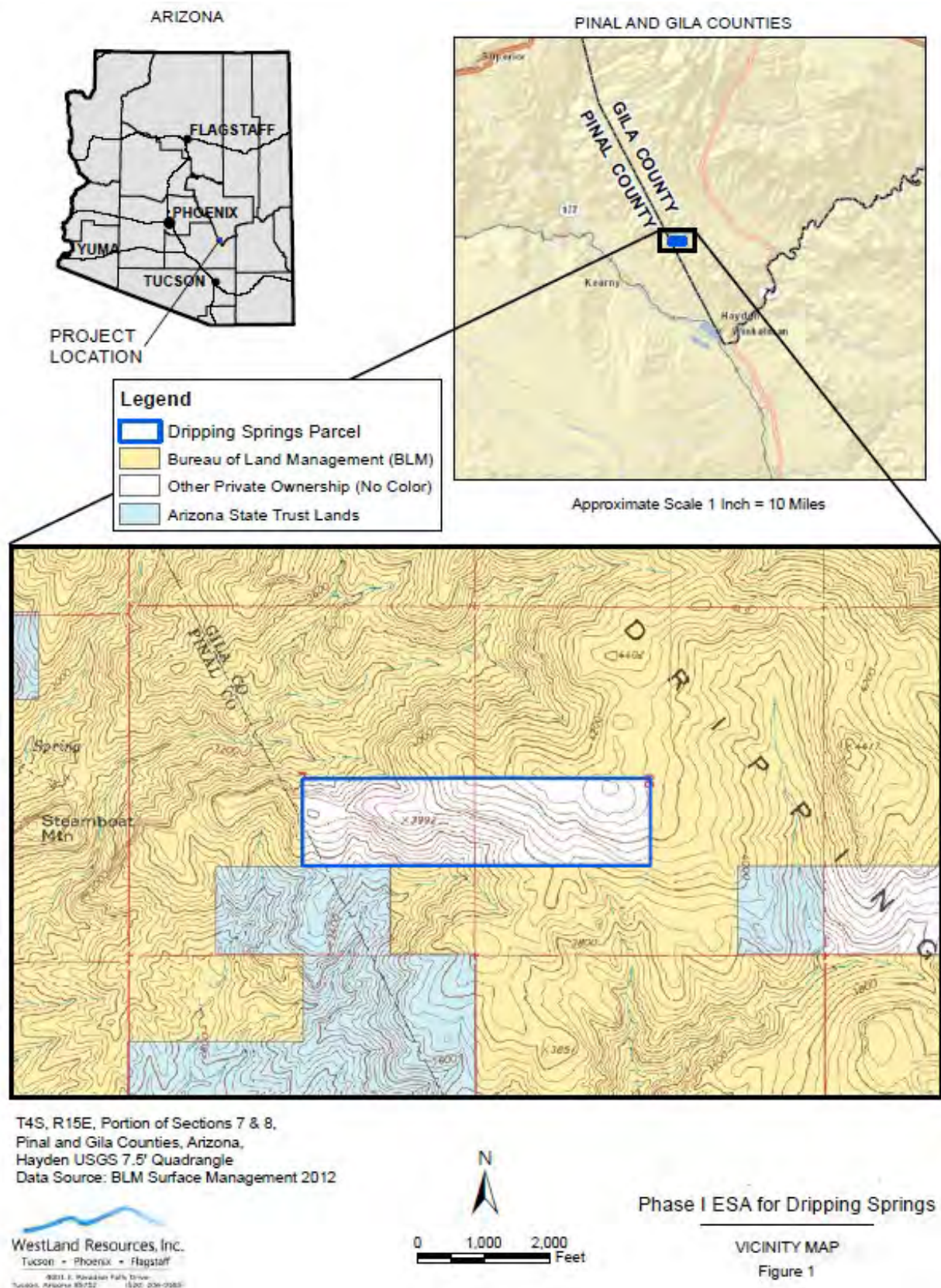
Sterling Hundley, Controller, RESOLUTION COPPER COMPANY

Interview Medium (phone, email, in-person):

Email and phone

Date of Interview:

08/06/2020



APPENDIX C

**ERS
Environmental
LienSearch
Report with
Recorded Deeds**

Environmental Lien Research Update

REPORT RESULTS



Report Results for:

Patrick Mette
WestLand Resources, Inc.
4001 E Paradise Falls Dr.
Tucson, AZ 85712
EL Coversheet
June 26, 2020

**Subject Site: Dripping Springs -101-01-005 and
101-01-006**

ERS Order #:

Clients Project #: **807.211**
Address: **Parcels 101-01-005 and
101-01-006**
City, State Zip: **Gila County, AZ**

2104724043

Prepared For:

Date:

Name: **Patrick Mette**
Company: **WestLand Resources, Inc.**
Address: **4001 E Paradise Falls Dr.**
City, State Zip: **Tucson, AZ 85712**

June 26, 2020

Prepared By:

Name: **Nadine Kieselbach**
Phone #: **(714) 669-8096
Ext. 1004**

The Environmental Lien Search 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;

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Environmental Lien and AUL Report Update

TARGET PROPERTY INFORMATION

ADDRESS

Dripping Springs
Gila County, Arizona

RESEARCH SOURCE

Source: Gila County Assessor
Gila County Recorder

DEED INFORMATION

Type of Instrument: Warranty Deed

Grantor: Swift Current Land & Cattle LLC

Grantee: Resolution Copper Mining LLC, a Delaware limited liability company

Deed Dated: 03/24/2020

Deed Recorded: 04/08/2020

Document No. 2020-004091

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in the North Half of the Southeast Quarter of Section 7, Township 4 South, Range 15 East of the Gila and Salt River Base and Meridian, Gila County, State of Arizona

Assessor's Parcel Number(s): 101-01-005

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

Environmental Lien and AUL Report Update

TARGET PROPERTY INFORMATION

ADDRESS

Dripping Springs
Gila County, Arizona

RESEARCH SOURCE

Source: Gila County Assessor
Gila County Recorder

DEED INFORMATION

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Grantee: Resolution Copper Mining LLC, a Delaware limited liability company

Deed Dated: 03/24/2020

Deed Recorded: 04/08/2020

Document No. 2020-004091

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in the North Half of the Southwest Quarter of Section 8, Township 4 South, Range 15 East of the Gila and Salt River Base and Meridian, Gila County, State of Arizona

Assessor's Parcel Number(s): 101-01-006

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒



After recording return to:

Resolution Copper Mining LLC
Attn: Legal Department
102 Magma Heights, Box 1944
Superior, AZ 85173

Exempt pursuant to A.R.S. § 11-1134.B.7(b)

WARRANTY DEED

FOR THE CONSIDERATION of Ten Dollars (\$10.00) and other valuable considerations, **SWIFT CURRENT LAND & CATTLE LLC**, whose address is 102 Magma Heights, Box 1944, Superior, AZ 85173, ("Grantor") does hereby convey to **RESOLUTION COPPER MINING LLC**, a Delaware limited liability company, whose address is 102 Magma Heights, Box 1944, Superior, AZ 85173 ("Grantee"); that certain real property situated in Gila County, Arizona, more particularly described in Exhibit A attached hereto and by this reference incorporated herein;

TOGETHER WITH all associated rights, water rights, tenements, hereditaments and appurtenances thereto belonging, or otherwise appertaining thereto;

SUBJECT TO:

1. Current taxes;
2. All matters of record in the official records of Gila County, or would be apparent by an inspection of the property conveyed hereby;
3. Reservations in patents from the United States of America or the State of Arizona.

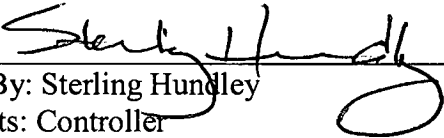
TO HAVE AND TO HOLD the same, together with the appurtenances and privileges thereunto incident, unto the Grantee, its successors and assigns forever.

GRANTOR WARRANTS title to the Property against all persons whomsoever, subject only to those matters described above.

Presented for recording without liability
for acceptability or sufficiency by
FIRST AMERICAN TITLE

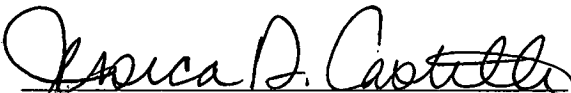
DATED this 24th day of March, 2020.

GRANTOR:
SWIFT CURRENT LAND & CATTLE LLC


By: Sterling Hundley
Its: Controller

STATE OF ARIZONA)
) ss.
County of Pinal)

The foregoing instrument was acknowledged before me this 24th day of March, 2020, by Sterling Hundley, its Controller.


Notary Public

My commission expires:
May 31, 2022

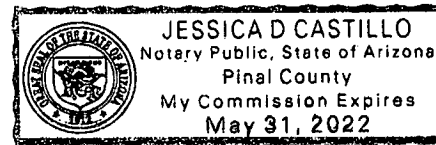


EXHIBIT A

PARCEL NO. 1

The North half of the Southeast quarter of Section 7, Township 4 South, Range 15 East of the Gila and Salt River Base and Meridian, Gila County, Arizona.

PARCEL NO. 2

The North half of the Southwest quarter of Section 8, Township 4 South, Range 15 East of the Gila and Salt River Base and Meridian, Gila County, Arizona.

I:\FILES\DOCS\RESO03\160579\REV11F8922.DOC

Environmental Lien Research

REPORT RESULTS



Report Results for:

Diana Shiel
Westland Resources, Inc.
4001 E Paradise Falls Dr.
Tucson, AZ 85712
2104651906EL
May 12, 2015

Subject Site:

Clients Project #:

Address:

City, State Zip:

**Parcels 101-01-005 and
101-01-006**

Gila County, AZ

ERS Order #:

2104651906EL

Prepared For:

Name:

Company:

Address:

City, State Zip:

Diana Shiel

Wesland Resources, Inc.

4001 E Paradise Falls Dr.

Tucson, AZ 85712

Date:

May 12, 2015



The NETR Environmental Lien Search Report

**DRIPPING SPRINGS
GILA COUNTY, ARIZONA**

Friday, April 10, 2015

Project Number: L15-00796

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

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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

Dripping Springs
Gila County, Arizona

RESEARCH SOURCE

Source: Gila County Assessor
Gila County Recorder

DEED INFORMATION

Type of Instrument: Warranty Deed

Grantor: Dripping Springs Ranch, LLC, an Arizona limited liability company

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

Deed Dated: 01/22/2007
Deed Recorded: 02/05/2007
Instrument: 2007-001723

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in the North Half of the Southeast Quarter of Section 7, Township 4 South, Range 15 East of the Gila and Salt River Base and Meridian, Gila County, State of Arizona

Assessor's Parcel Number(s): 101-01-005

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

ENVIRONMENTAL LIEN REPORT

TARGET PROPERTY INFORMATION

ADDRESS

Dripping Springs
Gila County, Arizona

RESEARCH SOURCE

Source: Gila County Assessor
Gila County Recorder

DEED INFORMATION

Type of Instrument: Warranty Deed

Grantor: Dripping Springs Ranch, LLC, an Arizona limited liability company

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

Deed Dated: 01/22/2007
Deed Recorded: 02/05/2007
Instrument: 2007-001723

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in the North Half of the Southwest Quarter of Section 8, Township 4 South, Range 15 East of the Gila and Salt River Base and Meridian, Gila County, State of Arizona

Assessor's Parcel Number(s): 101-01-006

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

Gila County, AZ
 Linda Haught Ortega, Recorder
 02/05/2007
 01:48PM
 Doc Code: WD

Doc Id: 2007-001723
 Receipt #: 52640
 Rec Fee: 17.00

PIONEER TITLE AGENCY RECORDING

RECORDING REQUESTED BY
 Lawyers Title Insurance Corporation
 AND WHEN RECORDED MAIL TO:
 SWIFT CURRENT LAND & CATTLE LLC
 2525 E. ARIZONA BILTMORE CIRCL
 # C135
 PHOENIX, AZ 85016



2007-001723

Page: 1 of 3
 02/05/2007 01:48P
 17.00

Gila County, AZ

WD

17.00



ESCROW NO.: 00546557 - 001 - JM1

SPACE ABOVE THIS LINE FOR RECORDER'S USE

Warranty Deed

For the consideration of Ten Dollars, and other valuable considerations, I or we,
DRIPPING SPRINGS RANCH, L.L.C., an Arizona limited liability company
 do/does hereby convey to
SWIFT CURRENT LAND & CATTLE LLC, an Arizona limited liability company
 the following real property situated in Gila County, ARIZONA:

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

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

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

Dated: 1-22, 2007

SELLER:

DRIPPING SPRINGS RANCH, L. L. C.,
 an Arizona limited liability company

C. D. Lunn Lunn

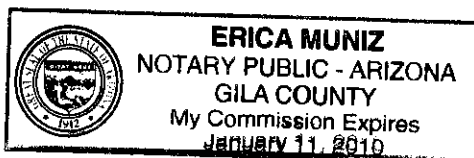
BY: Pres/ Trustee
 Its

State of Arizona
 County of Gila

} SS

This instrument was acknowledged before me this 22
 day of January, 2007

by.



Erica Muniz
 Notary Public

My commission will expire Jan 11, 2010



2007-001723

Page: 2 of 3

02/05/2007 01:48P
17.00

Gila County, AZ

WD

RECORDING REQUESTED BY
Lawyers Title Insurance Corporation
AND WHEN RECORDED MAIL TO:

SWIFT CURRENT LAND & CATTLE LLC
2525 E. ARIZONA BILTMORE CIRCL
C135
PHOENIX, AZ 85016

ESCROW NO.: 00546557 - 001 - JM1

SPACE ABOVE THIS LINE FOR RECORDER'S USE

Warranty Deed

For the consideration of Ten Dollars, and other valuable considerations, I or we,
DRIPPING SPRINGS RANCH, L.L.C., an Arizona limited liability company
do/does hereby convey to
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SUBJECT TO: Current taxes and other assessments, reservations in patents and all easements, rights of way, encumbrances,
liens, covenants, conditions, restrictions, obligations, and liabilities as may appear of record.

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

Dated: 1-22, 2007

SELLER:

Enlarged for Clarity

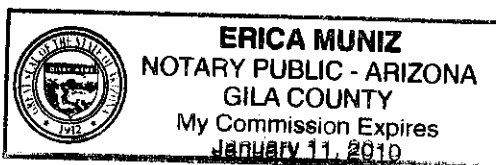
DRIPPING SPRINGS RANCH, L. L. C..
an Arizona limited liability company

C. D. Lamm Luke

BY: Pues/ Trustee
Its

State of Arizona
County of Gila } SS

This instrument was acknowledged before me this 22
day of January 2007
by.



Erica Muniz
Notary Public

My commission will expire Jan 11, 2010



2007-001723

Page: 3 of 3
02/05/2007 01:48P
17.00

Gila County, AZ

WD

Exhibit A

Parcel No. 1

The North half of the Southeast quarter of Section 7, Township 4 South, Range 15 East of the Gila and Salt River Base and Meridian, Gila County, Arizona.

Parcel No. 2

The North half of the Southwest quarter of Section 8, Township 4 South, Range 15 East of the Gila and Salt River Base and Meridian, Gila County, Arizona.

APPENDIX D

ERS RecCheck Area Report Results

RecCheck

The Standard for ASTM/AAI Radius Searches

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

Area Report Results

REPORT RESULTS



Site Location:

Parcels 101-01-005 And 101-01-006
Gila County, AZ 85192
(N 33-5-51, W 110-50-37) NAD83

Client:

WestLand Resources, Inc.

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EXECUTIVE SUMMARY

INFORMATION ON THE REQUESTED LOCATION

Site Address:	Parcels 101-01-005 And 101-01-006 Gila County, AZ 85192
Client Project Name/Number:	Dripping Springs 807.211
Coordinates:	N 33-5-51, W 110-50-37 (NAD 83) 33.0974328084056, -110.843618521476
Date of Report	June 18, 2020
ERS Project Number:	2104724042
Subject Site Listed on the following lists:	Not Listed
Subject Site Listed as Map ID#:	N/A
USGS 7.5 Minute Quad Map:	Hayden (2014-11-21)
Subject Site Located within a Potential Area of Concern:	No
Township, Section and Range:	Township: 04S Range: 15E Section: 008
Site Elevation: (feet above or below (-) mean sea level)	Approximately 3955 ft near the center of the area.
Flood Zone: (FEMA Q3 Digital Data)	Panel: 04021C1000E, Effective Date: 12/4/2007 Zone D - Areas with possible but undetermined flood hazards. No flood hazard analysis has been conducted. Flood insurance rates are commensurate with the uncertainty of the flood risk.
Fire Insurance Map Coverage:	No
Radon Information:	EPA Radon Zone: 2 (Predicted avg for county: 2 to 4 pCi/L)
Search Radius Expansion Size: (In Miles)	0
Soil Type: (USDA Soil Survey Geographic Database) (SSURGO)	Chiricahua-deloro-leyte soils, 10 to 50 percent slopes Map Unit Type: Undifferentiated group Hydric: No Drainage Class: Well drained General Information: Clayey, mixed, superactive, thermic Lithic Ustic Haplargids

Zip Codes Searched for "Un-Mappable" Sites:	Not Researched
Occurrence Count:	1

SUMMARY OF OCCURRENCES

MAP ID	ID/SITE NAME	ADDRESS	DATABASE	STATUS	DISTANCE (MILES)	ELEV DIFF (FEET)
1 Maps: 1 , 4	55-505253 JANET A BARTON	Not Reported by Agency	Wells-AZ	Listed	0.06 N	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
NPL-R9-US	No	0
DOD-AZ	No	0
EpaNPL-AZ	No	0
WQARF-AZ	No	0
Military-Bases-US	No	0
LF-Pima-AZ	No	0
LF-FedState-AZ	No	0

DATABASE OCCURRENCE SUMMARY

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

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

ASTM/AAI STANDARD RECORD SOURCES SUMMARY

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

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

State and Tribal Brownfield Sites	0.5 / 0.5	BF-Closed-AZ	0	None Listed
		BF-Open-AZ	0	None Listed
		BF-Tribal-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-Tribal-US	0.5	0	0	0	0	-	0
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	0.25	0	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-TSDF-US	0.5	0	0	0	0	-	0
SAA-Agreements-US	1	0	0	0	0	0	0
SWLF-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
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
Controls-AZ	0.5	0	0	0	0	-	0
Hist-SPILLS-AZ	0.0625	0	0	-	-	-	0
Hist-SS-AZ	0.5	0	0	0	0	-	0
LUST-Closed-AZ	0.5	0	0	0	0	-	0
LUST-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
LUST-Suspected-AZ	0.5	0	0	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
SWF-AZ	0.5	0	0	0	0	-	0
SWF-Closed-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
VCP-Other-AZ	0.5	0	0	0	0	-	0

