Kimley»Horn

July 31, 2015

K Hovnanian Homes
20830 N Tatum Blvd Suite 250
Phoenix, AZ 85050
Attn: Sam Griffin

Arizona State Land Department
1616 W. Adams
Phoenix, AZ 85007
Attn: Greg Novak

RE: ***Phase I Environmental Site Assessment – Approximately 92-Acre Subject Property Southwest Corner of 68th Street and Mayo Blvd. Phoenix, Maricopa County, Arizona***

Dear Mr. Griffin:

Kimley-Horn and Associates, Inc. (Kimley-Horn) was retained to conduct a Phase I Environmental Site Assessment (ESA) of the approximately 92-acre subject property located at the southwest corner of 68th Street and Mayo Blvd. (Parcel No. 215-04-700A) in Phoenix, Maricopa County, Arizona. This Phase I ESA was conducted in accordance with (1) the United States Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquiries {(AAI), 40 CFR Part 312} and (2) guidelines established by the American Society for Testing and Materials (ASTM) in the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process / Designation E 1527-13* (ASTM Standard Practice E 1527-13).

The Phase I ESA for the subject property represents the product of Kimley-Horn's professional expertise and judgment in the environmental consulting industry. This report is certified to, can be relied upon by, and has been prepared for the exclusive use of the following entities: Kimley-Horn, K Hovnanian Homes, the Arizona State Land Department (ASLD), and their respective successors, assigns, affiliates, and subsidiaries.

Current Recognized Environmental Conditions

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-13 of the approximately 92-acre subject property located at the southwest corner of 68th Street and Mayo Blvd. (Parcel No. 215-04-700A) in Phoenix, Maricopa County, Arizona. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. This assessment has revealed evidence of one (1) recognized environmental condition (REC) connected with the property.

- **Two 55-gallon drums were observed onsite and appeared to be associated with wildcat dumping, which is the improper and illegal disposal of solid waste, as truck tire tracks were visible adjacent to the drums. Each drum is rusty and has leaked what appears to be petroleum product (likely diesel fuel or oil based on odor and soil staining) on the adjacent soils. The soil staining appears to be local and the drums appear to still contain additional petroleum product. These drums and contaminated soil should be removed/remediated per all applicable federal, state and local rules and regulations.**

Historical Recognized Environmental Conditions

A historical REC (HREC), as defined in the ASTM Standard, is a past release of any hazardous substance and/or petroleum product that has been addressed to the satisfaction of the applicable

regulatory authority or meeting unrestricted use criteria. No known past releases were associated with the subject property. As such, Kimley-Horn has not identified any HRECs in association with the subject property.

Controlled Recognized Environmental Conditions

A controlled REC (CREC), as defined in the ASTM Standard, is a REC resulting from a past release of hazardous substances and/or petroleum products in which the regulatory agency has allowed contamination to remain in place at the property which is subject to the implementation of required controls and/or restrictive use. No known past releases were associated with the subject property. As such, Kimley-Horn has not identified any CRECs in association with the subject property.

With Kimley-Horn, you should expect more and will experience better. Please contact me at (602) 906-1187 or jennifer.tremayne@kimley-horn.com should you have any questions related to this report.

Sincerely,

Jennifer Tremayne
Senior Environmental Scientist

Report Issuance Date: 07/31/2015

Report Viability Date: 12/20/2015

SWC 68TH STREET AND MAYO BLVD.

APPROXIMATELY 92 ACRES
PARCEL NO. 215-04-700A
PHOENIX, MARICOPA COUNTY, ARIZONA

Phase I Environmental Site Assessment

Prepared for:

K Hovnanian Homes
20830 N Tatum Blvd Suite 250
Phoenix, AZ 85050

&

The Arizona State Land Department
1616 W. Adams Street
Phoenix, AZ 85007

Registered Professional Engineer (Civil)
CERTIFICATE NO.
37059
STEPHEN E.
HANEY
Date Signed 7/31/15
ARIZONA, U.S.A.
Exp. 12/31/16

Prepared By:

Kimley»Horn

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Table of Contents

Executive Summary iv

1.0 INTRODUCTION 1

1.1 Property Overview 1

1.2 Purpose and Scope of Services 1

1.3 Significant Assumptions 2

1.4 Limitations, Deviations, and Special Terms and Conditions 2

2.0 USER PROVIDED INFORMATION 2

2.1 Recorded Land Title Records 3

2.2 Reason for Performing this Phase I ESA 4

3.0 PHYSICAL SETTING 4

4.0 RECORDS REVIEW 5

4.1 Aerial Photographs and Sanborn Maps 6

4.2 Historical Topographic Maps 7

4.3 Local Street Directories 7

4.5 Building Department 7

4.6 Fire Department 7

4.7 Health Department 8

4.8 Utilities 8

4.9 Underground Storage Tank (UST) Systems 8

4.10 Previous Environmental Reports 8

4.11 Government Institutional and Engineering Controls 9

5.0 INTERVIEWS 9

6.0 SUMMARY OF HISTORICAL USE 12

7.0 SUBJECT PROPERTY RECONNAISSANCE 12

7.1 Subject Property Observations 12

8.0 ADJOINING PROPERTIES 14

9.0 REGULATORY RECORDS REVIEW 14
9.1 Subject Property and Occupant Listings 16
9.2 Adjoining and Nearby Sites 16
9.3 EDR Vapor Encroachment Screen 17
10.0 FINDINGS, OPINIONS AND CONCLUSIONS 17
10.1 Significant Data Gaps 17
10.2 Recognized Environmental Conditions 18
10.3 Historical Recognized Environmental Conditions 18
10.4 Controlled Recognized Environmental Conditions 18
11.0 SIGNATURE(S) OF ENVIRONMENTAL PROFESSIONAL(S) 19
12.0 REFERENCES 19

Figures

Figure 1: Vicinity Map

Figure 2: USGS *Currys Corner, Arizona* 7.5-Minute Quadrangle Map

Figure 3: Photo Location Map

Tables

Table 1: Table of Critical Dates

Table 2: Property Summary

Table 3: User Questionnaire Summary

Table 4: Physical Setting Summary

Table 5: Historical Record Review Summary

Table 6: Interview Summary

Table 7: Site Reconnaissance Summary

Table 8: Site Reconnaissance Observation Summary

Table 9: Environmental Database Summary

Appendices

Appendix A Site Photographs

Appendix B User Questionnaire

Appendix C USDA-NRCS Soil Survey

Appendix D EDR Certified Sanborn® Map Report

Appendix E EDR Aerial Photo Decade Package and Supplemental Aerial Photographs

Appendix F EDR Historical Topographic Map Report

Appendix G EDR City Directory Abstract

Appendix H Owner Questionnaire

Appendix I EDR Radius Map™ Report with GeoCheck®

Appendix J EDR Vapor Encroachment Screening Report

Appendix K Resumes

Executive Summary

Table 1: Table of Critical Dates

Milestone	Date
Report Issuance Date	07/31/2015
Date of Interview of Past and Present Owners and Occupants Identified in Section 10 of ASTM 1527-13	07/27/2015
Date of Recorded Environmental Cleanup Lien Search	06/23/2015
Date of Government Record Review	07/24/2015
Date of Visual Inspection of Subject and Adjoining Properties	07/28/2015
Earliest Date of Interviews, Lien Search, Record Reviews, and Inspections	06/23/2015
Report Viability Date	12/20/2015

Kimley-Horn and Associates, Inc. (Kimley-Horn) was retained to conduct a Phase I Environmental Site Assessment (ESA) of the approximately 92-acre subject property located at the southwest corner of 68th Street and Mayo Blvd. (Parcel No. 215-04-700A) in Phoenix, Maricopa County, Arizona. This Phase I ESA was conducted in accordance with (1) the United States Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquiries {(AAI), 40 CFR Part 312} and (2) guidelines established by the American Society for Testing and Materials (ASTM) in the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process / Designation E 1527-13* (ASTM Standard Practice E 1527-13).

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Reasonably ascertainable records reviewed as part of this Phase I ESA documented the use of the property back to 1949. Historic information prior to 1949 was not available. It is Kimley-Horn's opinion that this gap does not preclude our ability to reach conclusions regarding the subject property and adjacent properties. Kimley-Horn did not identify or encounter any instances of significant data gaps during the course of this ESA. Standard and other historical sources were able to document that the subject property was undeveloped native desert until approximately 2007 when a 300-foot wide mitigation corridor associated with the Paradise Ridge Section 404 permit was graded along the eastern property boundary. Culverts were installed in approximately 2010 under Mayo Blvd. connecting the onsite mitigation corridor to the corridor north of Mayo Blvd. The remainder of the site has remained undeveloped native desert with the exception of utilities located along the southern property boundary (sanitary sewer, telephone, electric and irrigation observed).

Current Recognized Environmental Conditions

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-13 of the approximately 92-acre subject property located at the southwest corner of 68th Street and Mayo Blvd. (Parcel No. 215-04-700A) in Phoenix, Maricopa County, Arizona. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. This assessment has revealed evidence of one (1) recognized environmental condition (REC) connected with the property.

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1.0 INTRODUCTION

This Phase I Environmental Site Assessment (ESA) was conducted in accordance with (1) the United States Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquiries {(AAI), 40 CFR Part 312} and (2) guidelines established by the American Society for Testing and Materials (ASTM) in the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process/Designation E 1527-13* (ASTM Standard Practice E 1527-13).

The Phase I ESA for the above referenced property represents the product of Kimley-Horn's professional expertise and judgment in the environmental consulting industry. This report is certified to, can be relied upon by, and has been prepared for the exclusive use of the following entities: Kimley-Horn, K Hovnanian Homes, the Arizona State Land Department (ASLD), and their respective successors, assigns, affiliates, and subsidiaries.

Kimley-Horn acknowledges that these parties may rely on the contents and conclusions presented in this report. Unless stated otherwise in writing, Kimley-Horn makes no other warranty, representation, or extension of reliance upon the findings of this report to any other entity or third party.

1.1 Property Overview

The subject property location is depicted on **Figure 1, Vicinity Map**. The property is located within Sections 27 and 34, Township 4 North, Range 4 East of the Gila and Salt River Baseline and Meridian. An excerpt from the United States Geological Survey (USGS) *Currys Corner, Arizona* 7.5-Minute Quadrangle Map is included as **Figure 2** and **Figure 3**, Photo Locations Map depicts the subject property and adjoining properties. Photographs taken during the site reconnaissance are included in **Appendix A**.

Table 2: Property Summary

Item	Comments
Subject Property Location/Address	The subject property is located at the southwest corner of 68th Street and Mayo Blvd. in Phoenix, Maricopa County, Arizona.
Number of Parcels and Acreage	1 parcel (Parcel No. 215-04-700A), ~92 acres
Number of Building(s) and Square Footage	None.
Current Property Use	Undeveloped native desert, with the exception of a 300-foot wide mitigation corridor associated with the Paradise Ridge Section 404 permit along the eastern property boundary, rip-rap associated with culverts under Mayo Blvd. that extend into the mitigation corridor, and utilities located along the southern property boundary (sanitary sewer, telephone, electric and irrigation observed).
Current Zoning	R1-18- Single-Family Residence District

1.2 Purpose and Scope of Services

The purpose of this Phase I ESA was to evaluate the current and historical conditions of the subject property in an effort to identify recognized environmental conditions (RECs) and historical recognized environmental conditions (HRECs) in connection with the subject property. This Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the subject property.