SUPPLEMENTAL DATABASES

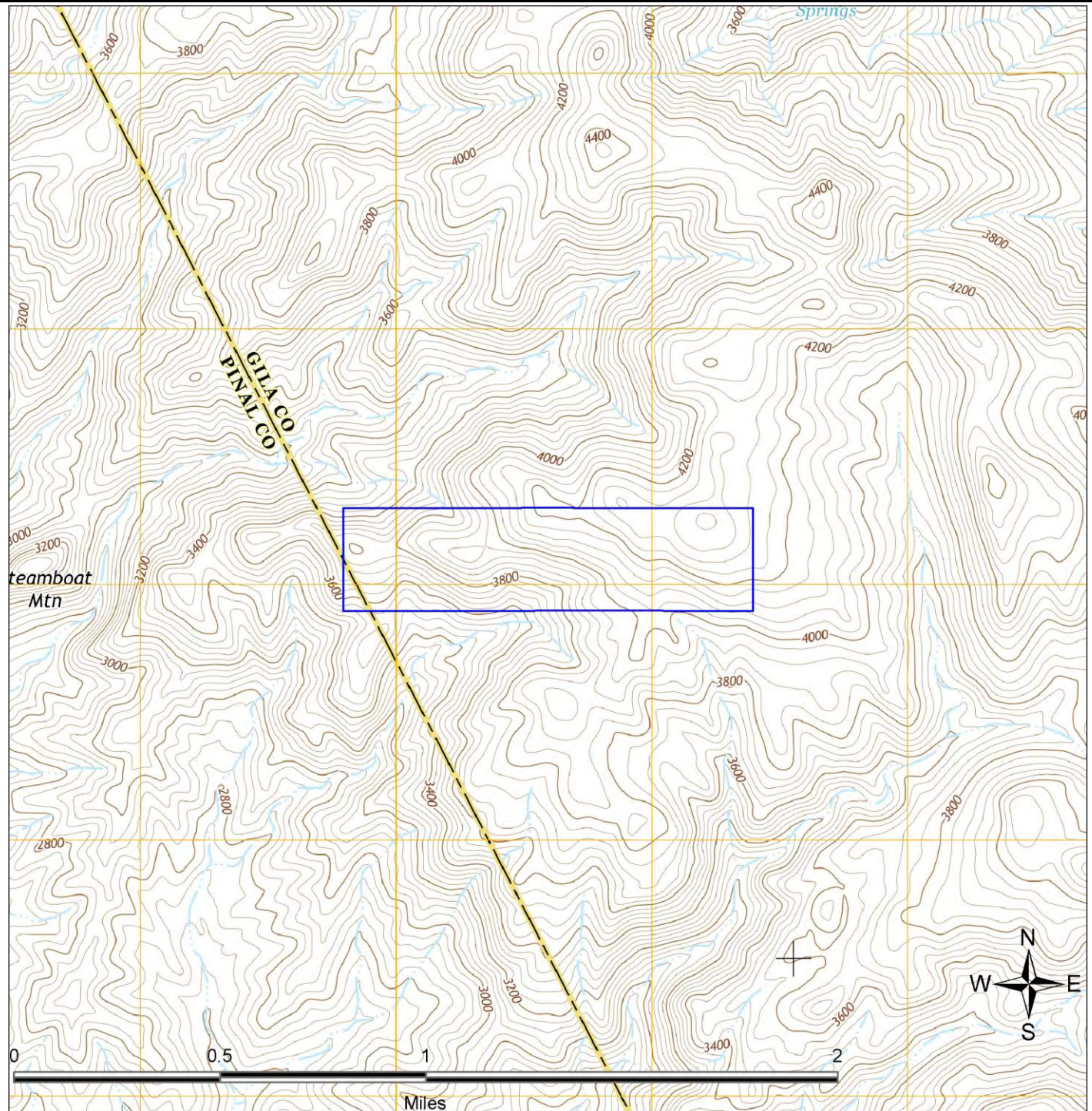
DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
Abandoned-Mines-AZ	0.0625	0	0	-	-	-	0
Air-AZ	0.25	0	0	0	-	-	0
Allfac-AZ	0.25	0	0	0	-	-	0
BioFuel-US	0.25	0	0	0	-	-	0
CDL-AZ	0.0625	0	0	-	-	-	0
CDL-US	0.0625	0	0	-	-	-	0
Coal-Ash-AZ	0.5	0	0	0	0	-	0
Coal-Ash-Dams-US	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
FUSRAP-US	0.25	0	0	0	-	-	0
Hist-ACIDS-AZ	0.25	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-CERCLIS-NFRAP-US	0.25	0	0	0	-	-	0
Hist-CERCLIS-US	0.25	0	0	0	-	-	0
Hist-DryWells-AZ	0.25	0	0	0	-	-	0
Hist-ERNS-US	0.0625	0	0	-	-	-	0
Hist-FIFRA-US	0.25	0	0	0	-	-	0
Hist-FINDS-US	0.0625	0	0	-	-	-	0
Hist-HML-AZ	0.25	0	0	0	-	-	0
Hist-LF-AZ	0.25	0	0	0	-	-	0
Hist-LUST-AZ	0.25	0	0	0	-	-	0
HIST-MLTS-US	0.25	0	0	0	-	-	0
Hist-NPL-US	0.25	0	0	0	-	-	0
Hist-RCRIS-US	0.25	0	0	0	-	-	0
Hist-Superfund-AZ	0.25	0	0	0	-	-	0
Hist-TRIS-US	0.25	0	0	0	-	-	0
Hist-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
Hist-UST-AZ	0.25	0	0	0	-	-	0
Hist-WaterWells-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
LMOP-US	0.5	0	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
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	1	-	-	-	1

PROPRIETARY HISTORIC DATABASES							
DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
Hist-Agriculture	0.0625	0	0	-	-	-	0
Hist-Auto Dealers	0.0625	0	0	-	-	-	0
Hist-Auto Repair	0.25	0	0	0	-	-	0
Hist-Chemical Manufacturing	0.0625	0	0	-	-	-	0
Hist-Chemical-Storage	0.0625	0	0	-	-	-	0
Hist-Cleaners	0.25	0	0	0	-	-	0
Hist-Convenience	0.0625	0	0	-	-	-	0
Hist-Disposal-Recycle	0.0625	0	0	-	-	-	0
Hist-Food-Processors	0.0625	0	0	-	-	-	0
Hist-Gun-Ranges	0.0625	0	0	-	-	-	0
Hist-Machine Shop	0.0625	0	0	-	-	-	0
Hist-Manufacturing	0.0625	0	0	-	-	-	0
Hist-Metal Plating	0.0625	0	0	-	-	-	0
Hist-Mining	0.0625	0	0	-	-	-	0
Hist-Mortuaries	0.0625	0	0	-	-	-	0

PROPRIETARY HISTORIC DATABASES

DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
Hist-Oil-Gas	0.0625	0	0	-	-	-	0
Hist-OilGas-Refiners	0.0625	0	0	-	-	-	0
Hist-Other	0.0625	0	0	-	-	-	0
Hist-Paint-Stores	0.0625	0	0	-	-	-	0
Hist-Petroleum	0.0625	0	0	-	-	-	0
Hist-Post-Offices	0.0625	0	0	-	-	-	0
Hist-Printers	0.0625	0	0	-	-	-	0
Hist-Rental	0.0625	0	0	-	-	-	0
Hist-RV-Dealers	0.0625	0	0	-	-	-	0
Hist-Salvage	0.0625	0	0	-	-	-	0
Hist-Service Stations	0.25	0	0	0	-	-	0
Hist-Steel-Metals	0.0625	0	0	-	-	-	0
Hist-Textile	0.0625	0	0	-	-	-	0
Hist-Transportation	0.0625	0	0	-	-	-	0
Hist-Trucking	0.0625	0	0	-	-	-	0
Hist-Vehicle-Parts	0.0625	0	0	-	-	-	0
Hist-Vehicle-Washing	0.0625	0	0	-	-	-	0



SITE LOCATION TOPOGRAPHIC MAP

U.S. Geological Survey. Hayden (2014-11-21) Quadrangle, 7.5 Minute Series

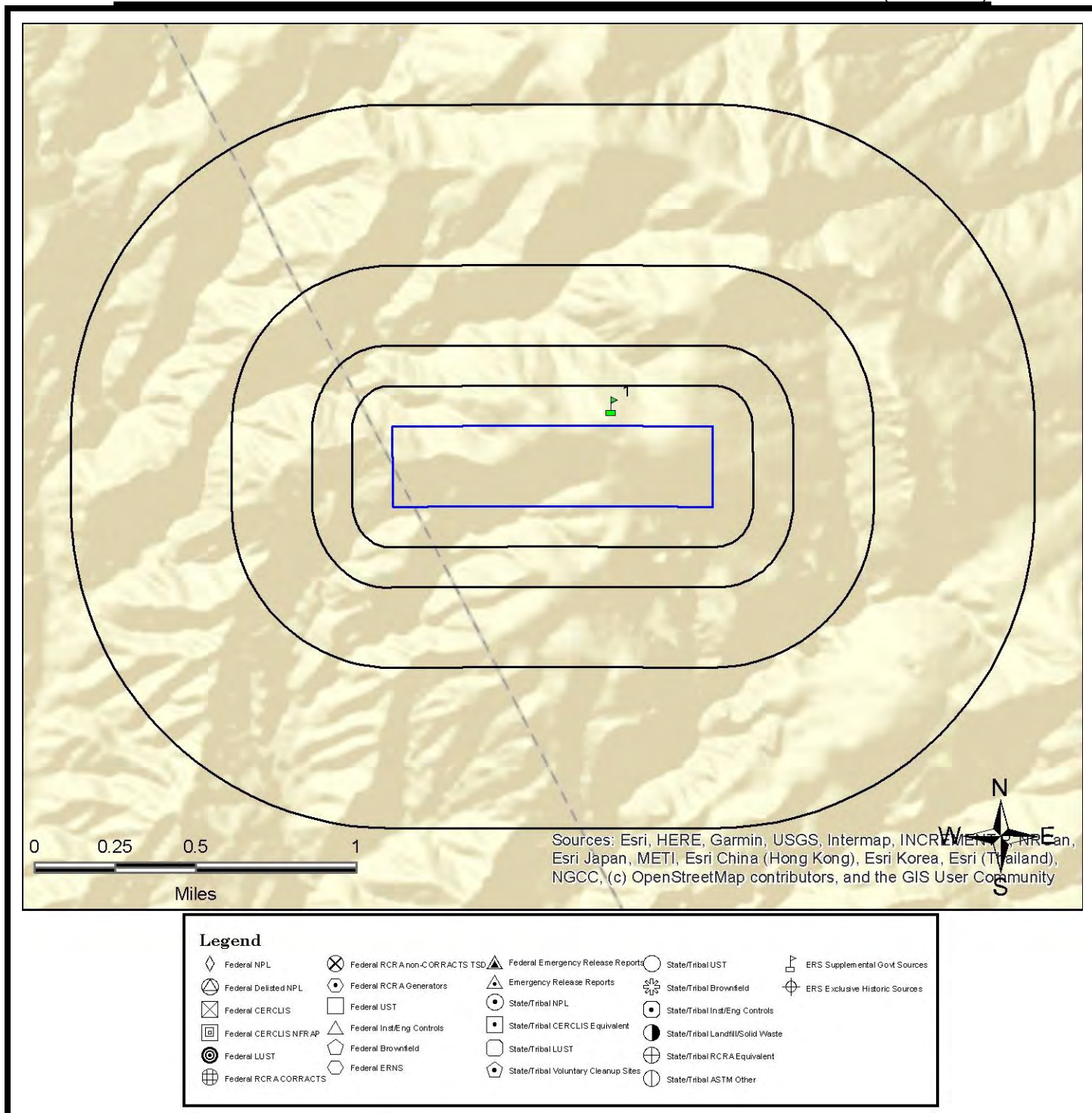
WestLand Resources, Inc.

Parcels 101-01-005 And 101-01-006
Gila County, AZ 85192

FIGURE: 1
JOB: 807.211
DATE: 6/18/2020

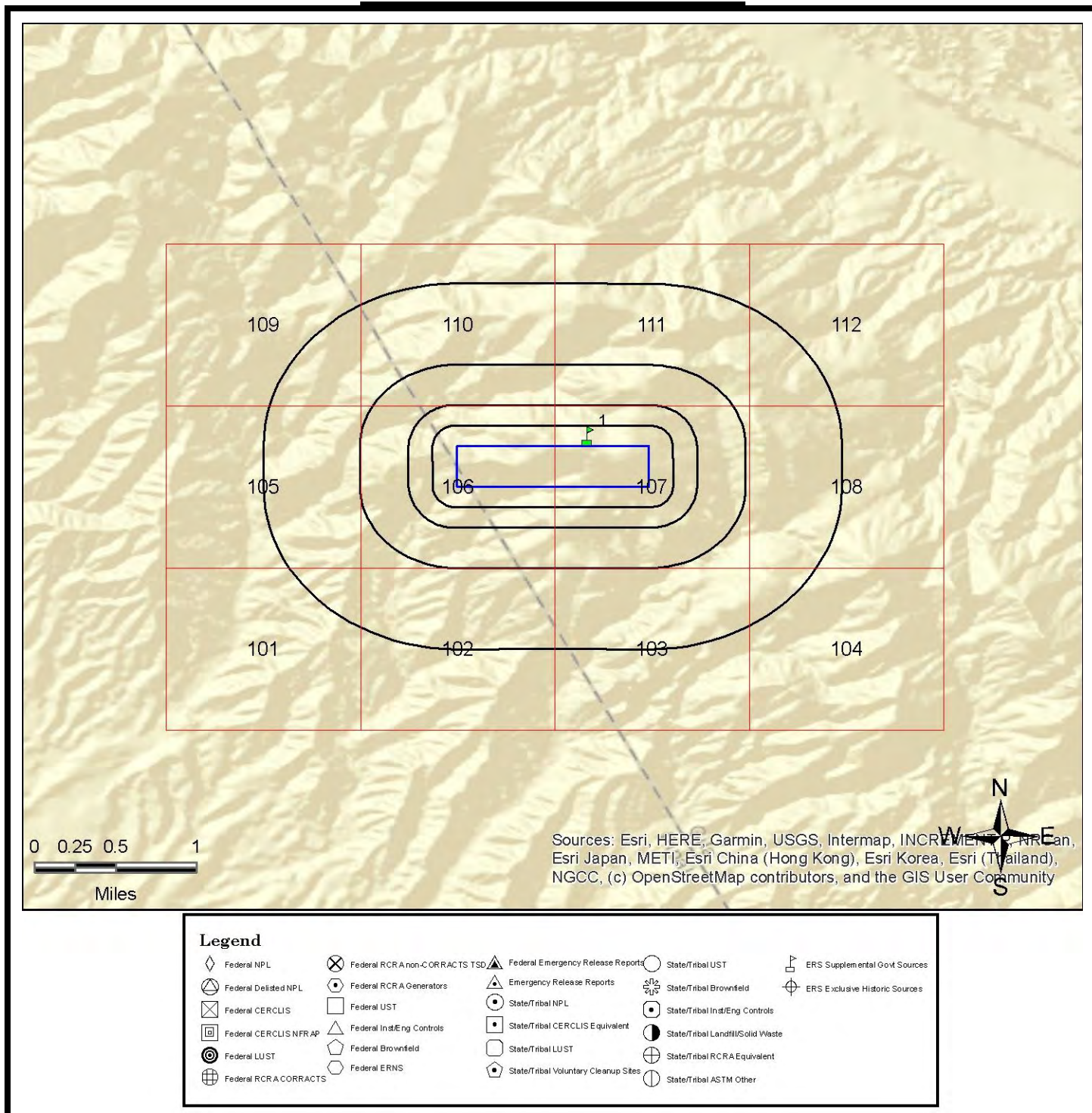
WestLand Resources, Inc.	Parcels 101-01-005 And 101-01-006 Gila County, AZ 85192	FIGURE: 2 JOB: 807.211 DATE: 6/18/2020
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1-MILE RADIUS STREET MAP W/OCCURRENCES (MAP1)



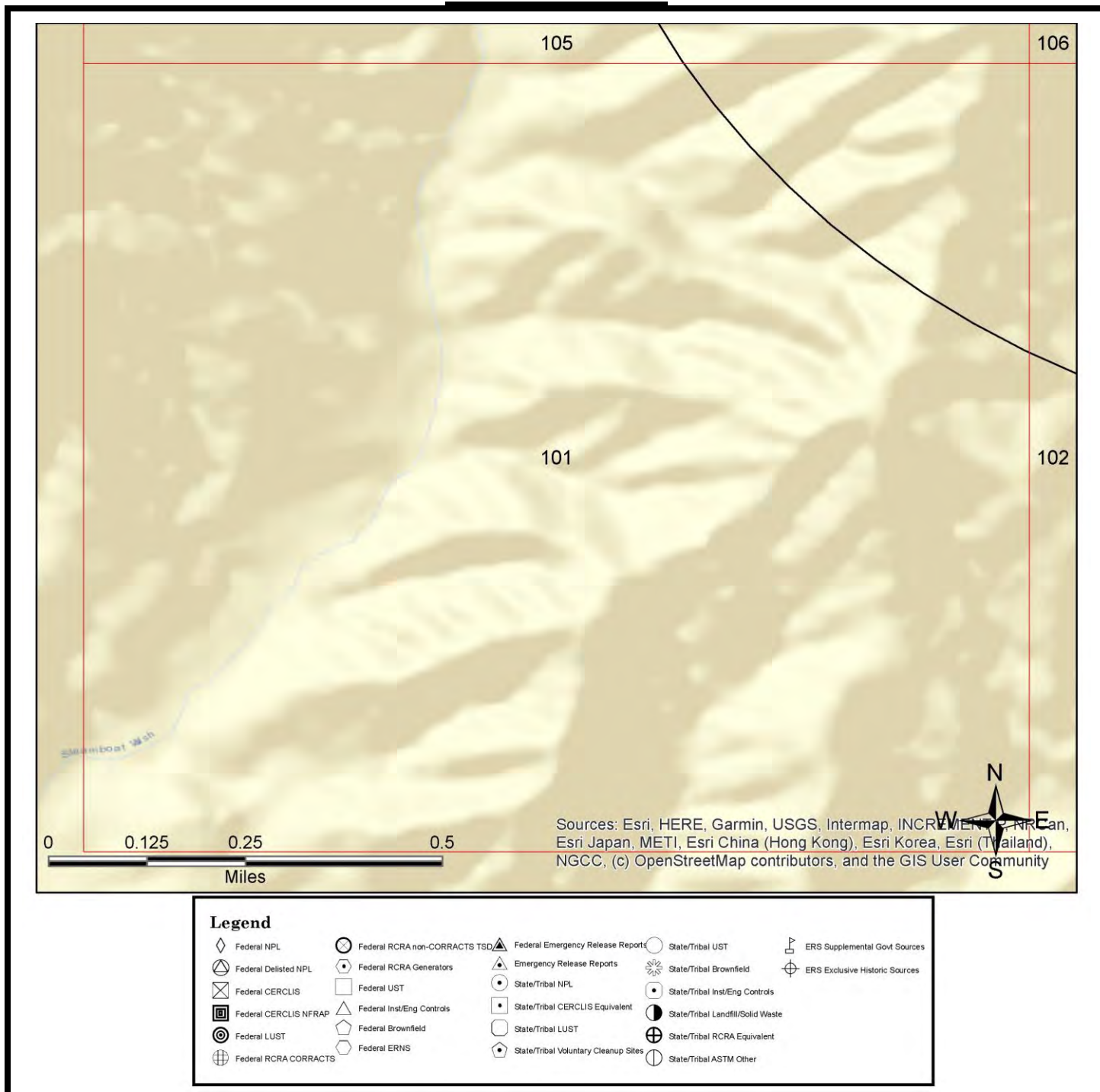
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc.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