1.3 Significant Assumptions

Pursuant to ASTM Standard Practice E 1527-13, Kimley-Horn assumes that the information provided by all sources and parties, including the User, is accurate and complete, except where obvious inconsistencies or inaccuracies were identified.

1.4 Limitations, Deviations, and Special Terms and Conditions

There are no deviations from the ASTM Standard. Any physical limitations identified during the completion of this report are referenced in Section 7.0.

Due to changing environmental regulatory conditions and potential onsite or adjacent activities occurring after this assessment, the client may not presume the continuing applicability to the subject property of the conclusions in this assessment for more than 180 days after the earliest date of 1) interviews, 2) lien search, 3) record reviews, or 4) inspections, per ASTM Standard Practice E 1527-13.

2.0 USER PROVIDED INFORMATION

The ASTM Standard defines a User as "the party seeking to use Practice E 1527 to complete an environmental site assessment. A User may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager." The User has specific obligations for completing a successful application of this practice as outlined in Section 6 of the ASTM Standard Practice E 1527-13.

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfield's Revitalization Act of 2001 (the "Brownfield's Amendments") (if desired), the User must provide certain information (if available) identified in the User Questionnaire to the environmental professional. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.

The following responses were provided by the User. A copy of the completed User Questionnaire is included in **Appendix B**.

Table 3: User Questionnaire Summary

Question	Response
Name of Preparer and User Entity	Sam Griffin, K Hovnanian Homes, LLC
Are you aware of any environmental liens filed or recorded against the property under federal, tribal, state or local law?	No
Are you aware of any Activity and Use Limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?	No

Question	Response
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
Does the purchase price being paid for this property reasonably reflect the fair market value of the property?	Yes
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?	N/A
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:	No
Do you know the past uses of the property?	No
Do you know of specific chemicals that are present or once were present at the property?	No
Do you know of spills or other chemical releases that have taken place at the property?	No
Do you know of any environmental cleanups that have taken place at the property?	No
Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of releases at the property	None

2.1 Recorded Land Title Records

A 50-year chain of title review was not conducted by Kimley-Horn as the User did not provide Kimley-Horn with chain of title documents for the subject property. Standard and other historical sources were able to document that the subject property was undeveloped native desert until approximately 2007 when a 300-foot wide mitigation corridor associated with the Paradise Ridge Section 404 permit was graded along the eastern property boundary. Culverts were installed in approximately 2010 under Mayo Blvd. connecting the onsite mitigation corridor to the corridor north of Mayo Blvd. The remainder of the site has remained

undeveloped native desert with the exception utilities located along the southern property boundary (sanitary sewer, telephone, electric and irrigation observed).

An environmental lien search was performed by reviewing the title commitment with an amendment date of June 23, 2015 and no environmental liens were identified. A copy of the title commitment provided to the Environmental Professional is not included with this report, but could be provided upon request.

2.2 Reason for Performing this Phase I ESA

According to the User, this Phase I ESA was conducted as part of environmental due diligence related to purchasing the subject property. The User is proposing to develop the subject property.

3.0 PHYSICAL SETTING

The following is a concise summary of the physical and environmental setting of the subject property.

Table 4: Physical Setting Summary

Physical Setting Information For The Subject Property And Surrounding Area		Source
Topography: Refer to **Figure 2** for an excerpt of the Topographic Map		
Site Elevation	Ranges from approximately 1,575 feet above mean sea level (MSL) in the northeast corner to approximately 1,542 feet above MSL in the southwest corner of the subject property.	USGS 7.5-Minute Topographic Map of the *Currys Corner, Arizona* Quadrangle, 1982.
Topographic Gradient	South/southwest	
Closest Surface Water	~15 miles downstream to the Salt River	
General Soil Characteristics: Refer to **Appendix C** for a copy of the soil survey map and soil type descriptions		
Soil Type	Momoli gravelly sandy loam, 1 to 5 percent slopes and Gilman loams	Custom Soil Resource Report for Aguila-Carefree Area, Arizona, Parts of Maricopa and Pinal Counties, 2015.
Description	<u>Momoli gravelly sandy loam, 1 to 5 percent slopes</u> Elevation range: 1,400 to 2,200 feet Depth to restrictive feature: More than 80 inches Natural drainage class: Well drained Typical Profile: 0 to 3 inches: gravelly sandy loam; 3 to 60 inches: very gravelly sandy loam <u>Gilman loam</u> Elevation range: 1,100 to 2,200 feet Depth to restrictive feature: More than 80 inches Natural drainage class: Well drained Typical profile: *0 to 5 inches:* loam; *5 to 43 inches:* very fine sandy loam; *43 to 60 inches:* fine sandy loam The concrete corrosivity for Gilman loam is low and moderate for Momoli gravelly sandy loam, 1 to 5 percent slopes. The steel corrosivity for both soil types is moderate.	
Area Specific Geology/Hydrogeology Characteristics:		
Geology	<u>Holocene Surficial Deposits (0-10 ka)</u>	The Arizona

	Unconsolidated deposits associated with modern fluvial systems. This unit consists primarily of fine-grained, well-sorted sediment on alluvial plains, but also includes gravelly channel, terrace, and alluvial fan deposits on middle and upper piedmonts.	Geological Survey Geologic Map of Arizona, http://data.azgs.az.gov/geologic-map-of-arizona/#
Hydrogeology	The primary source of groundwater in the Phoenix Active Management Area (AMA) is basin-fill sediments. Three distinct water bearing units are identified in most of the sub-basins in the AMA: an upper alluvial unit, a middle fine-grained unit, and a lower conglomerate unit. Although conditions and circumstances vary across the AMA, most groundwater is pumped from the middle unit. Bedrock, consisting of metamorphic and igneous rock, underlies the basin-fill sediments and is not considered an aquifer. Groundwater occurs under generally unconfined conditions throughout most of the AMA. Depth to water ranges from just below land surface (bls) to more than 800 feet bls. East Salt River Valley (ESRV) Sub-basin The thickness of basin-fill sediments range from less than 100 feet near the basin margins to over 10,000 feet southeast of Gilbert. The primary source of groundwater (49%) is from the lower basin fill, with another 40% withdrawn from the middle basin fill and only 11% withdrawn from the upper basin fill. Information from the Arizona Department of Water Resources (ADWR) website was reviewed for water wells located within the vicinity of the Site. According to well registration records, groundwater exists at greater than 350 feet below ground surface. However, groundwater levels can fluctuate due to seasonal variations, groundwater withdrawal or injection and other factors.	Arizona Department of Water Resources, http://www.azwater.gov/AzDWR/StatewidePlanning/WaterAtlas/ActiveManagementAreas/PlanningAreaOverview/Hydrology.htm#eastsalt
Oil and Gas Wells:		
Current Oil and Gas Wells on Subject Property	None	Arizona Oil and Gas Conservation Commission, http://welldata.azogcc.az.gov/
Historical Oil and Gas Wells On Subject property	None	

4.0 RECORDS REVIEW

Kimley-Horn attempted to review reasonably ascertainable records to identify obvious uses of the subject property from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. However, reasonably ascertainable records reviewed as part of this Phase I ESA only

documented the use of the property back to 1949. Historic information prior to 1949 was not available. This constitutes a data failure, which is a type of data gap; however, the data gap is not considered significant because other information and/or personal experience did not raise reasonable concerns involving the data gap.

4.1 Aerial Photographs and Sanborn Maps

Kimley-Horn attempted to review reasonably ascertainable Sanborn Fire Insurance Maps for the subject property. Kimley-Horn requested a search for Sanborn Fire Insurance maps through EDR. According to EDR, no Sanborn Map coverage is available for the subject property (**Appendix D**).

Kimley-Horn reviewed reasonably ascertainable aerial photographs for the subject property area. The sources and years reviewed are identified in the table below. The EDR aerial photographs and supplemental aerial photographs are included in **Appendix E**.

The following table summarizes the sources reviewed and the information obtained about the subject property from these sources. Information obtained about the adjoining properties from these sources is summarized in Section 8.0.

Table 5: Historical Record Review Summary

Year and Source	Summary of Information
1949, EDR	Subject Property: Undeveloped, native desert. Adjacent Property: Undeveloped, native desert to the north, east, south and west.
1954, EDR	No discernable change from the 1949 aerial photograph.
1962, EDR	No discernable change from the 1954 aerial photograph.
1964, EDR	No discernable change from the 1962 aerial photograph.
1969, Maricopa County	No discernable change from the 1964 aerial photograph.
1979, EDR	Subject Property: Undeveloped, native desert. Adjacent Property: Undeveloped, native desert to the north, east, south and west. Agricultural land use (Chauncey Ranch) is visible approximately 500 feet east of the site at the southeast corner of the 68th Street and Mayo Blvd. alignments. These roads have not been constructed at this date. The Central Arizona Project (CAP) canal is visible approximately 0.5 miles south of the site.
1980, EDR	No discernable change from the 1979 aerial photograph.
1989, EDR	No discernable change from the 1980 aerial photograph.
1993, Maricopa County	No discernable change from the 1989 aerial photograph.
1997, Maricopa County	No discernable change from the 1993 aerial photograph.
1999, Maricopa County	Subject Property: Undeveloped, native desert. Adjacent Property: Mayo Blvd. is under construction north of the site.
2002, Maricopa County	No discernable change on the subject property or adjacent properties from the 1999 aerial photograph. Chauncey Ranch is being redeveloped into residential and commercial development approximately 500 feet east of the site. 68th Street is under construction on the western boundary of the construction. A City of Phoenix wastewater lift station is visible approximately 200 feet west of the site along the southern property boundary. This wastewater lift station is not considered

	a REC. What appears to be a dirt road is visible along the southern property boundary.
2006, Maricopa County	No discernable change on the subject property from the 2002 aerial photograph. Commercial development is visible at the northeast corner of 68th Street and Mayo Blvd.
2007, EDR	Subject Property: The 300-foot wide mitigation corridor associated with the Paradise Ridge Section 404 permit has been graded. The remainder of the property remains native desert. Adjacent Property: Land to the east of the site has been graded and is under construction.
2010, EDR	Subject Property: The mitigation corridor has been planted and culverts have been installed under Mayo Blvd. connecting to the mitigation corridor to the north. Adjacent Property: Residential development is visible east of the site, but appears to be still under construction.
2014, Google Earth Pro	Subject Property and adjacent property: No discernable change from the 2010 aerial photograph. Adjacent Property: Undeveloped, native desert. The 64th Street alignment has been graded approximately 400 feet west of the site.

4.2 Historical Topographic Maps

Kimley-Horn obtained historical USGS topographic maps for the subject property through EDR for 1906, 1964, 1973, and 1982 (**Appendix F**). The location of the subject property is not discernable on the 1906 map; therefore, it was not reviewed. No structures or improvements were visible on the subject property or adjacent properties on the remaining maps. No RECs were revealed by the review of historical topographic maps.