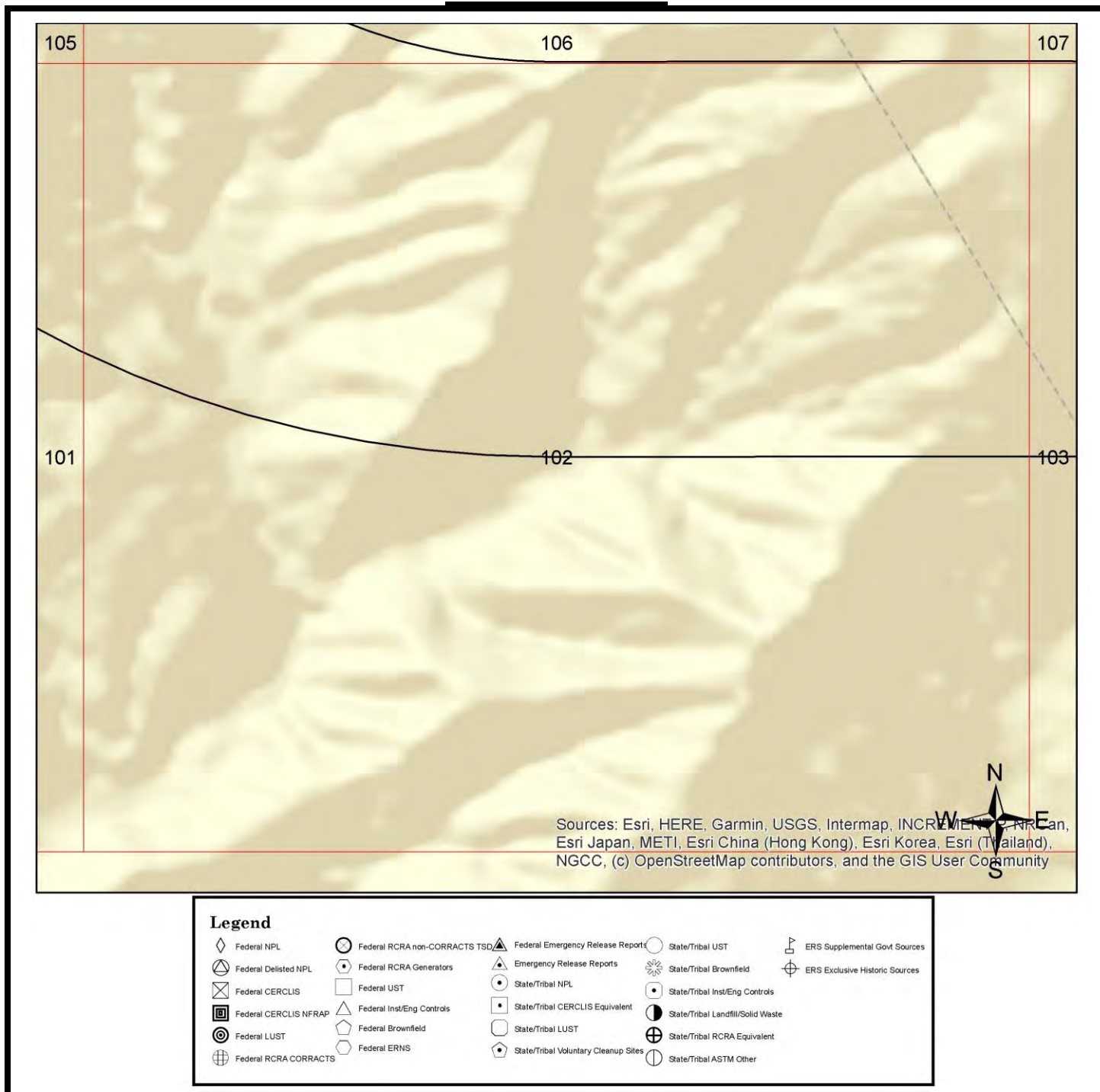
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc.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



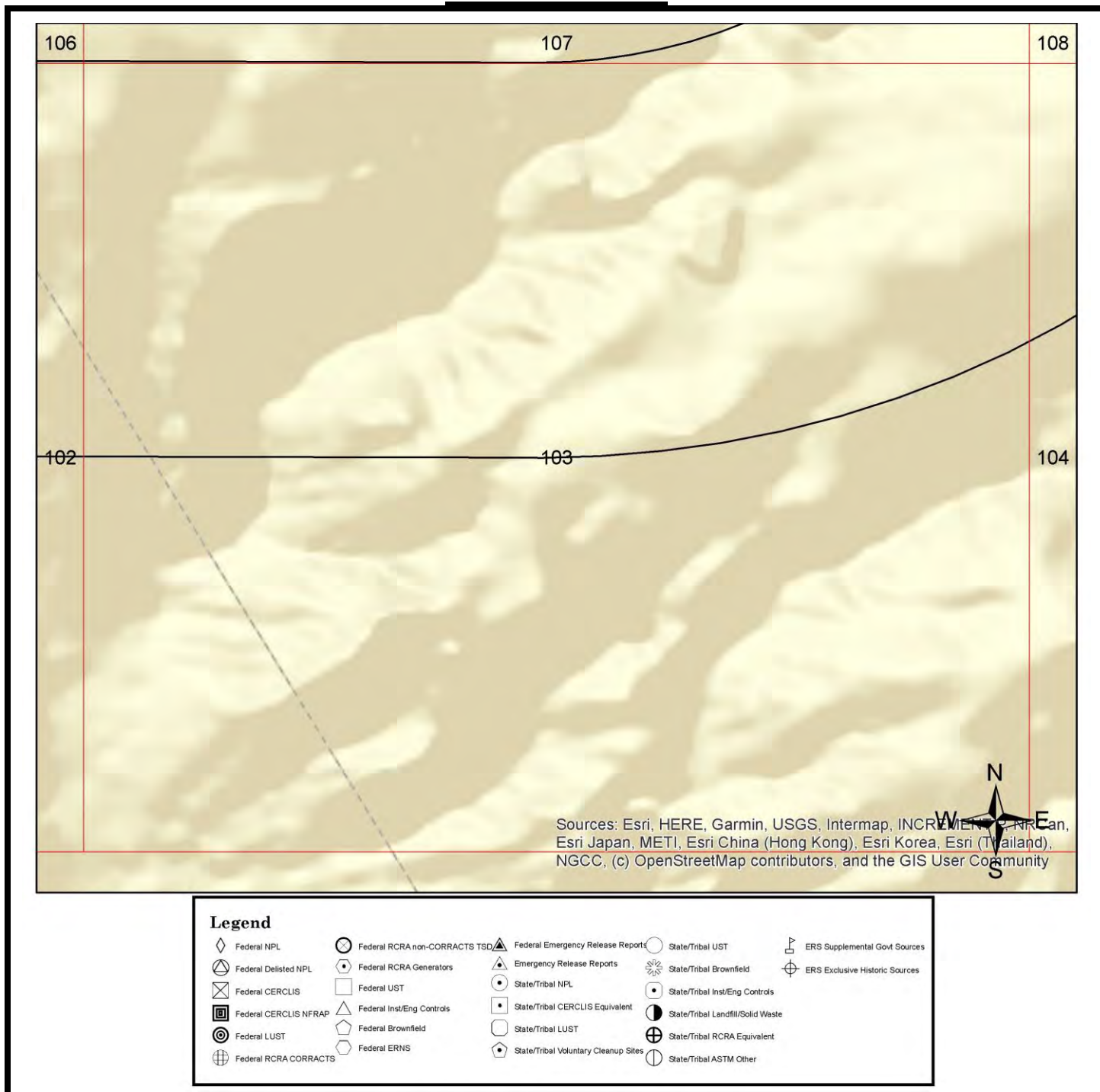
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc.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



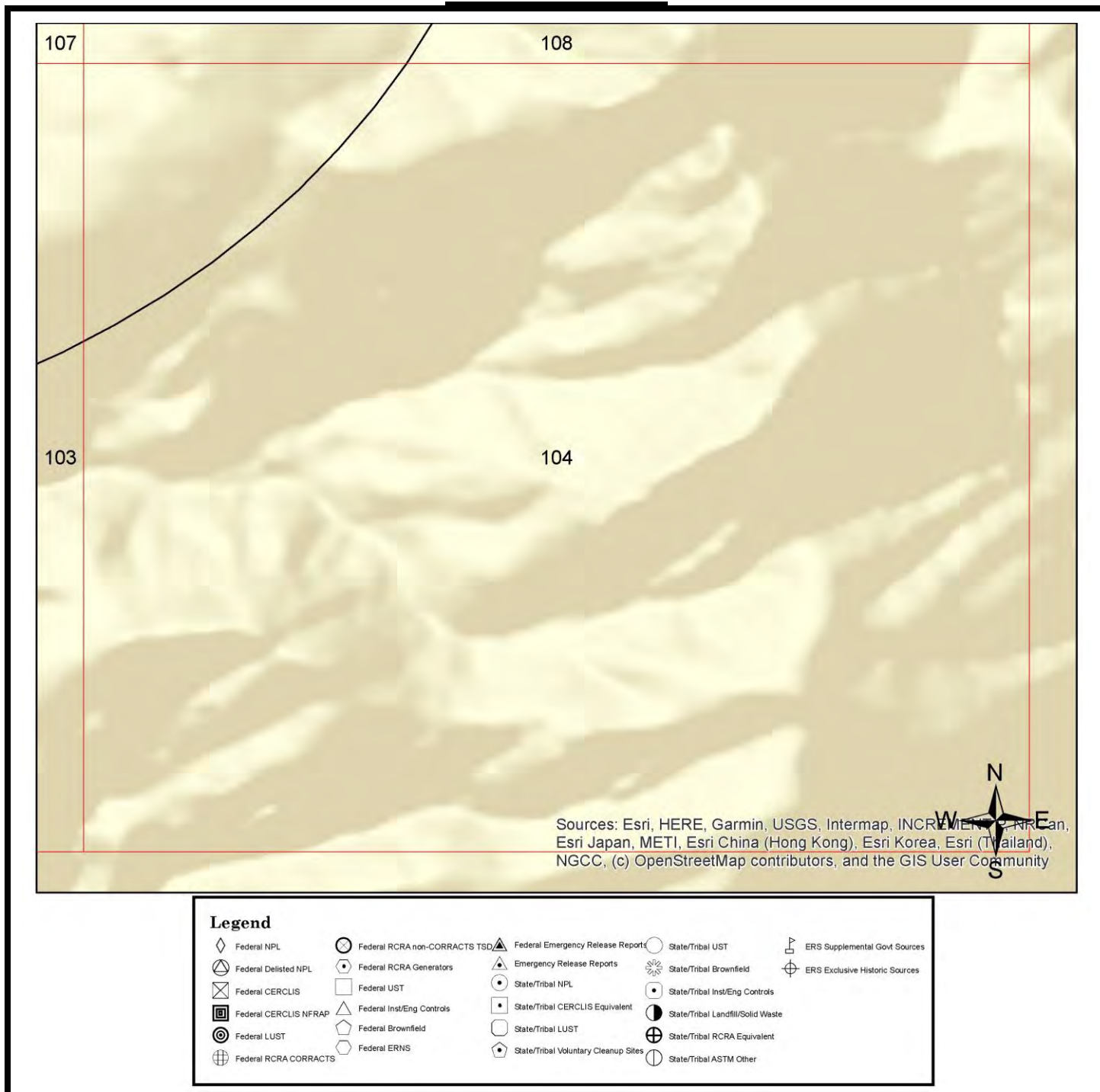
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc.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



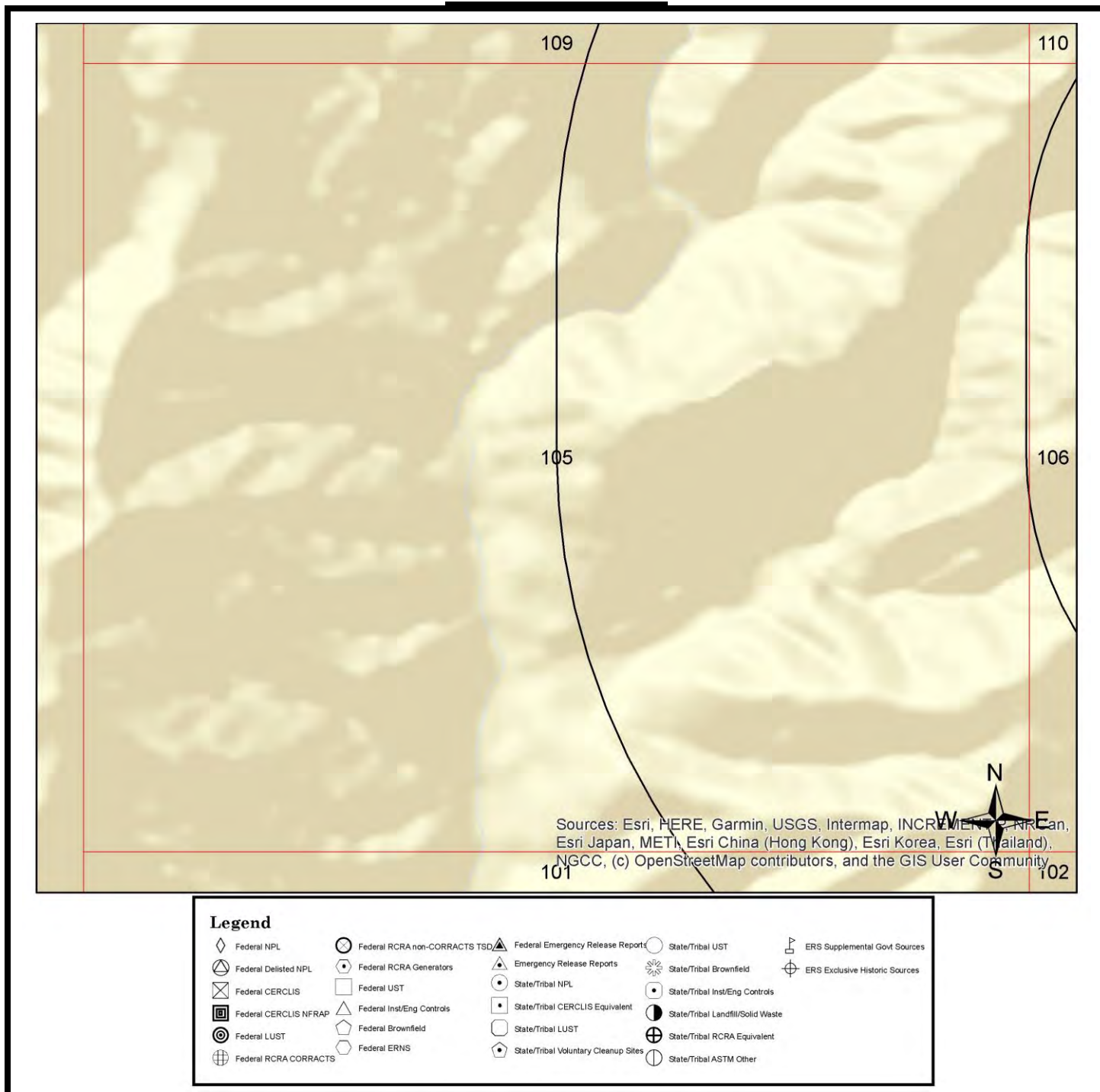
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc.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



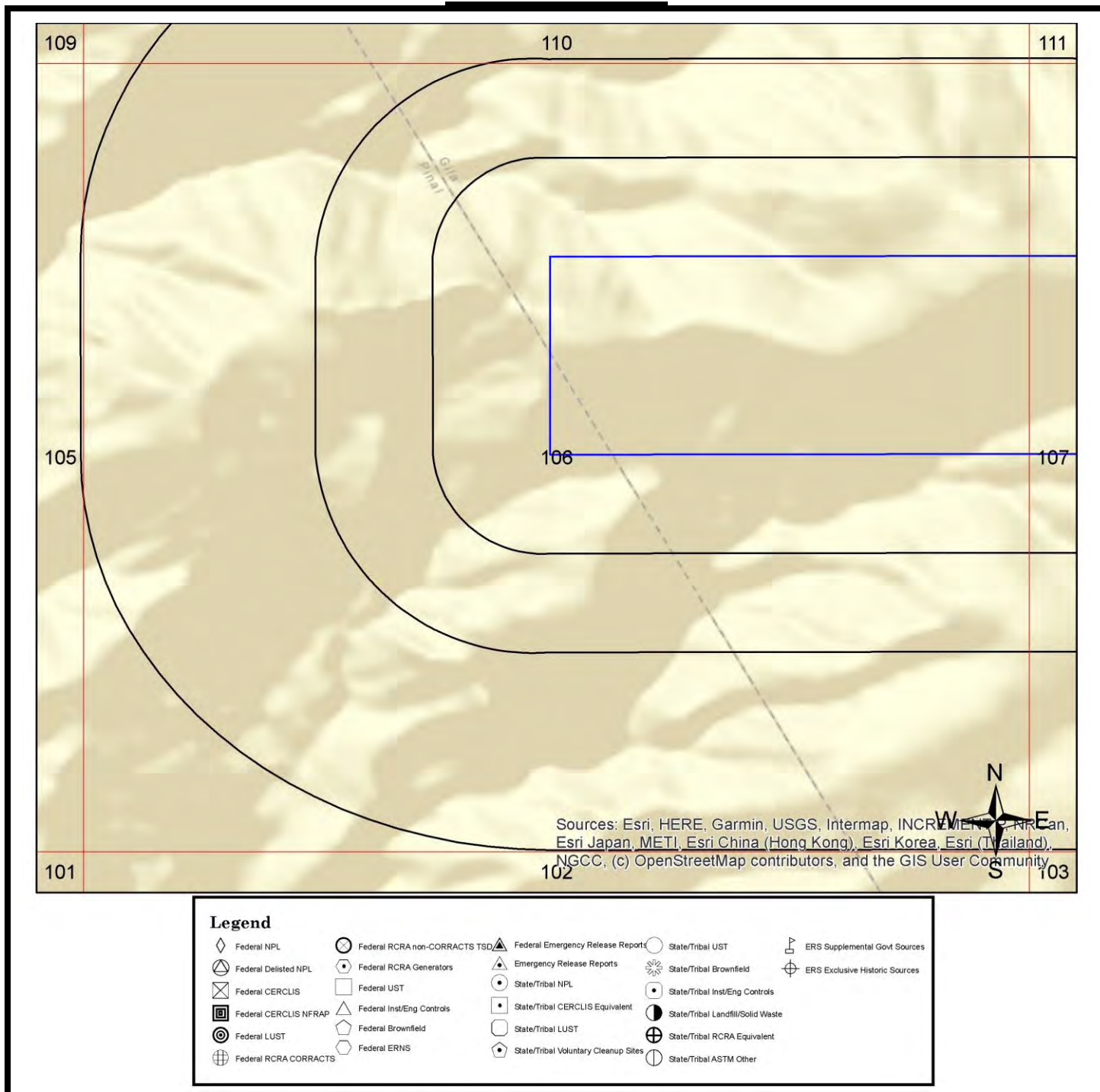
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc.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