4.3 Local Street Directories

Kimley-Horn obtained a City Directory Abstract for the subject property through EDR (**Appendix G**). The only adjacent addresses available were 18017 N. 64th St. (adjacent to the west); and 18440 N. 68th St., 18220 N. 68th St., 17950 N. 68th St., 17850 N. 68th St. (adjacent to the east). Land adjacent to the north is owned by ASLD and does not have an address. Land to the south is owned by Bureau of Reclamation and does not have an address. No RECs were revealed by the City Directory Abstract.

4.4 Assessing Department

Kimley-Horn obtained parcel data for the property and adjacent properties (as available) from the Maricopa County Assessor's Office website. No other reasonably ascertainable assessment information provided by the Maricopa County Assessor's Office was obtained and reviewed.

4.5 Building Department

Kimley-Horn searched the City of Phoenix records and found no records for the subject property.

4.6 Fire Department

Kimley-Horn was not able to submit a records request to the Phoenix Fire Department since postal addresses are required and parcel numbers cannot be used in the search. It is Kimley-Horn's opinion that this does not preclude our ability to reach conclusions regarding the subject property and adjacent properties.

4.7 Health Department

Kimley-Horn utilized the online search of the Maricopa County Environmental Services Department database for public records for addresses along Mayo Blvd. in the vicinity of the property (5777 E Mayo Blvd. to 7000 E. Mayo Blvd.). No records of illegal dumping, hazardous waste spills or other environmental concerns for the subject property.

4.8 Utilities

The following is a summary of the utilities that service the subject Site.

4.8.1 MUNICIPAL WATER/WATER WELLS

Kimley-Horn reviewed the Arizona Department of Water Resources (ADWR) Well Registry website (ADWR 2015). No wells are located on the subject property or adjacent properties according to ADWR.

4.8.2 SANITARY SEWER/SEPTIC SYSTEM

Kimley-Horn reviewed the ALTA/ACSM Land Title Survey for the subject property. A sanitary sewer is located on the southern property boundary (running parallel with the property boundary), as well as under Mayo Blvd. north of the site (running parallel with Mayo Blvd.). The sanitary sewer does not represent a REC for the subject property.

4.8.3 HEAT SOURCE

The subject property is undeveloped with no buildings. No documentation of fuel oil use was identified during review of reasonably ascertainable records, and no visual evidence of fuel oil use was identified during the site reconnaissance. It is Kimley-Horn's opinion that this does not preclude our ability to reach conclusions regarding the subject property and adjacent properties. If a fuel oil Underground Storage Tank (UST) is discovered in the future and/or evidence of a release of historical fuel oil is identified, further evaluation may be necessary.

4.9 Underground Storage Tank (UST) Systems

Review of reasonably ascertainable standard and other historical sources and site observations have not identified the current and historical presence of USTs on the subject property. Specifically, no records of USTs were identified through review of reasonably ascertainable records and Kimley-Horn did not observe any evidence of USTs (i.e. fill ports, vent pipes, etc.) during the site reconnaissance. Additionally, the current owner indicated he had no knowledge of USTs associated with the subject property.

4.10 Previous Environmental Reports

Kimley-Horn was retained to conduct a Phase I ESA, and subsequently a Phase I ESA Update that was issued April 6, 2015 and is valid until September 14, 2015 for the approximately 49.6-acre subject property located at the northwest corner of Mayo Blvd. and 68th St. (Parcel No. 215-04-706A). This site is located north of the subject property beyond Mayo Blvd. The assessment has revealed no evidence of RECs, HRECs, or CRECs connected with the property.

4.11 Government Institutional and Engineering Controls

Kimley-Horn has not identified any record of environmental liens, activity and use limitations, or institutional controls or engineering controls associated with the subject property through review of reasonable ascertainable records.

Kimley-Horn searched Arizona Department of Environmental Quality's (ADEQ's) Remediation and Declaration of Environmental Use Restriction (DEUR) database using the subject property's street (Mayo Blvd.). DEURs, Voluntary Environmental Mitigation Use Restriction (VEMURs) or other use limitations were not identified.

5.0 INTERVIEWS

The objective of completing interviews with knowledgeable site contacts is to obtain information about the uses and physical characteristics of the property. In general, interviewees supported the information reviewed from other historical sources (i.e. aerial photos, city records, etc.).

Table 6: Interview Summary

Represents	Interviewed	Name and Title	Length of Time Associated with Subject Property	Comments
Current Property Owner	Yes, July 27, 2015	Bruce Campbell, Environmental Program Specialist	14 years	Mr. Campbell is the owner (ASLD) representative. He stated the following in the owner questionnaire: **1.** Name(s) of current and any previous occupant(s) or provide a tenant list. Response: ***None*** **2.** Please describe the current use(s) of the property or indicate uses on the tenant list. Response: ***None*** **3.** Please describe the past (historic) uses of the property, with approximate dates. Response: ***Vacant desert*** **4.** Has a previous Phase I ESA or other Environmental Investigation been done on the property? Please provide a copy of these previous studies. Response: ***Unknown*** He was not aware of any: industrial uses of subject or adjoining properties; agricultural/aquiculture uses; waste storage or disposal; equipment use, storage, or abandonment; hazardous materials; petroleum hydrocarbons; spills or releases of petroleum hydrocarbons or hazardous materials; PCBs; surface water issues; groundwater issues; wastewater issues; USTs/above ground storage tanks (ASTs); asbestos issues; septic tanks and leachfields; utility corridors; regulatory compliance; natural resource issues; legal or regulatory actions. The owner questionnaire is included in **Appendix H**
Former Property Owner	N/A			Former property owners were not interviewed for this Phase I ESA. Based on Kimley-Horn's research of historical records for the site, it was concluded that interviews with former property owners would be unlikely to provide information material to identifying RECs for