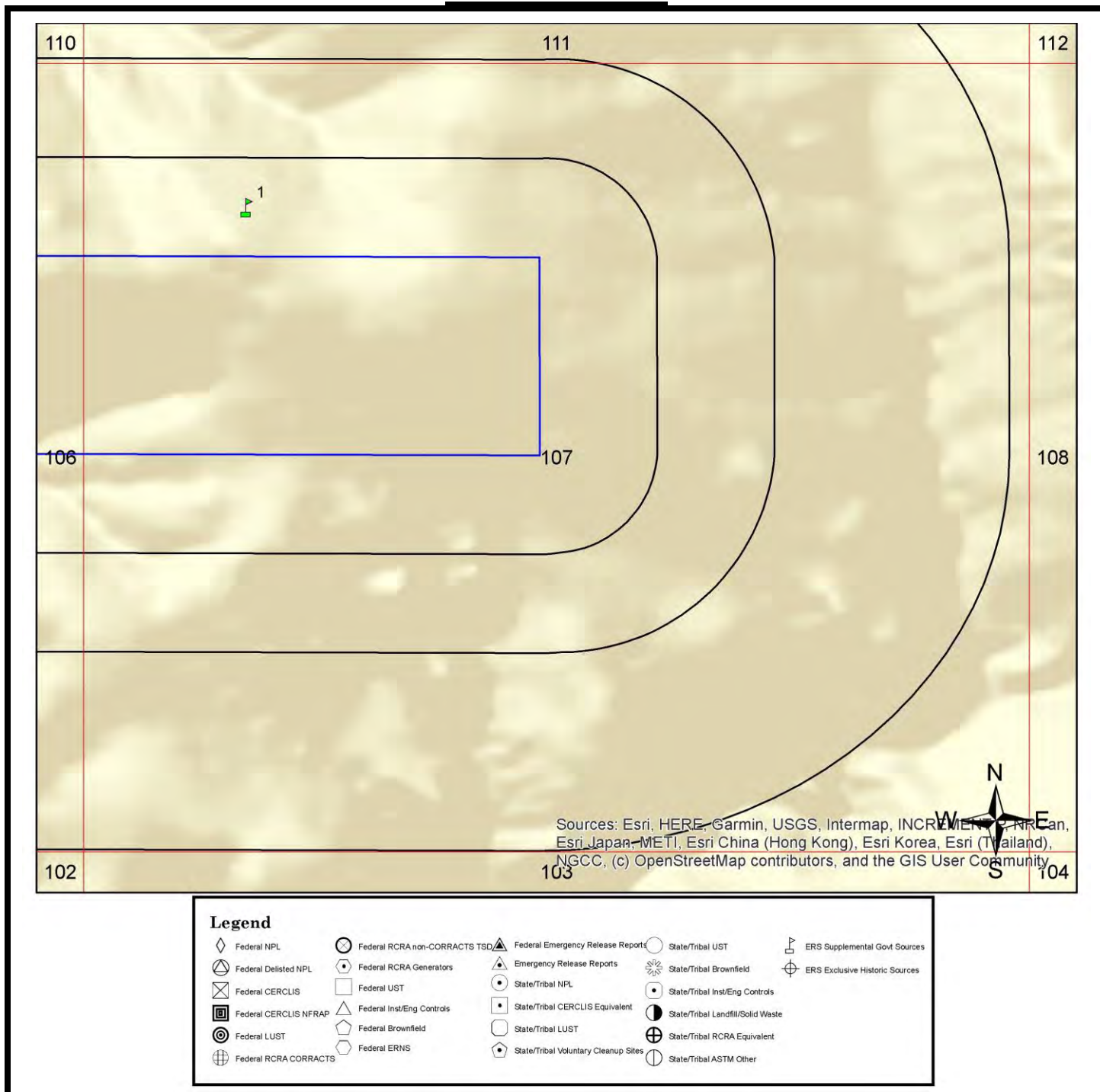
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc.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



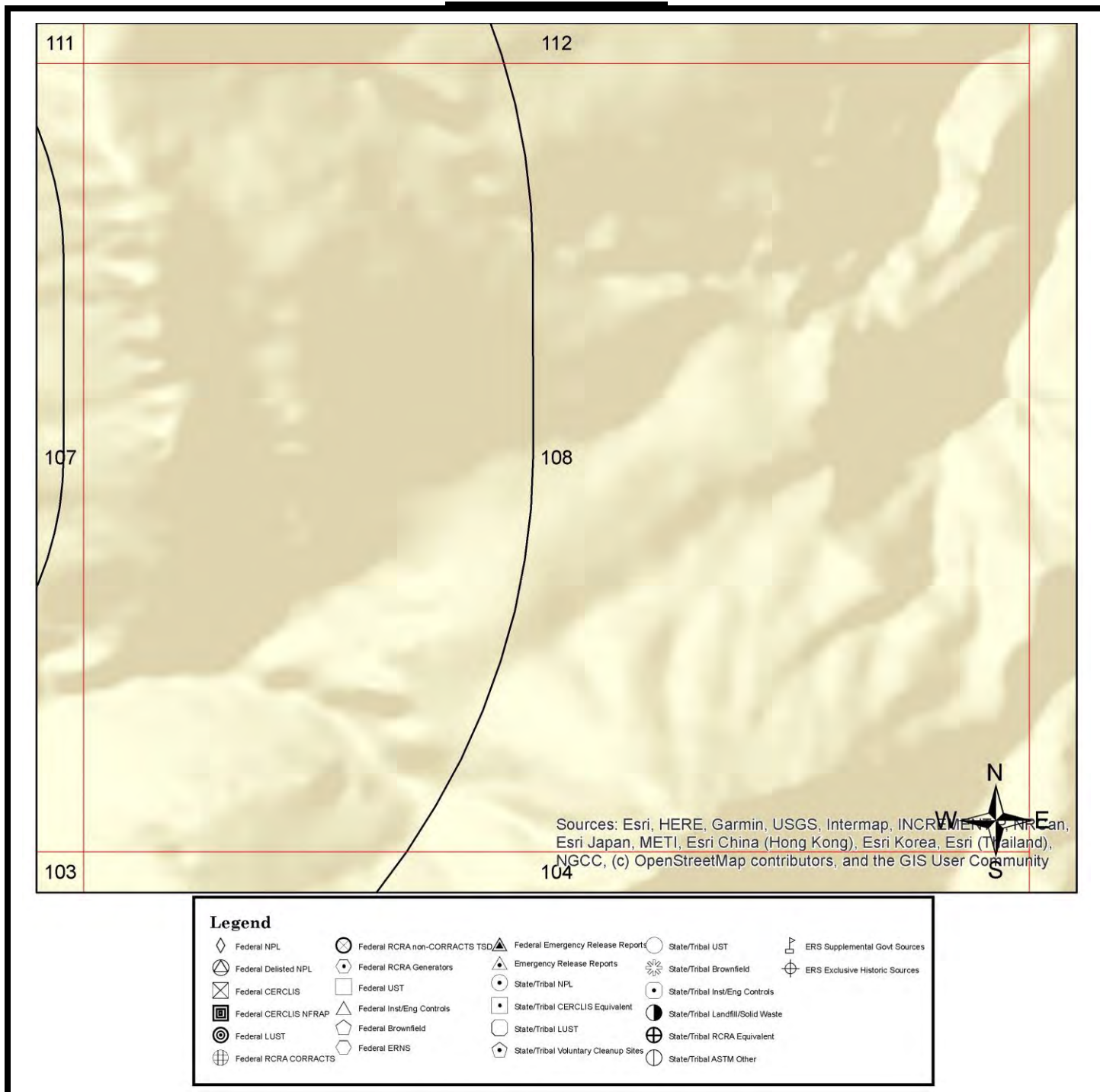
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc.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



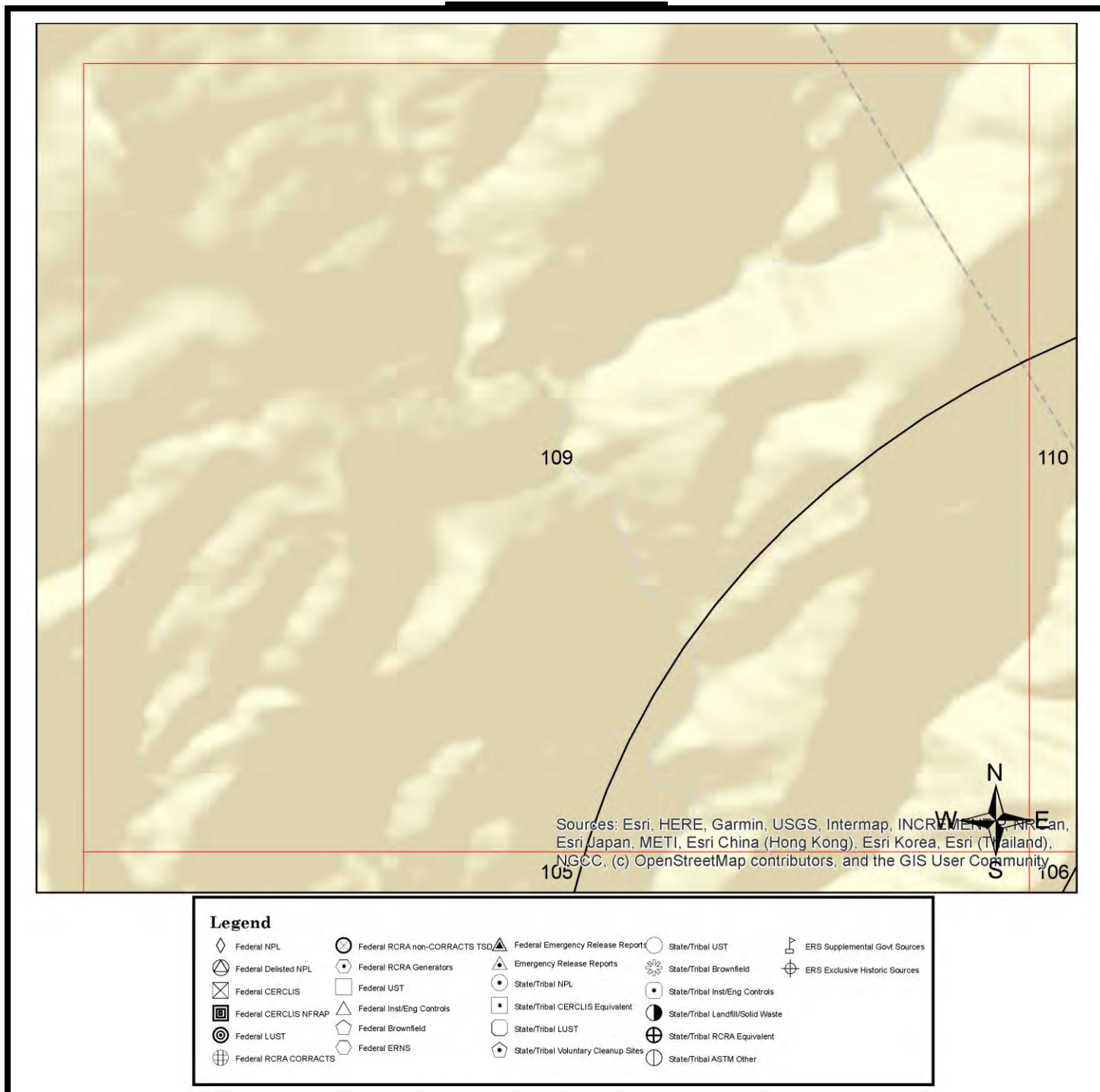
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc.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



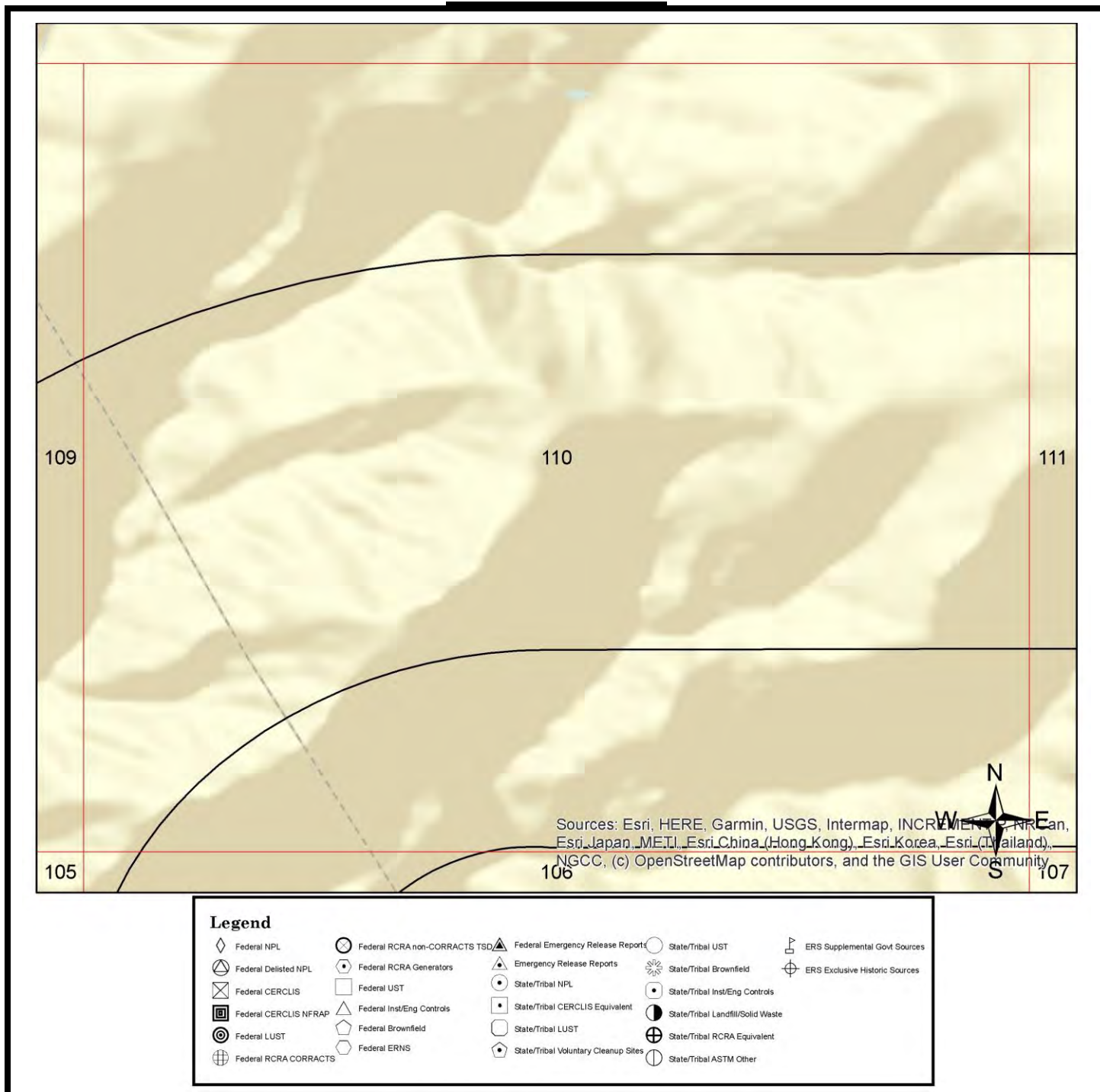
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc.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



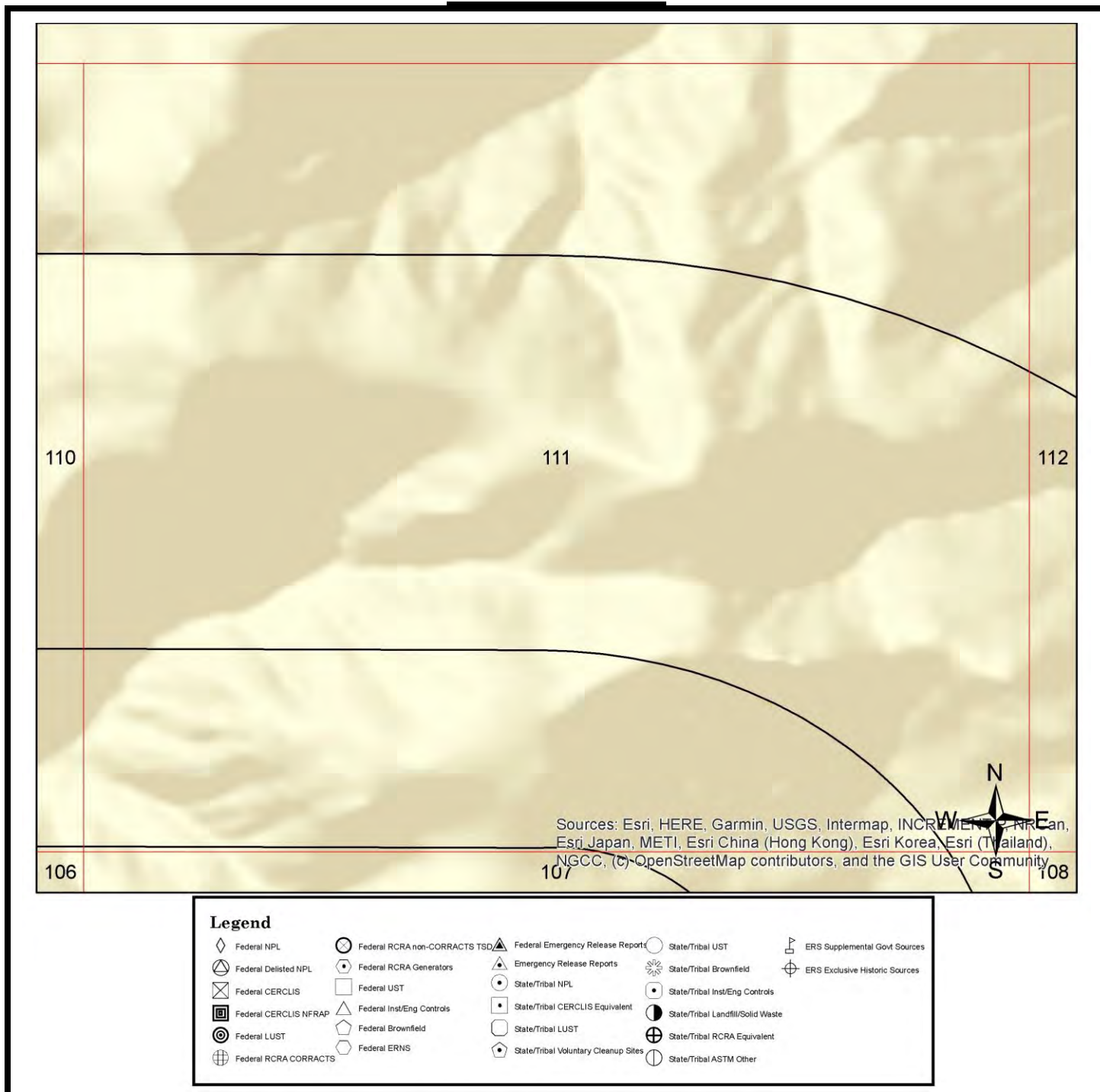
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc.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



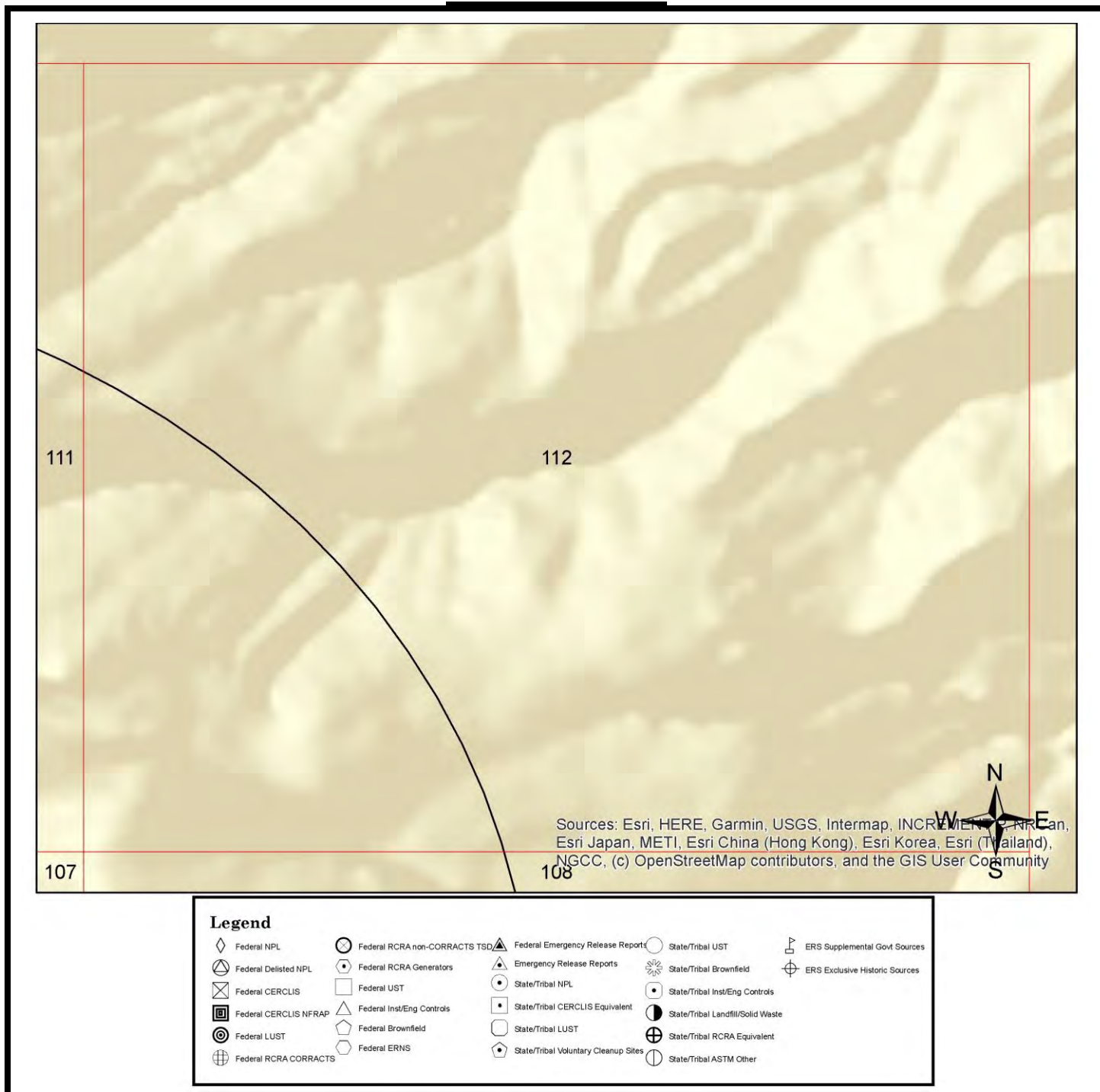
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc.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



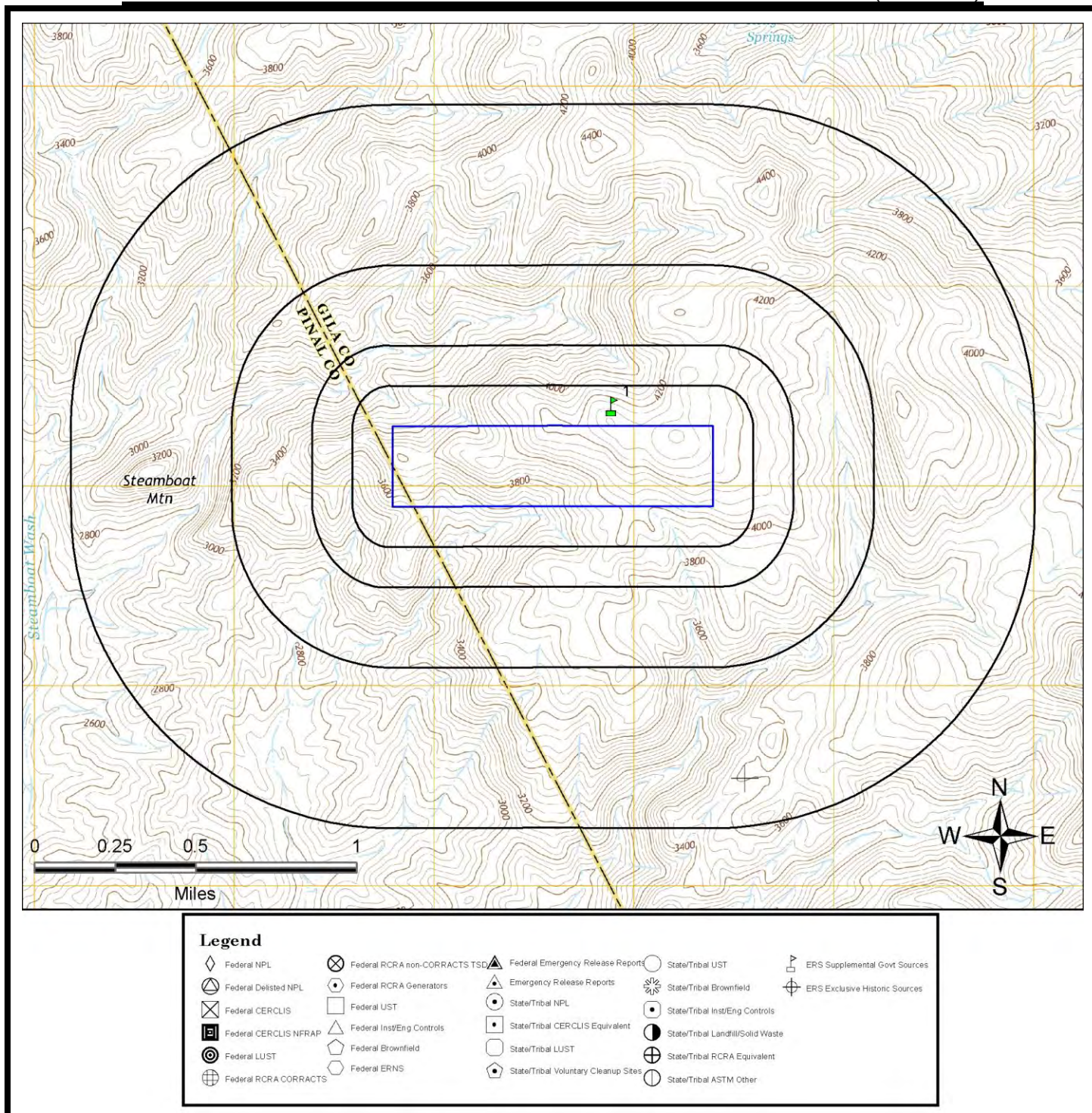
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc.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

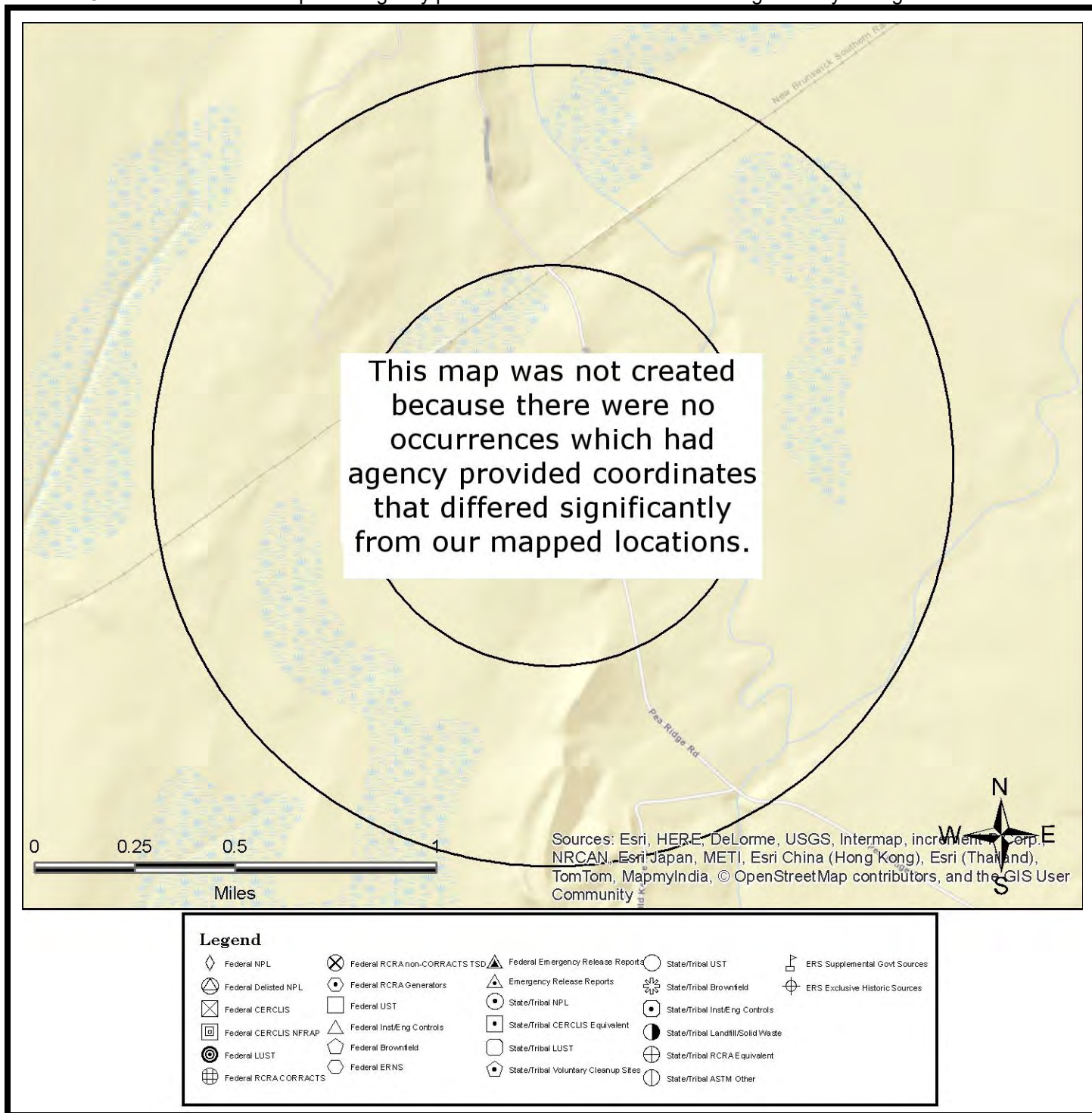
1-MILE TOPOGRAPHIC MAP W/OCCURRENCES (MAP4)



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 (MAP5)

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



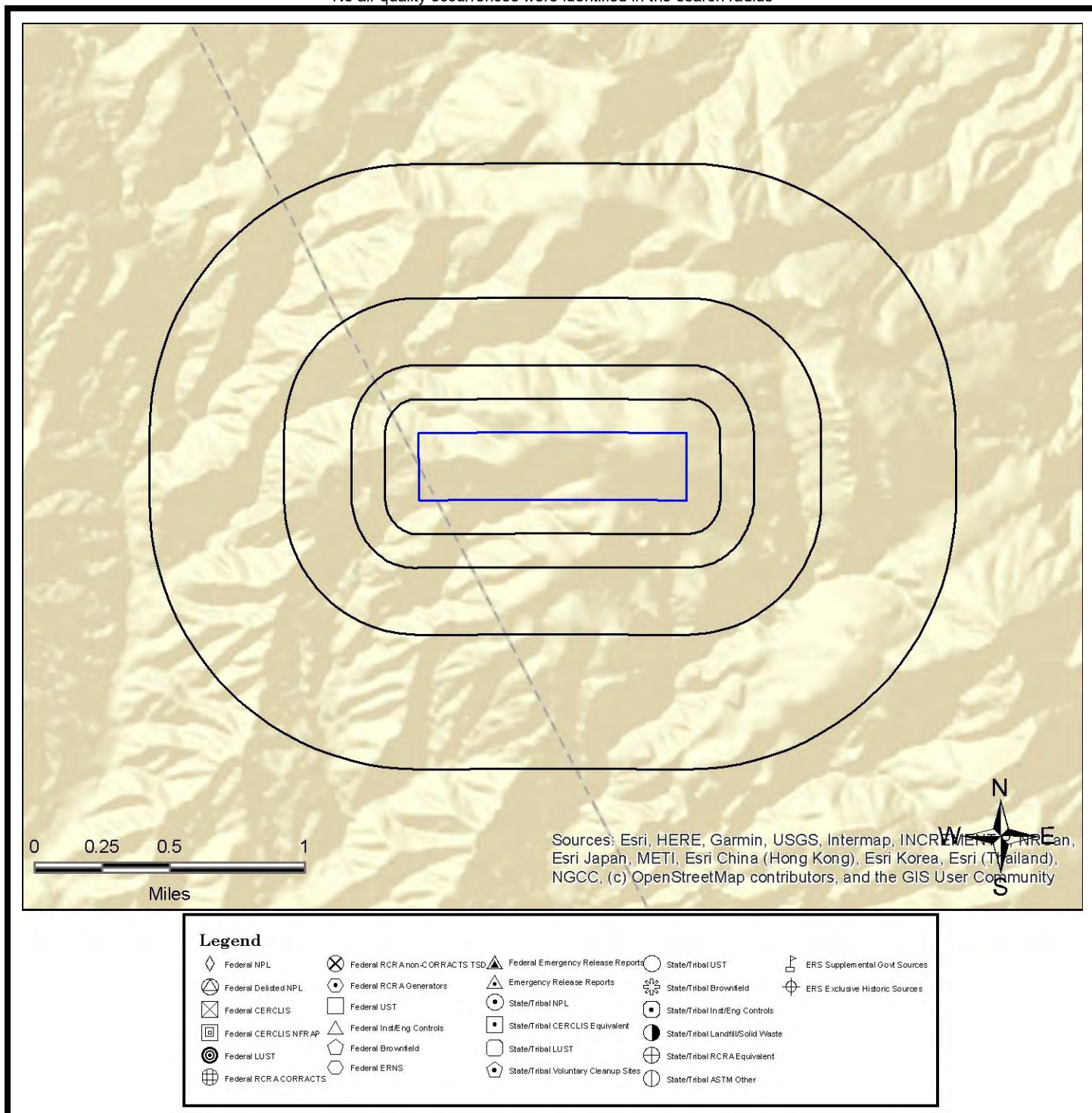
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SUMMARY OF AGENCY DIFFERENCES

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 (MAP6)

Note: Occurrences on this map are reported in Air Quality databases. Potential air plumes are drawn in the direction of the prevailing wind.
No air quality occurrences were identified in the search radius



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 6)" 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
Wells-AZ	Listed	0.06 miles N	4255 ft	1
SITE NAME			MAPS	ID
JANET A BARTON			1, 4	55-505253
ADDRESS			CITY	ZIP
Not Reported by Agency				
DETAILS				
<p> URL: https://gisweb.azwater.gov/WellRegistry/Detail.aspx?RegID=505253 Program: 55 REGISTRY_ID: 505253 OWNER_NAME: JANET A BARTON RGR_PUMP_DATA: NO WELLTYPE: EXEMPT WELL_TYPE_GROUP: EXEMPT APPROVED: Not Reported INSTALLED: 1983-04-23T00:00:00.000Z WELL_DEPTH: 82 WATER_LEVEL: 29 CASING_DEPTH: 82 CASING_DIAMETER: 8 CASING_TYPE: STEEL - PERFORATED OR SLOTTED CASING PUMP_TYPE: SUBMERSIBLE PUMP_POWER: ELECTRIC MOTOR 1 - 5 HP PUMPRATE: 28 TESTEDRATE: 28 DRAW_DOWN: 38 COMPLETION_REPORT_STATUS: X DRILL_LOG: X WELL_CANCELLED: Not Reported CADASTRAL: D04015008BCD UTM_X_METERS: 514892.8 UTM_Y_METERS: 3662400 APPLICATION_DATE: 1983-04-22T00:00:00.000Z More Details Link </p>				

RECORDS SOURCES SEARCHED

ABREVIATION	DATABASE FULLNAME	DATABASE CATEGORY	DATABASE DETAILS LINK	TOTAL LISTINGS
Abandoned-Mines-AZ	Abandoned Mines	ERS Supplemental Govt Sources	Click Here	None Found
Air-AZ	Arizona Air Permits	ERS Supplemental Govt Sources	Click Here	None Found
Allfac-AZ	Arizona Permits	ERS Supplemental Govt Sources	Click Here	None Found
ASPL-AZ	Arizona Superfund Program List	State/Tribal CERCLIS Equivalent	Click Here	None Found
AST2-AZ	Aboveground Storage Tanks	State/Tribal UST	Click Here	None Found
AST-AZ	Storage Tank Facility Data, ASTs (aka Registered Aboveground Storage Tanks)	State/Tribal UST	Click Here	None Found
BF-Closed-AZ	Brownfields Assistance Program Site List, Open Cases (aka Brownfields Tracking System)	State/Tribal Brownfield	Click Here	None Found
BF-Open-AZ	Brownfields Assistance Program Site List, Closed Cases (aka Brownfields Tracking System)	State/Tribal Brownfield	Click Here	None Found
BF-Tribal-US	Historical Tribal Brownfields	Federal Brownfield	Click Here	None Found
BF-US	Brownfields Sites	Federal Brownfields	Click Here	None Found
BioFuel-US	Bio Diesel Fuel	ERS Supplemental Govt Sources	Click Here	None Found
Brownfields-AZ	Brownfield Site Boundaries	State/Tribal Brownfield	Click Here	None Found
CDL-AZ	Clandestine Drug Labs	ERS Supplemental Govt Sources	Click Here	None Found
CDL-US	National Clandestine Drug Lab Register	ERS Supplemental Govt Sources	Click Here	None Found
CERCLIS-Archived-US	CERCLIS sites that have been archived	Federal CERCLIS NFRAP	Click Here	None Found
CERCLIS-US	Comprehensive Environmental Response, Compensation, and Liability Information System	Federal CERCLIS	Click Here	None Found
Close-WQARF-AZ	Closed Water Quality Assurance Revolving Fund (WQARF) Sites.	State/Tribal NPL	Click Here	None Found
Coal-Ash-AZ	Coal Ash Disposal Sites	ERS Supplemental Govt Sources	Click Here	None Found
Coal-Ash-Dams-US	Coal Ash Contaminated Sites and Hazard Dams	ERS Supplemental Govt Sources	Click Here	None Found