Represents	Interviewed	Name and Title	Length of Time Associated with Subject Property	Comments
				the subject property. Therefore, this is not considered a significant data gap.
Key Site Manager	N/A			N/A
Current Occupant(s)	N/A			The property is not occupied.
Former Occupant(s)	N/A			Undeveloped native desert, with the exception of a 300-foot wide mitigation corridor associated with the Paradise Ridge Section 404 permit along the eastern property boundary and rip-rap associated with culverts under Mayo Blvd. that extend into the mitigation corridor.
Owner of adjoining properties	Yes, July 27, 2015	Bruce Campbell, Environmental Program Specialist	14 Years	ASLD owns the land north and west of the property. See Mr. Campbell's response above regarding adjacent properties. Owners of adjoining properties to the east and south of the property were not interviewed for this Phase I ESA. Based on Kimley-Horn's research of historical records for the site, it was concluded that interviews with adjacent property owners would be unlikely to provide information material to identifying RECs for the subject property. Therefore, this is not considered a significant data gap.

6.0 SUMMARY OF HISTORICAL USE

Standard and other historical sources were able to document that the subject property was undeveloped native desert until approximately 2007 when a 300-foot wide mitigation corridor associated with the Paradise Ridge Section 404 permit was graded along the eastern property boundary. Culverts were installed in approximately 2010 under Mayo Blvd. connecting the onsite mitigation corridor to the corridor north of Mayo Blvd. The remainder of the site has remained undeveloped native desert with the exception of utilities located along the southern property boundary (sanitary sewer, telephone, electric and irrigation observed).

Land north of the site has remained undeveloped native desert with the exception of Mayo Blvd, which was constructed in approximately 1999. The previously mentioned culverts extend into the mitigation corridor north of Mayo Blvd. Based on field observations and the ALTA survey review, utilities are located within and along Mayo Blvd. north of the site (sanitary sewer and electrical provided by Arizona Public Service). Land east of the site was developed into residential use in approximately 2007. Land south and west of the site have remained undeveloped native desert, owned by the Bureau of Reclamation (Reach 11 south of the site) and ASLD (west of the site).

7.0 SUBJECT PROPERTY RECONNAISSANCE

The following section provides a summary of the site reconnaissance undertaken at the subject property.

Table 7: Site Reconnaissance Summary

Reconnaissance Information	
Kimley-Horn Field Personnel:	Jennifer Tremayne, Environmental Professional
Site Reconnaissance Date:	July 28, 2015
Weather Conditions:	Sunny skies, ~97 degrees
Escort:	Kimley-Horn was not escorted during the site reconnaissance
Limitations:	None

7.1 Subject Property Observations

The subject property is undeveloped native desert, with the exception of a 300-foot wide mitigation corridor associated with the Paradise Ridge Section 404 permit along the eastern property boundary, rip-rap associated with culverts under Mayo Blvd. that extend into the mitigation corridor, and utilities located along the southern property boundary (sanitary sewer, telephone, electric and irrigation observed). No other improvements were observed onsite. Based on field observations and the ALTA survey review, utilities are located within and along Mayo Blvd. north of the site (sanitary sewer and electrical provided by Arizona Public Service (APS)). Minor areas of debris (landscape debris, metal, tires, barbed wire, etc.) were observed onsite. These are *de minimus* conditions. Photographs taken during the site reconnaissance are included in **Appendix A**.

One (1) REC was observed during field reconnaissance.

- Two 55-gallon drums were observed onsite and appeared to be associated with wildcat dumping, which is the improper and illegal disposal of solid waste, as truck tire tracks were visible adjacent to the drums. Each drum is rusty and has leaked what appears to be petroleum product (likely

diesel fuel or oil based on odor and soil staining) on the adjacent soils. The soil staining appears to be local and the drums appear to still contain additional petroleum product.

Table 8: Site Reconnaissance Observation Summary

Category	Feature	Observed
Interior Equipment	Elevators	N/A
	Air Compressors	N/A
	Incinerators	N/A
	Waste Treatment Systems	N/A
	Presses/Stamping Equipment	N/A
	Press Pits	N/A
	Hydraulic Lifts or In-ground hoists	N/A
	Paint Booth	N/A
	Plating Tanks	N/A
	Lathes, Screw Machines, etc.	N/A
Aboveground Chemical or Other Waste Storage or Waste Streams	Aboveground Storage Tanks (ASTs)	No
	Drums, Barrels and/or Containers > 5 gallons	No
	Chip Hoppers	No
	Hazardous or Petroleum Waste Streams	No
Underground Chemical or Waste Storage, Drainage or Collection Systems	Underground Storage Tanks	No
	Fuel Dispensers	No
	Sumps or Cisterns	No
	Dry Wells	No
	Oil/Water Separators	No
	Floor Drains, Trench Drains, etc.	No
	Pipeline Markers	No
Exterior Observations	Stressed Vegetation	No
	Stained Soil or Pavement	Yes, associated with the previously mentioned 55-gallon drums that have leaked petroleum product.
	Pad or Pole Mounted Transformers and/or Capacitors	Yes, one pad mounted transformer serviced by APS, no leaks observed. It is APS' policy that in the event that there is a release from an APS device, APS will assume responsibility for testing the device as well as assessing any impacts caused by a release.
	Soil Piles of Unknown Origin	No
	Exterior Dumpsters with Staining	No
	Leachate or Other Waste Seeps	No
	Trash, Debris, and/or Other Waste Materials	Yes. Minor areas of debris (landscape debris, metal, tires, barbed wire, etc.) were observed onsite. These are *de minimus* conditions.
	Uncontrolled Dumping or Disposal Areas	No

Category	Feature	Observed
	Surface Water Discoloration, Sheen or Free Product	No
	Strong, Pungent or Noxious Odors	No
	Storm water retention or detention ponds	No
	Pits, Ponds, Lagoons	No

7.1.1: CURRENT OPERATIONS

There are no current operations onsite.