ABREVIATION	DATABASE FULLNAME	DATABASE CATEGORY	DATABASE DETAILS LINK	TOTAL LISTINGS
Controls-AZ	Remediation and Declaration of Environmental Use Restriction (DEUR) (aka AUL, Environmental Use Restriction Sites)	State/Tribal Inst/Eng Controls	Click Here	None Found
Controls-RCRA-US	RCRA Institutional and Engineering Controls Summary (aka Federal RCRA with Controls)	Federal Institutional/Engineering Controls	Click Here	None Found
Controls-US	US CERCLA Sites with Controls (aka US IC/EC, Institutional/Engineering List Controls, Land Use Controls)	Federal Institutional/Engineering Controls	Click Here	None Found
Dams-AZ	Arizona Dams	ERS Supplemental Govt Sources	Click Here	None Found
Debris-US	Historical Debris Sites	Federal Solid Waste	Click Here	None Found
Delisted-NPL-US	Delisted NPL Sites	Federal Delisted NPL	Click Here	None Found
DOD-AZ	Department of Defense Sites	ERS Supplemental Govt Sources	Click Here	None Found
DryCleaners-AZ	Dry Cleaner Facilities	ERS Supplemental Govt Sources	Click Here	None Found
DryWell-AZ	DryWells	ERS Supplemental Govt Sources	Click Here	None Found
EGRID-US	Emissions & Generation Resource Facilities	ERS Supplemental Govt Sources	Click Here	None Found
EpaNPL-AZ	Arizona National Priority List	State/Tribal NPL	Click Here	None Found
EPA-Watch-List-US	Historical EPA Watch List	ERS Supplemental Govt Sources	Click Here	None Found
ERNS-US	Emergency Response Notification System	Federal ERNS	Click Here	None Found
FA-HW-US	Financial Assurance, Hazardous Waste	ERS Supplemental Govt Sources	Click Here	None Found
FA-UST-AZ	Financial Assurance for Underground Storage Tanks	ERS Supplemental Govt Sources	Click Here	None Found
FEMA-UST-US	Historical FEMA Underground Storage Tanks	Federal UST	Click Here	None Found
FRS-US	Facility Registry Index (FINDS)	ERS Supplemental Govt Sources	Click Here	None Found
FTTS-ENF-US	Historical FIFRA/TSCA Tracking System (FTTS) Enforcement Actions	Federal ASTM Other	Click Here	None Found
FTTS-INSP-US	Historical FIFRA/TSCA Tracking System (FTTS) Inspections	ERS Supplemental Govt Sources	Click Here	None Found
FUDS-US	Formerly Used Defense Sites	ERS Supplemental Govt Sources	Click Here	None Found

ABREVIATION	DATABASE FULLNAME	DATABASE CATEGORY	DATABASE DETAILS LINK	TOTAL LISTINGS
FUSRAP-US	Formerly Utilized Sites Remedial Action Program Sites	ERS Supplemental Govt Sources	Click Here	None Found
Hist-ACIDS-AZ	Historical Cercla Information Data System	ERS Supplemental Govt Sources	Click Here	None Found
Hist-AFS2-US	Historical Air Facility System for Clean Air Act stationary sources	ERS Supplemental Govt Sources	Click Here	None Found
Hist-AFS-US	Historical Air Facility System for Clean Air Act stationary sources	ERS Supplemental Govt Sources	Click Here	None Found
Hist-Agriculture	Historical Ranches/Farms, Livestock/Agriculture	ERS Exclusive Historic Sources	Click Here	None Found
Hist-Auto Dealers	Historical Auto and Truck Dealers	ERS Exclusive Historic Sources	Click Here	None Found
Hist-Auto Repair	Historical Automotive Repair	ERS Exclusive Historic Sources	Click Here	None Found
Hist-AZ	Previously Listed Arizona Sites	ERS Supplemental Govt Sources	Click Here	None Found
Hist-CERCLIS-NFRAP-US	Historical CERCLIS-NFRAP	ERS Supplemental Govt Sources	Click Here	None Found
Hist-CERCLIS-US	Historical CERCLIS Sites	ERS Supplemental Govt Sources	Click Here	None Found
Hist-Chemical Manufacturing	Historical Manufacturing and Distribution of Chemicals, Gases, and/or Solids	ERS Exclusive Historic Sources	Click Here	None Found
Hist-Chemical-Storage	Historical Chemical/Hazardous Use Storage	ERS Exclusive Historic Sources	Click Here	None Found
Hist-Cleaners	Historical Laundry, Cleaners, and Dry Cleaning Services	ERS Exclusive Historic Sources	Click Here	None Found
Hist-Convenience	Historical Convenience Store with Possible Gas	ERS Exclusive Historic Sources	Click Here	None Found
Hist-Disposal-Recycle	Historical Hazardous Disposal/Recycle and Dumps/Waste	ERS Exclusive Historic Sources	Click Here	None Found
Hist-DryWells-AZ	Historical Dry Well Registration List	ERS Supplemental Govt Sources	Click Here	None Found
Hist-Dumps-US	Historical Dumps Inventory of 1985	Federal Solid Waste	Click Here	None Found
Hist-ERNS-US	Historical Emergency Response Notification System (ERNS)	ERS Supplemental Govt Sources	Click Here	None Found
Hist-FIFRA-US	Historical Case Administration Data from National Compliance Database (Federal Insecticide, Fungicide, and Rodenticide Act)	ERS Supplemental Govt Sources	Click Here	None Found

ABREVIATION	DATABASE FULLNAME	DATABASE CATEGORY	DATABASE DETAILS LINK	TOTAL LISTINGS
Hist-FINDS-US	Historical Facility Index System	ERS Supplemental Govt Sources	Click Here	None Found
Hist-Food-Processors	Historical Food Processing Manufacturers	ERS Exclusive Historic Sources	Click Here	None Found
Hist-Gun-Ranges	Historical Gun Ranges/Clubs	ERS Exclusive Historic Sources	Click Here	None Found
Hist-HML-AZ	Historical Hazardous Materials Logbook	ERS Supplemental Govt Sources	Click Here	None Found
Hist-LF-AZ	Historical Arizona Landfills	ERS Supplemental Govt Sources	Click Here	None Found
Hist-LUST-AZ	Historical LUST File Listing	ERS Supplemental Govt Sources	Click Here	None Found
Hist-Machine Shop	Historical Machine Shops, Welding, Machine Repair	ERS Exclusive Historic Sources	Click Here	None Found
Hist-Manufacturing	Historical Sources US: Manufacturing	ERS Exclusive Historic Sources	Click Here	None Found
Hist-Metal Plating	Historical Metal Plating	ERS Exclusive Historic Sources	Click Here	None Found
Hist-Mining	Historical Mining Operations	ERS Exclusive Historic Sources	Click Here	None Found
HIST-MLTS-US	Historical Material Licensing Tracking System	ERS Supplemental Govt Sources	Click Here	None Found
Hist-Mortuaries	Historical Crematories/Mortuaries	ERS Exclusive Historic Sources	Click Here	None Found
Hist-NPL-US	Historical National Priority List	ERS Supplemental Govt Sources	Click Here	None Found
Hist-Oil-Gas	Historical Oil and Gas Well Related Facilities	ERS Exclusive Historic Sources	Click Here	None Found
Hist-OilGas-Refiners	Historical Oil/Gas Refiners/Manufacturers/Plants	ERS Exclusive Historic Sources	Click Here	None Found
Hist-Other	Historical Environmental Facilities	ERS Exclusive Historic Sources	Click Here	None Found
Hist-Paint-Stores	Historical Paint Stores	ERS Exclusive Historic Sources	Click Here	None Found
Hist-Petroleum	Historical Petroleum Refining/Manufacturing/ Chemicals	ERS Exclusive Historic Sources	Click Here	None Found
Hist-Post-Offices	Historical Post Offices	ERS Exclusive Historic Sources	Click Here	None Found
Hist-Printers	Historical Printers and Publishers	ERS Exclusive Historic Sources	Click Here	None Found

ABREVIATION	DATABASE FULLNAME	DATABASE CATEGORY	DATABASE DETAILS LINK	TOTAL LISTINGS
Hist-RCRIS-US	Historical EPA's Resource Conservation and Recovery Act	ERS Supplemental Govt Sources	Click Here	None Found
Hist-Rental	Historical Rental Equipment & Yards	ERS Exclusive Historic Sources	Click Here	None Found
Hist-RV-Dealers	Historical Trailer and Recreational Vehicle Dealers	ERS Exclusive Historic Sources	Click Here	None Found
Hist-Salvage	Historical Vehicle Salvage Yards or Wreckers	ERS Exclusive Historic Sources	Click Here	None Found
Hist-Service Stations	Historical Service Stations/Vehicle Fueling	ERS Exclusive Historic Sources	Click Here	None Found
Hist-SPILLS-AZ	Historical Arizona Spills Reported	Emergency Release Reports	Click Here	None Found
Hist-SS-AZ	Historical Superfund Sites	State/Tribal CERCLIS Equivalent	Click Here	None Found
Hist-Steel-Metals	Historical Steel Mills/Manufacturers/Foundries/Smelters	ERS Exclusive Historic Sources	Click Here	None Found
Hist-Superfund-AZ	Historical Superfund and WQARF Priorities List	ERS Supplemental Govt Sources	Click Here	None Found
Hist-Textile	Historical Textile Mills/Manufacturers	ERS Exclusive Historic Sources	Click Here	None Found
Hist-Transportation	Historical Transportation Facilities	ERS Exclusive Historic Sources	Click Here	None Found
Hist-TRIS-US	Historical Toxic Release Inventory System	ERS Supplemental Govt Sources	Click Here	None Found
Hist-Trucking	Historical Trucking, Shipping, Delivery, and/or Storage	ERS Exclusive Historic Sources	Click Here	None Found
Hist-US	Historical Previously Listed Federal Sites	ERS Supplemental Govt Sources	Click Here	None Found
Hist-US-EC	Historical Engineering Controls Sites (aka US EC, Engineering Controls, Land Use Controls)	Federal Institutional/Engineering Controls	Click Here	None Found
Hist-US-IC	Historical Sites with Institutional Controls (aka US IC, Institutional Controls, Land Use Controls)	Federal Institutional/Engineering Controls	Click Here	None Found
Hist-UST-AZ	Historical UST Tank Listing	ERS Supplemental Govt Sources	Click Here	None Found
Hist-Vehicle-Parts	Historical Vehicle Parts	ERS Exclusive Historic Sources	Click Here	None Found
Hist-Vehicle-Washing	Historical Vehicle/Truck Washing Facilities	ERS Exclusive Historic Sources	Click Here	None Found

ABREVIATION	DATABASE FULLNAME	DATABASE CATEGORY	DATABASE DETAILS LINK	TOTAL LISTINGS
Hist-WaterWells-US	Historical Public Community Water Supply/Well Head Protection Database	ERS Supplemental Govt Sources	Click Here	None Found
HMIS-US	Hazardous Materials Information System	Federal Emergency Release Reports	Click Here	None Found
ICIS-Air-US	Integrated Compliance Information System for Air	ERS Supplemental Govt Sources	Click Here	None Found
ICIS-FEC-US	Integrated Compliance Information System for Federal Enforcement Data	ERS Supplemental Govt Sources	Click Here	None Found
ICIS-NPDES-US	National Pollutant Discharge Elimination System (NPDES)	ERS Supplemental Govt Sources	Click Here	None Found
Lead-Smelter-2-US	Historical Lead Smelter Sites	ERS Supplemental Govt Sources	Click Here	None Found
Lead-US	Lead Smelter Sites	ERS Supplemental Govt Sources	Click Here	None Found
LF-FedState-AZ	Federal Owned Landfills, Pima County	State/Tribal Solid Waste	Click Here	None Found
LF-Pima-AZ	Pima County and City of Tucson Landfills	State/Tribal Solid Waste	Click Here	None Found
LIENS-US	Superfund Liens	Federal Institutional/Engineering Controls	Click Here	None Found
LMOP-US	Landfill Methane Outreach Program	ERS Supplemental Govt Sources	Click Here	None Found
LUST-Closed-AZ	Leaking Underground Storage Tank (LUST) Database, Closed Cases	State/Tribal LUST	Click Here	None Found
LUST-Open-AZ	Leaking Underground Storage Tank (LUST) Database, Open Cases	State/Tribal LUST	Click Here	None Found
LUST-Suspected-AZ	Leaking Underground Storage Tanks, Suspected Cases	State/Tribal LUST	Click Here	None Found
Military-Bases-US	Military Base Boundaries	ERS Supplemental Govt Sources	Click Here	None Found
Mines-AZ	Arizona Mines	ERS Supplemental Govt Sources	Click Here	None Found
MINES-US	Mines Master Index File	ERS Supplemental Govt Sources	Click Here	None Found
MLTS-US	Material Licensing Tracking System	ERS Supplemental Govt Sources	Click Here	None Found
MRDS-US	Mineral Resources Data System (MRDS)	ERS Supplemental Govt Sources	Click Here	None Found
NPDES-AZ	National Pollutant Discharge Elimination System (NPDES)	ERS Supplemental Govt Sources	Click Here	None Found

ABREVIATION	DATABASE FULLNAME	DATABASE CATEGORY	DATABASE DETAILS LINK	TOTAL LISTINGS
NPL-R9-US	NPL Region 9 Site Boundaries	Federal NPL	Click Here	None Found
NPL-US	National Priorities List	Federal NPL	Click Here	None Found
OGW-AZ	Arizona Oil and Gas Wells	ERS Supplemental Govt Sources	Click Here	None Found
Oil-Centers-AZ	Used Oil Collection Centers	State/Tribal ASTM Other Med	Click Here	None Found
PADS-US	PCB Registration Database System	Federal ASTM Other	Click Here	None Found
PCB-US	PCB Transformers	Federal ASTM Other	Click Here	None Found
PCS-US	Historical Permit Compliance System for Clean Water Act	ERS Supplemental Govt Sources	Click Here	None Found
Proposed-NPL-US	Proposed NPL Sites	Federal NPL	Click Here	None Found
RADINFO-US	Radiation Information Database	ERS Supplemental Govt Sources	Click Here	None Found
RCRA-CESQG-US	Resource Conservation and Recovery Act, Conditionally Exempt Small Quantity Generators (aka RCRA CESQG)	Federal RCRA Generators	Click Here	None Found
RCRA-COR-US	Resource Conservation and Recovery Act, - Corrective Actions (aka RCRA CORRACTS)	Federal RCRA CORRACTS	Click Here	None Found
RCRA-LQG-US	Resource Conservation and Recovery Act, Large Quantity Generators (aka RCRA LQG)	Federal RCRA Generators	Click Here	None Found
RCRA-NON-US	Resource Conservation and Recovery Act, Non-Hazardous Generators (aka RCRA Non-Haz, RCRA NonGen, RCRA No longer Regulated)	Federal RCRA Generators	Click Here	None Found
RCRA-SQG-US	Resource Conservation and Recovery Act, Small Quantity Generators (aka RCRA SQG)	Federal RCRA Generators	Click Here	None Found
RCRA-TSDF-US	Resource Conservation and Recovery Act -, Treatment, Storage, and Disposal Facilities (aka RCRA TSD, RCRA TSDF)	Federal RCRA non-CORRACTS TSD	Click Here	None Found
RemOther-Closed-AZ	Remediation and Declaration of Environmental Use Restriction (DEUR) Search, Other Remediation Sites, Closed Cases	State/Tribal ASTM Other Low	Click Here	None Found
RemOther-Open-AZ	Remediation and Declaration of Environmental Use Restriction (DEUR) Search, Other Remediation Sites, Open Cases	State/Tribal ASTM Other High	Click Here	None Found

ABREVIATION	DATABASE FULLNAME	DATABASE CATEGORY	DATABASE DETAILS LINK	TOTAL LISTINGS
RFG-Lab-US	Reformulated Gasoline (RFG)	ERS Supplemental Govt Sources	Click Here	None Found
RMP-US	Risk Management Plans	ERS Supplemental Govt Sources	Click Here	None Found
ROD-US	Records of Decision	ERS Supplemental Govt Sources	Click Here	None Found
SAA-Agreements-US	Sites with Superfund Alternative Approach Agreements	Federal ASTM Other	Click Here	None Found
SDWIS-US	Safe Drinking Water Information System	ERS Supplemental Govt Sources	Click Here	None Found
SSTS-US	Section 7 Tracking System	ERS Supplemental Govt Sources	Click Here	None Found
SWF-AZ	Active Municipal Solid Waste Landfills (aka Directory of Solid Waste Facilities)	State/Tribal Landfill/Solid Waste	Click Here	None Found
SWF-Closed-AZ	Closed Solid Waste Facilities	State/Tribal Landfill/Solid Waste	Click Here	None Found
SWLF-US	Solid Waste Facilities	Federal Solid Waste	Click Here	None Found
SWT-AZ	Special Waste Transporter List	ERS Supplemental Govt Sources	Click Here	None Found
Transfer-AZ	Arizona Solid Waste Transfer Stations	State/Tribal Landfill/Solid Waste	Click Here	None Found
Tribal-Air-US	Tribal Air Permitted Facilities	ERS Supplemental Govt Sources	Click Here	None Found
Tribal-LUST-Closed-Reg9	Tribal Leaking Underground Storage Tanks, Region 9 (aka Indian Lust)	Federal LUST	Click Here	None Found
Tribal-LUST-Open-Reg9	Tribal Leaking Underground Storage Tanks , Region 9 (aka Indian Lust)	Federal LUST	Click Here	None Found
Tribal-ODI-US	Tribal Open Dump Sites	Federal Solid Waste	Click Here	None Found
Tribal-UST-Reg9	Tribal Underground Storage Tanks (aka Tribal UST)	Federal UST	Click Here	None Found
Tribal-VCP-US	Tribal VCP	Federal Tribal VCP	Click Here	None Found
TRIS2000-US	Historical Toxics Release Inventory System	ERS Supplemental Govt Sources	Click Here	None Found
TRIS2010-US	Toxics Release Inventory System	ERS Supplemental Govt Sources	Click Here	None Found
TRIS80-US	Historical Toxics Release Inventory System	ERS Supplemental Govt Sources	Click Here	None Found
TRIS90-US	Historical Toxics Release Inventory System	ERS Supplemental Govt Sources	Click Here	None Found