8.0 ADJOINING PROPERTIES

The following paragraphs provide information about the adjoining properties obtained during the site reconnaissance and through review of reasonably ascertainable information.

North Adjoining Properties

Undeveloped native desert is located beyond Mayo Blvd. with the exception of a 300-foot wide mitigation corridor associated with the Paradise Ridge Section 404 permit along the eastern property boundary and rip-rap associated with culverts under Mayo Blvd. that extend into the mitigation corridor.

East Adjoining Properties

Residential development lies east of the site.

South Adjoining Property

Undeveloped native desert lies to the south of the site.

West Adjoining Property

Undeveloped native desert lies to the west of the site.

9.0 REGULATORY RECORDS REVIEW

Kimley-Horn retained EDR to provide current regulatory database information compiled by a variety of federal and state regulatory agencies. A copy of the EDR database report is included in **Appendix I.**

Table 9: Environmental Database Summary

Type	Regulatory Agency Database	Approximate Minimum Search Distance (AMSD)	Number of Sites within AMSD
Federal	National Priority List (NPL) Sites	1 mile	0
Federal	Proposed NPL	1 mile	0
Federal	NPL Liens	Subject Property	0
Federal	Delisted National Priority List (DNPL) Sites	1 mile	0

Type	Regulatory Agency Database	Approximate Minimum Search Distance (AMSD)	Number of Sites within AMSD
Federal	Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) Sites	½ mile	0
Federal	Federal Facility	½ mile	0
Federal	CERCLIS No Further Remediation Action Planned (NFRAP) Sites	½ mile	0
Federal	Resource Conservation and Recovery Act (RCRA) Corrective Action Report (CORRACTS) Sites	1 mile	0
Federal	RCRA non-CORRACTS Treatment, Storage or Disposal (TSD) Sites	½ mile	0
Federal	RCRA Large Quantity Generators (LQG) Sites	¼ mile	0
Federal	RCRA Small Quantity Generators (SQG) Sites	¼ mile	0
Federal	RCRA Conditionally Exempt Small Quantity Generators (CESQG) Sites	¼ mile	0
Federal	US Eng Controls	½ mile	0
Federal	US Inst Control	½ mile	0
Federal	LUCIS	½ mile	0
Federal	Environmental Response and Notification System (ERNS)	Subject Property	0
State & Tribal	AZ WQARF	1 mile	0
State & Tribal	AZ NPL	1 mile	0
State & Tribal	SPL	1 mile	0
State & Tribal	SHWS	1 mile	0
State & Tribal	Solid Waste Facilities/ Landfill Sites (SWF/LF)	½ mile	0
State & Tribal	LUST	½ mile	0
State & Tribal	Indian LUST	½ mile	0
State & Tribal	Registered Underground Storage Tank (UST)	¼ mile	0
State & Tribal	AST	¼ mile	0
State & Tribal	Indian UST	¼ mile	0
State & Tribal	FEMA UST	¼ mile	0
State & Tribal	AUL	½ mile	0
State & Tribal	AZURITE	½ mile	0
State & Tribal	Indian Voluntary Cleanup Program (VCP)	½ mile	0
State & Tribal	VCP	½ mile	0
State & Tribal	Brownfields	½ mile	0
Local	US Brownfields	½ mile	0
Local	Debris Region 9	½ mile	0
Local	ODI	½ mile	0
Local	SWTIRE	½ mile	0
Local	Indian ODI	½ mile	0
Local	US CDL	Subject Property	0
Local	CDL	Subject Property	0
Local	US Hist CDL	Subject Property	0
Local	Land Records (Liens 2)	Subject Property	0
Other	HMIRS	Subject Property	0
Other	SPILLS	Subject Property	0
Other	SPILLS 90	Subject Property	0
Other	RCRA NonGen/NLR	¼ mile	0
Other	DOT OPS	Subject Property	0
Other	DOD	1 mile	0
Other	FUDS	1 mile	0
Other	CONSENT	1 mile	0
Other	Record Of Decision (ROD)	1 mile	0
Other	UMTRA	½ mile	0

Type	Regulatory Agency Database	Approximate Minimum Search Distance (AMSD)	Number of Sites within AMSD
Other	US Mines	¼ mile	0
Other	TRIS	Subject Property	0
Other	TSCA	Subject Property	0
Other	FTTS	Subject Property	0
Other	HIST FTTS	Subject Property	0
Other	SSTS	Subject Property	0
Other	ICIS	Subject Property	0
Other	PADS	Subject Property	0
Other	MLTS	Subject Property	0
Other	RADINFO	Subject Property	0
Other	FINDS	Subject Property	0
Other	RAATS	Subject Property	0
Other	RMP	Subject Property	0
Other	UIC	Subject Property	0
Other	MANIFEST	¼ mile	0
Other	Drycleaners	¼ mile	0
Other	AZ DOD	½ mile	0
Other	Dry Wells	Subject Property	0
Other	WWFAC	½ mile	0
Other	Aquifer	Subject Property	0
Other	AIRS	Subject Property	0
Other	INDIAN RESERV	1 mile	0
Other	SCRD DRYCLEANERS	½ mile	0
Other	PRP	Subject Property	0
Other	LEAD SMELTERS	Subject Property	0
Other	EPA WATCH LIST	Subject Property	0
Other	Financial Assurance	Subject Property	0
Other	2020 COR ACTION	¼ mile	0
Other	PCB TRANSFORMER	Subject Property	0
Other	COAL ASH EPA	½ mile	0
Other	COAL ASH DOE	Subject Property	0
Other	US FIN ASSUR	Subject Property	0
Other	US AIRS	Subject Property	0
Other	EDR MGP	1 mile	0
Other	EDR US Hist Auto Stat	¼ mile	0
Other	EDR US Hist Cleaners	¼ mile	0
Other	RGA HWS	Subject Property	0
Other	RGA LF	Subject Property	0
Other	RGA LUST	Subject Property	0

9.1 Subject Property and Occupant Listings

The subject property was not identified in the referenced databases.