ABREVIATION	DATABASE FULLNAME	DATABASE CATEGORY	DATABASE DETAILS LINK	TOTAL LISTINGS
TSCA-US	Toxics Substance Control Sites	ERS Supplemental Govt Sources	Click Here	None Found
UIC-AZ	Underground Injection Control Wells	ERS Supplemental Govt Sources	Click Here	None Found
UMTRA-US	Historical Uranium Mill Tailings Remedial Action Sites	ERS Supplemental Govt Sources	Click Here	None Found
USGS-Waterwells-US	Ground Water Site Inventory	ERS Supplemental Govt Sources	Click Here	None Found
UST-AZ	Storage Tank Facility Data, USTs (aka Underground Storage Tank Listing)	State/Tribal UST	Click Here	None Found
Vapor-Intrusions-US	Vapor Intrusion Database	ERS Supplemental Govt Sources	Click Here	None Found
VCP-Closed-AZ	Voluntary Remediation Program Sites, Closed Cases	State/Tribal Voluntary Cleanup Sites	Click Here	None Found
VCP-Open-AZ	Voluntary Remediation Program Sites, Open Cases	State/Tribal Voluntary Cleanup Sites	Click Here	None Found
VCP-Other-AZ	Voluntary Remediation Program Sites	State/Tribal Voluntary Cleanup Sites	Click Here	None Found
Waste-tire-AZ	Waste Tire Sites	ERS Supplemental Govt Sources	Click Here	None Found
Wells-AZ	Arizona Wells	ERS Supplemental Govt Sources	Click Here	1
WQARF-AZ	Water Quality Assurance Revolving Fund (WQARF) Sites	State/Tribal NPL	Click Here	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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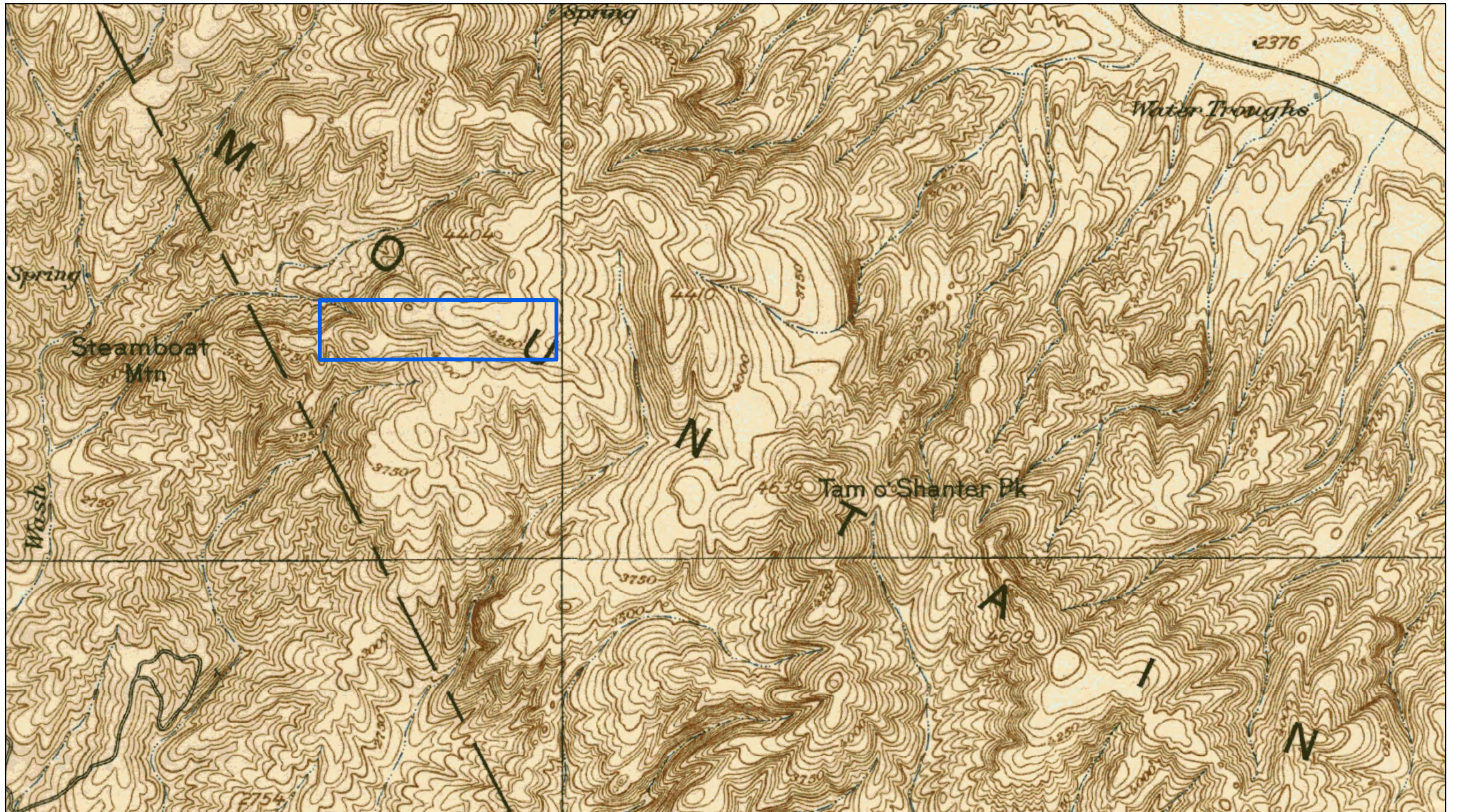
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APPENDIX E

Historical Topographic Maps

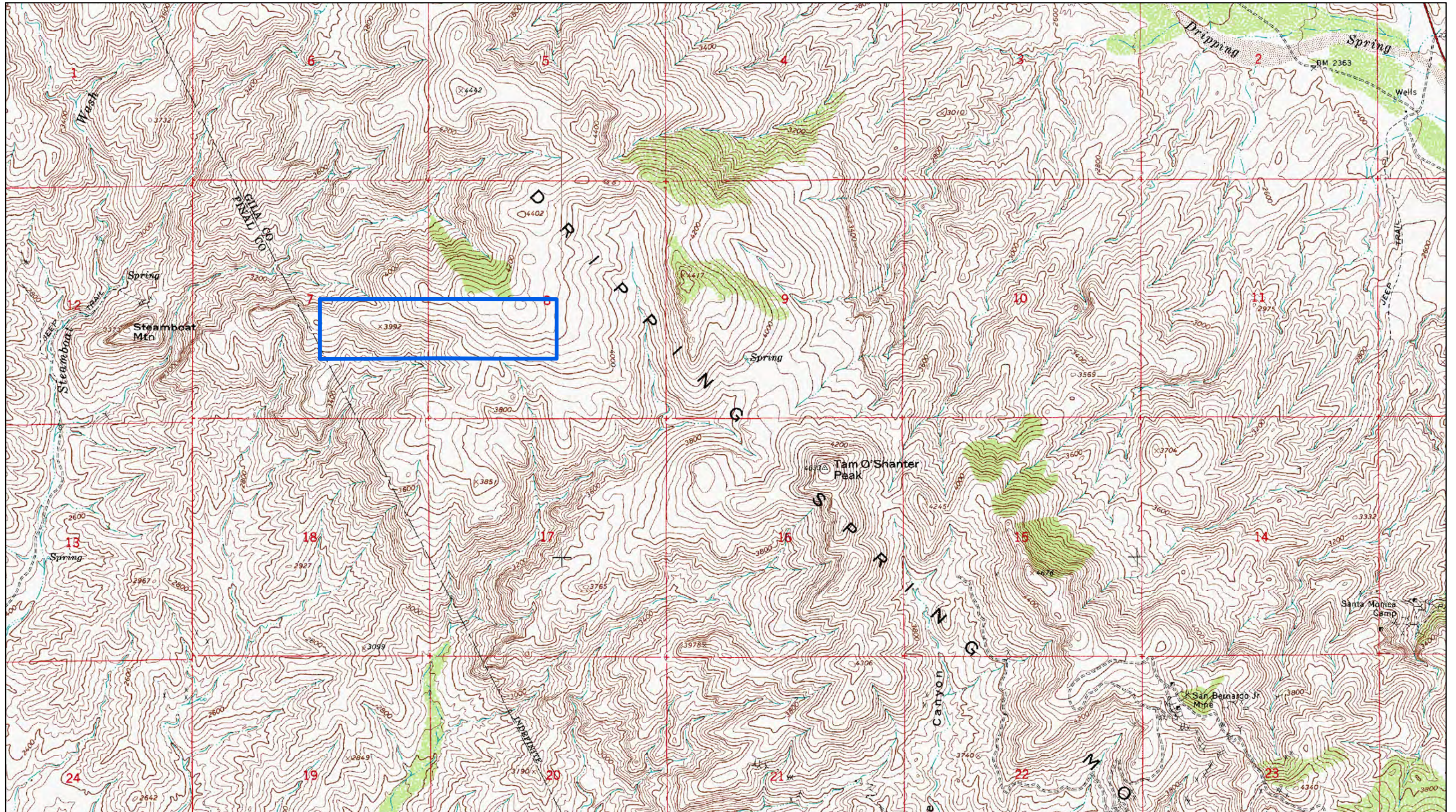


Legend


 Dripping Springs Parcel



0 1,000 2,000
Feet



Legend


 Dripping Springs Parcel




0 1,000 2,000
Feet



Legend

 Dripping Springs Parcel




0 1,000 2,000
 Feet

APPENDIX F


Historical Aerial Photographs

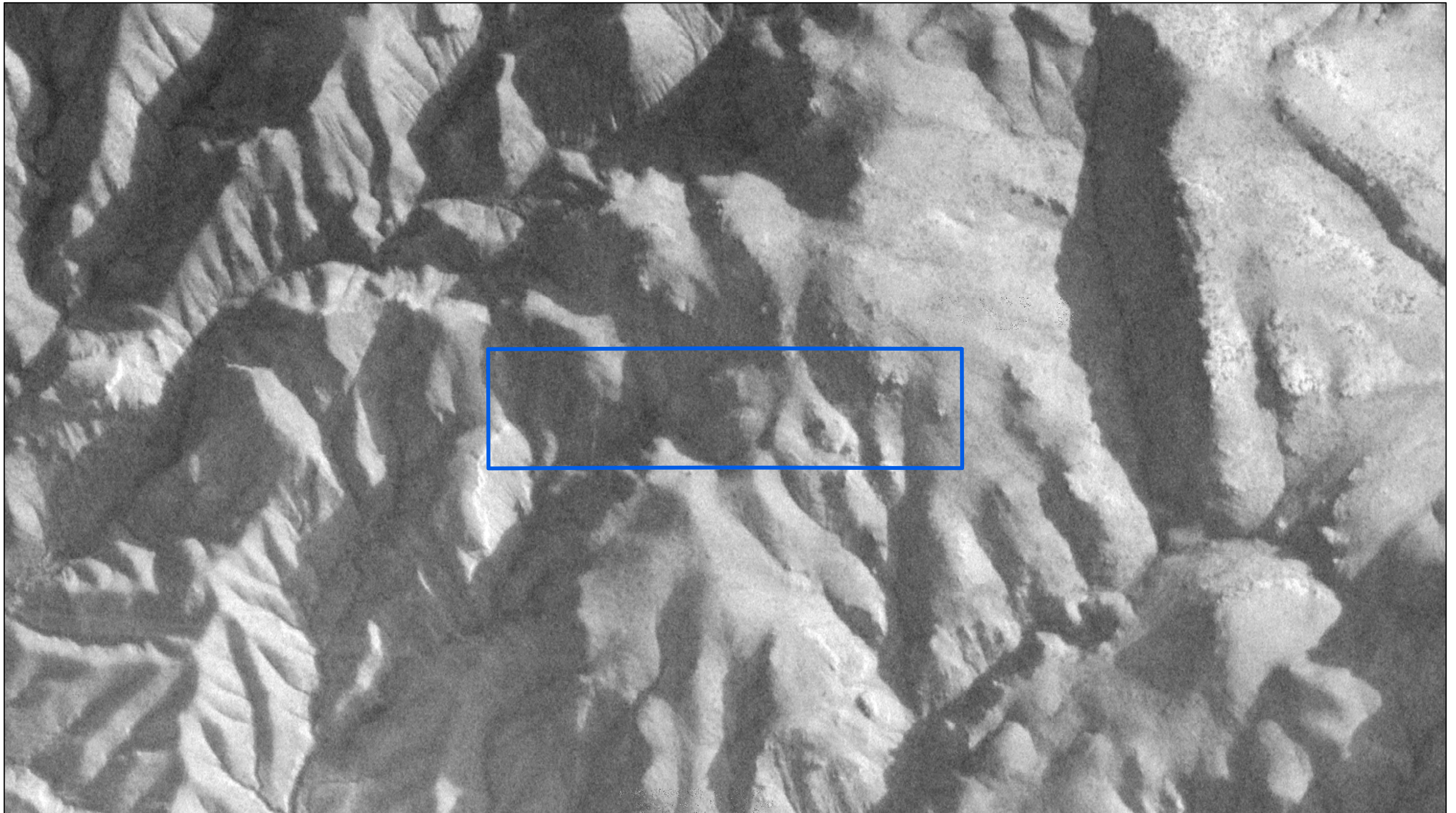


Legend


 Dripping Springs Parcel




0 500 1,000
 Feet



Legend

 Dripping Springs Parcel



0 500 1,000
 Feet

APPENDIX G

**Gila County
Assessor
Records Map**

"FOR INFORMATION ONLY, NO LIABILITY ASSUMED."

GILA COUNTY ASSESSOR

T4S R15E

APPENDIX H

Gila County Property Records

Property Profile

The Office of the Gila County Assessor

1400 E. Ash Street Globe, AZ 85501 - Phone: (928) 402-8714

Account: R000017

Tax Year: 2020

Account Type: Agricultural

*Tax Rate: 0.178797

Version: 04/09/2020

Area ID: 4100

*Estimated Tax: \$34.70

Parcel: 10101006

Parcel Size: 80 - A

Status: Active

Name and Address Information

RESOLUTION COPPER MINING LLC
C/O LEGAL DEPARTMENT
102 MAGMA HEIGHTS BOX 1944
SUPERIOR, AZ 85173

Property Location

Dripping Springs Ranch
Winkelman 85192

Legal Description

Section: 08 Township: 04S Range: 15E N2 SW4 SEC 8 T4S R15E = 80..0 AC (SPRING PERMITS)

Assessment Information

	2020		2019	
	FCV	Secondary Assessed	FCV	Secondary Assessed
Land	\$1,294	\$194	\$1,294	\$194
Improvements	-	-	-	-
Personal Property	-	-	-	-
Exempt	-	-	-	-
Total	\$1,294	\$194	\$1,294	\$194

	2020		2019	
	LPV	Primary Assessed	LPV	Primary Assessed
Value	\$1,294	\$194	\$1,294	\$194
Exempt	-	-	-	-
Total	\$1,294	\$194	\$1,294	\$194

User Remarks



* The results of this property tax estimation are for informational purposes only. County Assessors do not collect taxes, determine tax rates, or figure the total amount of taxes owed. Tax rates are set on or before the third week in August each year by the County Board of Supervisors. This calculation will be an ESTIMATE ONLY of the actual tax bill using the most current tax rates.

Property Profile

The Office of the Gila County Assessor

1400 E. Ash Street Globe, AZ 85501 - Phone: (928) 402-8714

Account: R000013

Tax Year: 2020

Account Type: Agricultural

*Tax Rate: 0.178797

Version: 04/09/2020

Area ID: 4100

*Estimated Tax: \$34.70

Parcel: 10101005

Parcel Size: 80 - A

Status: Active

Name and Address Information

RESOLUTION COPPER MINING LLC
C/O LEGAL DEPARTMENT
102 MAGMA HEIGHTS BOX 1944
SUPERIOR, AZ 85173

Property Location

Dripping Springs Ranch
Winkelman 85192

Legal Description

Section: 07 Township: 04S Range: 15E N2 SE4 SEC 7 T4S R15E = 80.0 AC

Assessment Information

	2020		2019	
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Improvements	-	-	-	-
Personal Property	-	-	-	-
Exempt	-	-	-	-
Total	\$1,294	\$194	\$1,294	\$194

	2020		2019	
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User Remarks



* The results of this property tax estimation are for informational purposes only. County Assessors do not collect taxes, determine tax rates, or figure the total amount of taxes owed. Tax rates are set on or before the third week in August each year by the County Board of Supervisors. This calculation will be an ESTIMATE ONLY of the actual tax bill using the most current tax rates.

APPENDIX I

Resumes

Education:

- MBA, University of Arizona
- BS, Civil Engineering, University of Arizona

Special Expertise:

- Environmental Site Assessments
- Energy Efficiency Analysis
- Water System Modeling and Pipe Network Analysis
- Large Water System Master Planning
- Water Pumping Facility Design and Permitting
- Site Civil Engineering
- Well Design and Permitting
- Reservoir Design and Analysis
- Infrastructure Route Studies
- Potable/Reclaimed Water Main Extensions
- Water and Wastewater Treatment Design
- Reclaimed/Sewer System Planning
- Contract Preparation and Bidding Services
- Construction Administration
- Water System Training
- Loan and Grant Application Preparation

Registration / Certification:

- Arizona #22999, 1989
- California #44219, 1989
- Nevada #09281, 1991
- New Mexico #14546, 1999

Professional Affiliations:

- 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:



Mark Taylor is an engineering Principal and one of WestLand’s founders. He has over 30 years of experience in water resources and wastewater systems engineering, including the design of water and wastewater systems for large, multi-disciplinary public works projects, master-planned communities, private water company master planning/energy efficiency evaluation, and the mining industry. Mark is responsible for the development of water system master plans; water policy, energy efficiency studies, well, reservoir, booster station, and transmission main design; water treatment design; and the assessment of rates and development impact fees for private and municipal clients. He is also experienced with wastewater master plan preparation, energy efficiency and feasibility studies, system modeling and simulation, and capacity analyses. Mark has

provided training and presentations on water and wastewater system and energy efficiency topics in numerous forums. Mark acts as the Environmental Professional in overseeing and certifying Phase I Environmental Site Assessments (ESAs) for WestLand. He meets the education, training, and experience requirements as set forth in the All Appropriate Inquiry Rule (40 CFR §312.10(b)).

Mr. Taylor has conducted and certified numerous Phase I Environmental Site Assessments at various locations in Arizona for the past 12 years. Sites have included rural ranchlands, neighborhood areas, health centers, automotive and other commercial sites, transportation corridors, and industrial and mine properties. Experience includes site reconnaissance and characterization, environmental record sources review, personal interviews, identification of potential contaminate migration, and historical review in determination of potential recognized environmental conditions. Mr. Taylor has acted as the principal reviewer for technical reports.

Selected Experience:

Sahuarita Water Arsenic Treatment. *Principle in Charge* of the design and project coordination to construct an arsenic treatment facility for Sahuarita Water Company. The new 2,000 gpm adsorption arsenic treatment facility utilized a newly manufactured regenerable adsorptive media which meets both NSF and ADEQ requirements. Extensive coordination was required with many design professionals, water company staff, vendors, contractors, and regulators to accomplish this task. This facility will be the first adsorptive plant to implement the regenerable media and pilot testing was conducted to verify the overall performance against existing disposable media. 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.

Town of Oro Valley Potable Water Master Plan; Oro Valley, Arizona; Town of Oro Valley Water Utility. *Principal in Charge* of the development of a water system master plan whose scope was divided into four tasks. Task 1 consisted of public outreach and coordination with the Town, during which WestLand maintained a complete file of all correspondence, agendas, meeting minutes, memoranda, and data throughout the duration of the project. Task 2 involved the development of a project scope and approach, including the definition of key issues such as the geographic boundaries of the service area, the planning horizon, and the long-term goals of the water utility. Task 3 was the synthesis of the regulatory requirements and restraints, and the incorporation of these regulatory components into the design approach for the master plan. Task 4 consisted of the identification of the infrastructure required to correct existing system deficiencies and a determination of the future infrastructure required to support development within the ultimate Town service area.

City of Nogales Arsenic Treatment 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. *Principal in Charge*. For over a decade, the Flowing Wells Irrigation District, Metropolitan Domestic Water Improvement District, Town of Marana, and Town of Oro Valley have worked collaboratively to develop a sustainable water supply for their customers. This effort has evolved over time to focus on the establishment of a water delivery system to deliver Central Arizona Project water to northwestern Pima County. As part of this effort, Mr. Taylor served as Principal-in-Charge of the development of a route analysis for the delivery system that would allow for the direct use of CAP water by each partner. The project consisted of three planning/engineering tasks: Task 1 – preliminary route evaluation, screening, and route evaluation matrix preparation; Task 2 – technical evaluation of alternative routes; and Task 3 – final route evaluation. Five potentially feasible routes were reviewed during the preliminary evaluation and screening process, two of which were identified for more detailed study.

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

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. The facility 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 nitrate concentration 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.

Freeport-McMoRan Sierrita, Groundwater Mitigation Project. *Principal in Charge.* WestLand prepared design plans and specifications for a groundwater mitigation project to intercept groundwater from the mine site and deliver it back to the plant site to implement best environmental management practices. The project consisted of the site and equipping design for 19 new groundwater wells, a 350,000-gallon open-top welded steel reservoir, a 10,500 gpm booster station, and 13.2 miles of 8- to 36-inch HDPE pipeline. The project also included medium voltage transmission, distribution, and switchgear design, instrumentation and control for wells and booster station sites, Operation and Maintenance Manual, surge analysis, detailed cost estimates, and environmental permitting. WestLand is providing bidding assistance and construction period services for shop drawing reviews.

Freeport-McMoRan Sierrita – SXEW Facility Filtration Plant. *Principal in Charge* of the design and project coordination to construct a filtration facility for the Freeport McMoran (FMI) solvent extraction and electro winning (SXEW) processing plant. The new filtration system consisted of two 10,000 gallon stainless steel filters to remove organics from the SXEW process effluent prior to further processing at the crystal plant. The process included a 290 gallons per minute (gpm) variable frequency drive (VFD) pump station pumping the pregnant liquor through the filtration plant to remove the organics from the system and backwash the organics to waste. The project included design of the pumping system, piping, valving, backwash system, control system, air-blower/scour system and structural design of slab and tanks.

Freeport-McMoRan Sierrita. Potable Water Wells, Booster Station, Reservoir and Arsenic Treatment Systems. *Principal in Charge* for scope of services included preparation of design documents and bidding and construction period services for the design of two new water plant sites, each of which included a new 2,500 gpm variable frequency drive, potable water wells, a coagulation-filtration arsenic treatment plant, 300,000-gallon forebay reservoir, and 2,500 gpm booster station. This project also included two miles of 16-inch transmission pipeline, including borings for interstate and wash crossings. WestLand also provided cultural resource surveys, native plant and environmental surveys, and mitigation.

Tonopah Desert Recharge Project – Recovery Wellfield and Treatment Plant. *Principal in Charge.* The Tonopah Desert Recharge Project (TDRP) is a facility owned by the Central Arizona Project (CAP) to recharge and bank Colorado River water into the west Salt River Valley Groundwater Basin. WestLand developed conceptual designs for a recovery

wellfield and arsenic/fluoride treatment plant to recover banked water from the aquifer and return it to the CAP canal. The project included the design of 9 wells with 2,750 gpm of flow each, which are to be constructed in 3 phases over 20 years as the project's recovery requirements increase. The arsenic/fluoride treatment plant is also designed to ramp up its treatment capacity in phases as both the volume of water treated and the concentration of contaminants increase. Ultimately the wellfield is designed to recover 480,000 acre-feet of water over the life of the project. These designs, as well as capital costs and operations and maintenance costs, were presented in a report prepared for CAP. This project was completed in cooperation with CAP and Montgomery and Associates.

Red Rock Nitrate Treatment. *Principal in Charge* of the design and project coordination to construct an 800 gpm nitrate treatment plant. The nitrate treatment facility consists of steel filtration vessels which contain a chloride form of anion exchange resin media. The system is designed so that only enough of the stream is treated to meet the 8 mg/l nitrate goal by continuously testing the nitrate level in the blended water. The treated water is sent to an existing storage reservoir for distribution. Extensive coordination was required with many design professionals, water company staff, vendors, contractors, and regulators to accomplish this task.

University of Arizona Tech Park - Independent Audit of Drinking Water System 20-567. *Principal in Charge.* WestLand provided an audit/evaluation of the drinking water sampling plan and locations currently used by the Project. Recommendations for testing were made and new locations were suggested for some of the current sampling I.D. points to prevent any false readings or sampling of water that is outside of the responsibility of the Project facilities management.

Red Rock Utilities 208 Plan Amendment; Pinal County, Arizona; Red Rock Utilities, LLC. *Principal in Charge* of the development of a 208 Plan Amendment that addresses the sanitary sewage collection, treatment, and disposal needs of a 1,300-acre residential, commercial, and industrial-use project in southern Pinal County. The plan amendment describes the 20-year needs of the development, including existing water reclamation facilities and planned expansions and improvements; the types of permits needed, including NPDES, APP, and reuse; construction priorities and schedules for completion; implementability; financing measures; and public participation. Total buildout capacity for the planning area is estimated to be 7.35 million gpd, and to meet the growing needs of the development, a 1.5-million-gpd expansion is required to the current sequencing batch reactor water reclamation facility, followed by an additional 1.5-million-gpd expansion and the construction of at least one additional water reclamation facility. Generally, onsite gravity sewers will collect the sanitary sewage and convey that flow to an existing or proposed wastewater reclamation facility, although sewage lift stations and force mains may be necessary.

Town of Patagonia Wastewater Treatment Facility; Patagonia, Arizona; Town of Patagonia. *Principal in Charge* of assisting the Town of Patagonia in the replacement of its aging wastewater treatment plant with an extended aeration plant with a capacity of 120,000 gpd. The replacement plant was designed to handle anticipated growth within the service area and was constructed to treat an average of 110,000 gpd of effluent. Other facilities constructed as part of the design included an anoxic basin, two aeration basins, a new blower, a belt press for sludge processing, a new sewer lift station, and a new headworks with flow meter and screenings removal.

CHRISTOPHER E. RIFE, MS



Phase 1 ESA Specialist

Experience: 12+ Years

Education:

- MS, Environmental Policy and Management/University of Denver
- BA, Philosophy/Humboldt State University
- Additional Coursework in Hazardous Materials Management and Wetlands Science

BACKGROUND:

Mr. Rife is a Senior Project Manager in the Environmental Services Group. He specializes in regulatory compliance for environmental and engineering projects at industrial, commercial, residential, and transportation sites. His areas of expertise include water resources permitting, environmental resources plans and studies, and environmental site assessments. He has over 20 years of experience in federal and state environmental regulatory programs covering a broad range of business sectors. His Phase I Environmental Site Assessment (ESA) experience includes underground storage tank (UST) investigations, solid and hazardous waste, and health and safety audit services. He has over 12 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.

SELECTED EXPERIENCE:

Resolution Copper Mine Site; Superior, Arizona. Task Manager. Mr. Rife conducted Environmental Site Assessments and Ecological Overview studies for a set of private properties contemplated for purchase by the client in anticipation of a land exchange for targeted public lands. He visited the remote, rural sites to assess potential for environmental liabilities, compiled environmental setting information to combine with biological data from technical specialists, and authored reports. The land exchange was recently approved, and Mr. Rife provided technical review of updates to the original reports.

Vigneto Development; Benson, Arizona. Senior Technical Reviewer. Mr. Rife participated in site visits and provided senior technical review of a Phase I Environmental Site Assessment of 12,500 acres proposed for residential development in southern Arizona. The property is largely undeveloped, although portions are used for cattle ranching and it is crossed by electrical transmission lines and a buried natural gas pipeline, a highway, and an abandoned railroad line. No recognized environmental conditions were identified during the assessment.

Miami Mine; Miami, Arizona. Project Manager. Mr. Rife has completed several projects at this legacy copper mine in southern Arizona. He recently managed Phase I Environmental Site Assessments for two properties owned by the client and intended for divestment. One of the properties had been used by the Arizona National Guard as an armory administrative center, whereas the other was a company recreation site, including a drive-in movie theater. No recognized environmental conditions were identified at either property.

Hazardous Waste Sites; Confidential Client, United States. Task Manager. Mr. Rife was the principal internal reviewer of Phase I Environmental Site Assessment reports for 60 hazardous waste collection sites, transfer facilities, incinerators, and landfills on behalf of client bidding to purchase portfolio. The work 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. (Services provided at previous firm.)



Christopher E. Rife, page -2-

Newmire Smelter Site; Telluride, Colorado. Project Manager. Mr. Rife managed a permitting project for site remediation activities required under an agreement with the State of Colorado. Technical work included a biological evaluation, archaeological studies, jurisdictional delineation, and site revegetation design after closure. Mr. Rife was instrumental in redesigning engineering plans for the remediation effort to avoid impacts to Waters of the United States, thereby avoiding a requirement for authorization under the Clean Water Act Section 404 program.

Former Satralloy Site; Steubenville, Ohio. Project Manager. Mr. Rife is currently serving as permitting manager for a team conducting interim actions for a remedial investigation/feasibility study (RI/FS) of an abandoned chromium smelter site in eastern Ohio. Assignments have included environmental permitting support in regard to state and federal wetlands and waterways programs, and engineering support for infrastructure improvements to facilitate transportation to the site. Mr. Rife was responsible for environmental support activities, including compliance with the federal Clean Water Act Section 404 program and state isolated wetlands permit program. Federal- and state-jurisdictional wetlands and waterbodies are present and may be filled by future project actions. A preconstruction notification under the Section 404 Nationwide Permit 38, Cleanup of Toxic and Hazardous Waste, has been prepared and submitted to the U.S. Army Corps of Engineers to authorize placement of fill in waters of the United States for the remedial actions. The documentation included a jurisdictional delineation, biological evaluation, and cultural resources review. Mr. Rife's work has also supported an Ecological Risk Assessment conducted by others on the project team. Mr. Rife also oversaw transportation-engineering assignments, including railroad and bridge design, to allow heavy equipment and materials to be transported to and from the site for the RI/FS. (Transportation services provided at previous firm.)

Industrial Site Expansion; Cochise County, Arizona. Project Manager. Mr. Rife was responsible for preparing an Environmental and Social Impact Assessment for a substantive expansion of an industrial site in southeastern Arizona. The document allowed project reviewers—corporate decision-makers and financiers—to understand the potential impacts to environmental and social resources that may result from the project. The assessment was modeled after a National Environmental Policy Act Environmental Assessment, but was for internal use only. It relied upon existing environmental permitting and planning documents, supplemented by WestLand's research and site-specific studies of resources not previously addressed, such as traffic and visual impacts. Mr. Rife was responsible for scoping the assessment, conducting the existing report review, researching additional information, and writing the report.

DIANA L. SANDOVAL, MA



Senior Environmental Project Manager

Experience: 12+ Years

Education:

- MA, Land Use and Community Planning/Northern Arizona University - With Distinction
- BSc, Regional Development/University of Arizona - Cum Laude
- ATSM Phase I and Phase II Environmental Site Assessments for Commercial Real Estate Workshop

Registration / Certification:

- Mine Safety and Health Administration Certification
- 90-hour Real Estate Pre-licensing

BACKGROUND:

Diana Sandoval is a senior environmental project manager with a master's degree in land use and community planning and 12 years of regulatory compliance and permitting services related to land use and transportation planning, distribution/ transmission power planning, renewable energy projects, mining expansions, and residential and commercial development. She offers clients coordinated and collaborative project leadership required to address multiple stakeholders. She has experience with both small- and large-scale projects involving federal, state and local requirements. Her expertise is in Phase I Environmental Site Assessments, Clean Water Act Permitting, Endangered Species Act compliance, National Environmental Policy Act documentation, Arizona State Land Department authorization and local riparian and zoning processes.

Ms. Sandoval has prepared numerous Phase I Environmental Site Assessments (ESAs) for various property types pursuant to American Society for Testing and Materials (ASTM) standards E1527-05, 1527-13 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.

SELECTED EXPERIENCE:

Environmental Compliance for University of Arizona Science and Technology Park (UA Tech Park), Pima County, Arizona. Provides on-call services for UA Tech Park addressing federal, state and local development project environmental clearances and risk reduction. Ms. Sandoval has documented compliance with CWA Section 404 under preliminary JD; obtained concurrence from the Corps of no-jurisdictional waters for the UA Tech Park property; oversaw cultural resource survey and data recovery in accordance with current archaeological standards in a manner that would conform to National Historic Preservation Act (NHPA) standards; completed biological evaluations, including surveys for listed plant species and surveys for the western burrowing owl; and prepared Phase I ESAs for prospective tenants within the Solar Zone. Ms. Sandoval has also assisted with development of formal environmental planning protocols and guidance for the UA Tech Park Master Plan. She has provided environmental documentation to support demonstration of NEPA project readiness for Department of Transportation grant applications.



UA Tech Park at Rita Road Phase I ESA. Conducted a Phase I ESA for approximately 780 acres including a former industrial manufacturing facility and recently a multi-tenant commercial office and limited production technology research facility, office spaces, laboratory spaces, undeveloped open space, and recreational facilities. Assessment included review of prior complex prior site assessments, tank farms, chemical storage and distribution areas, railroad spur, closed industrial wastewater system and monitoring wells.

Pinal Central Substation to the Tortolita Substation Transmission Line Project, Tucson Electric Power (TEP), Pinal County, Arizona. Project Manager. Managed environmental regulatory compliance for TEP transmission line project, which runs approximately 41 linear miles in Pinal County. Assisted TEP in addressing NEPA, National Historic Preservation Act, CWA, Endangered Species Act (ESA), 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, federally owned lands managed by the Bureau of Reclamation and the San Carlos Irrigation Project, an agency of the Bureau of Indian Affairs. Ms. Sandoval obtained an Approved JD from the Corps regarding the absence of jurisdictional waters for the project, documented that project was not likely to not adversely impact federally protected species, coordinated with AGFD 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. Presented methods and results at the Society for Ecological Restoration November 2014 annual conference for a project study that used remote sensing and predicted growth rates to assess saguaro conflict with the transmission lines over the next 20 years.

ADDITIONAL EXPERIENCE:

- Completed Phase I ESA for Pima County Community Development and Neighborhood Conservation Department for the Copper Vista I and II subdivisions to support compliance with the U.S. Department of Housing and Urban Development (HUD) Neighborhood Stabilization Program 2 requirements. Numerous environmental records were assessed pursuant to the findings of the government database records review including the Tucson International Airport Area (TIAA) superfund site.
- 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 Phase I ESAs for linear transportation projects involving potential real estate transactions including the Town of Marana's project replacing the Ina Road bridge crossing over the Santa Cruz River and the Pima County's Department of Transportation's roadway improvement project along Tanque Verde Road between Catalina Highway and Houghton Road.
- 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.
- Prepared Environmental Information Documentation (EID) and facilitated Environmental Protection Agency (EPA) review in accordance with Environmental Review Guide for Special Appropriations Grants for Pomerene Domestic Water Improvement District Drinking Water Quality Improvement Project.

Education:

- MS, Environmental Engineering, University of Arizona
- BS, Civil Engineering, University of Arizona

Registration / Certification:

- Arizona #66736, 2018

Special Expertise:

- Water System Hydraulic Modeling
- Water Pumping Facility Design and Permitting
- Well Design and Permitting
- Water and Wastewater Treatment
- Hazardous Wastes
- Preliminary Engineering Report & Grant Application Preparation
- Phase I Environmental Site Assessments (ESAs)
- Bentley WaterCAD
- AutoCAD Civil 3D

Background:

Mr. Patrick Mette is a Civil and Environmental Engineer with experience in water system design, research, water treatment, construction inspections, Phase I ESAs, and non-profit engineering in developing communities. Mr. Mette performed as a field inspector for the Arizona Department of Transportation on several construction projects as an intern. He also worked as an undergraduate and graduate researcher at the University of Arizona for three years working on reverse osmosis, ion exchange, and solar membrane distillation projects in the lab and in the field, providing operation, analysis, design, and construction services. Mr. Mette spent nearly a year in the Andes Mountains of Bolivia working on rural water projects and providing training to Bolivian engineers on surveying, AutoCAD, and hydraulic modeling. While in school, Mr. Mette's coursework included water treatment, wastewater treatment, and hazardous waste management.

Since joining WestLand, Mr. Mette has worked on numerous projects designing booster stations and wells, analyzing water systems, developing hydraulic models, preparing preliminary engineering reports (PER), and developing cost estimates. He has also prepared technical memorandums on subjects ranging from "sewer pipe product comparisons" to "water system project prioritization". Mr. Mette has been working on Phase I ESAs with WestLand since 2016.

Selected Experience:

Phase I Environmental Site Assessment's in Cochise County; El Dorado Benson, LLC. *Engineering Technician.* WestLand assessed 4 properties and prepared 3 Phase I Environmental Site Assessments (ESA's) for El Dorado Benson, LLC.

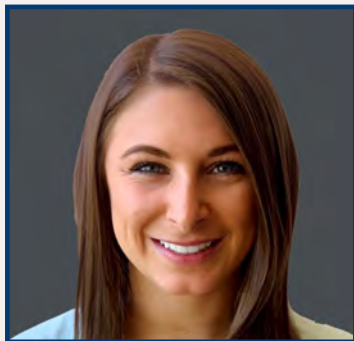
Phase I Environmental Site Assessment for Montanas del Sol Property; Freeport McMoRan Sierrita Inc. *Engineering Technician.* WestLand assessed and prepared a Phase I Environmental Site Assessment (ESA) for FMI.

Phase I Environmental Site Assessment for Superior Airport Contiguous Parcels; Resolution Copper. *Engineering Technician.* WestLand assessed and prepared a Phase I Environmental Site Assessment (ESA) for Resolution Copper for a series of properties in Superior, Arizona.

Phase I Environmental Site Assessment for the Fairview Cemetery; Resolution Copper. *Engineering Technician.* WestLand assessed and prepared a Phase I Environmental Site Assessment (ESA) for Resolution Copper for a cemetery property in Superior, Arizona.

New Well and Water Main, BECC Funded Project; Whetstone Water Improvement District. *Project Manager.* WestLand is working with the Whetstone Water Improvement District (WWID) and the Border Environment Cooperation Commission (BECC) to fund four projects within the WWID water system that WestLand designed in order to address problems of insufficient system redundancy, declining well capacity, and aging infrastructure. WestLand coordinated with BECC to obtain funding for the design of the previously mentioned projects and is now working to obtain funding for their construction.

SAMANTHA BLONDER, MS



Environmental Specialist

Experience: 4 Years

Education:

- MS, Environmental Science/Florida Gulf Coast University
- BS, Biology/University of South Florida

Registration /Certification:

- MSHA Certification

BACKGROUND:

Samantha Blonder is an Environmental Specialist with 4 years of experience gained while serving as a Research Assistant on projects for the Coastal Watershed Institute in Fort Myers, Florida, as an Argo Research Scientist for Heliae in Phoenix, Arizona, and as a Research Assistant-Team Lead while employed at Arizona State University. In 2016, Ms. Blonder served as a volunteer for Lead Adventures South America Galapagos Islands where she assisted in invasive species removal, cultural and environmental education outreach, and sustainable farming. In her role as an Environmental Specialist at WestLand, Ms. Blonder supports the environmental team working a wide variety of water focused projects with special expertise in: Endangered Species Act (ESA); National Environmental Policy Act (NEPA); Clean Water Act (CWA); Conservation Plans; Field Work; Data Collection and Data Entry; and Water Quality Collection and Analysis.

SELECTED EXPERIENCE:

Harquahala Valley Water Project Environmental Assessment. Environmental Specialist. WestLand Resources was hired by HVWP Management LLC to prepare an Environmental Assessment (EA) for the Harquahala Valley Water Project. The HVWP proposes to develop infrastructure required to pump groundwater from the Harquahala Irrigation Non-Expansion Area and to convey the pumped groundwater to the Central Arizona Project (CAP Canal). This project includes public scoping, an administrative draft of the EA, a draft EA for public comment, and a final EA.

Oro Valley Water Utility Northwest Recharge, Recovery and Delivery System (NWRDSD) Design. Environmental Specialist. The WestLand Resources and Carollo Engineering team was hired by the Town of Oro Valley for the design of the NWRDSD project. The team is providing design services for approximately 6-miles of transmission pipeline. Additionally, the team is designing the distribution main connections downstream of the proposed booster at Shannon into existing Oro Valley Water Utility distribution mains at Naranja and Tangerine Road.

Resolution Copper, LEX Phase I ESA Updates. Environmental Specialist. WestLand was contracted to conduct Phase I Environmental Site Assessments (ESAs) for a set of properties considered in the Resolution Project Land Exchange between Resolution Copper and two federal land management agencies. Work on this project includes environmental agency records review, interviews with persons familiar with the sites, site reconnaissance, and report preparation.