9.2 Adjoining and Nearby Sites

Kimley-Horn's review of the referenced databases also considered the potential or likelihood of contamination from adjoining and nearby sites. To evaluate which of the adjoining and nearby sites

identified in the regulatory database report present an environmental risk to the subject property, Kimley-Horn considered the following criteria:

- The type of database on which the adjoining/nearby property is identified.
- The topographic position of the property relative to the subject property.
- The direction and distance of the identified facility from the subject property.
- Local soil conditions in the subject property area.
- The known and/or inferred ground water flow direction in the subject property area.
- The status of the respective regulatory agency-required investigations and/or cleanup associated with the identified facility.
- Surface and subsurface obstructions and diversions (e.g., buildings, roads, sewer systems, utility service lines, rivers, lakes, and ditches) located between the identified site and the subject property.

Only those sites that are judged to present a potential environmental risk to the subject property and/or warrant additional clarification are further evaluated. Using the referenced criteria, and based upon a review of readily available information contained within the regulatory database report, Kimley-Horn did not identify adjoining (i.e., bordering) or nearby sites (e.g., properties within a ¼-mile radius) listed in the regulatory database report that were judged to present a potential environmental risk to the subject property.

The EDR report also identified two (2) orphan sites. Orphan sites are facilities that have inadequate address information to map; however, EDR provides limited reports generated for the orphan facilities. The orphan sites are not located within the ASTM search radii for their respective category; therefore, no further research was conducted for these facilities.

9.3 EDR Vapor Encroachment Screen

Kimley-Horn prepared a Vapor Encroachment Screen using EDR's Vapor Encroachment Worksheet. All facilities were eliminated by the screening process from further review based on topographic gradient, distance from the property and/or groundwater depth. In addition, the reasonable ascertainable information reviewed during the completion of this Phase I ESA does not suggest any current and/or historical uses would negatively impact soil vapor quality at the Site. As such, potentially contaminated soil vapors are not likely to exist at the subject Site. The EDR Vapor Encroachment Screening Report is included in **Appendix J**.

10.0 Findings, Opinions and Conclusions

10.1 Significant Data Gaps

Data gaps were encountered during the preparation of this Phase I ESA and are listed below. However, no significant data gaps which impacted Kimley-Horn's ability to identify RECs for the subject property were identified during the preparation of this Phase I ESA report:

- Historical aerial photographs and topographic maps were not readily available for review in five-year intervals.

- Site owners for land adjacent to the property to the east and south were not interviewed for this Phase I ESA.

- Kimley-Horn attempted to review reasonably ascertainable records to identify obvious uses of the subject property from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. However, reasonably ascertainable records reviewed as part of this Phase I ESA only documented the use of the property back to 1949. Historic information prior to 1949 was not available.

It is Kimley-Horn's opinion that these gaps do not preclude our ability to reach conclusions regarding the subject property and adjacent properties. Kimley-Horn did not identify or encounter any instances of significant data gaps during the course of this ESA.

10.2 Recognized Environmental Conditions

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-13 of the approximately 92-acre subject property located at the southwest corner of 68th Street and Mayo Blvd. (Parcel No. 215-04-700A) in Phoenix, Maricopa County, Arizona. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. This assessment has revealed evidence of one (1) REC connected with the property.

- Two 55-gallon drums were observed onsite and appeared to be associated with wildcat dumping, which is the improper and illegal disposal of solid waste, as truck tire tracks were visible adjacent to the drums. Each drum is rusty and has leaked what appears to be petroleum product (likely diesel fuel or oil based on odor and soil staining) on the adjacent soils. The soil staining appears to be local and the drums appear to still contain additional petroleum product. These drums and contaminated soil should be removed/remediated per all applicable federal, state and local rules and regulations.

10.3 Historical Recognized Environmental Conditions

A HREC, as defined in the ASTM Standard, is an environmental condition that in the past would have been identified as a REC but has been adequately addressed and, therefore, no longer represents a REC. Kimley-horn has not identified any HRECs in association with the subject property.

10.4 Controlled Recognized Environmental Conditions

A CREC, as defined in the ASTM Standard, is a REC resulting from a past release of hazardous substances and/or petroleum products in which the regulatory agency has allowed contamination to remain in place at the property which is subject to the implementation of required controls and/or restrictive use. No known past releases were associated with the subject property. As such, Kimley-Horn has not identified any CRECs in association with the subject property.

11.0 SIGNATURE(S) OF ENVIRONMENTAL PROFESSIONAL(S)

We declare that, to the best of our professional knowledge and belief, we meet the definition of *Environmental professional* as defined in §312.10 of 40 CFR 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquires in conformance with the standards and practices set forth in 40 CFR Part 312.

Jennifer Tremayne, REP

Karina Fidler, AICP, CPESC

12.0 REFERENCES

The following published sources were utilized during completion of this Phase I ESA:

Arizona Department of Environmental Quality Declaration of Environmental Use Restriction (DEURs) database, http://www.azdeq.gov/databases/deursearch.html

Arizona Department of Water Resources, https://gisweb.azwater.gov/WellRegistry/Default.aspx

Arizona Geological Survey, Geologic Map of Arizona, http://data.azgs.az.gov/geologic-map-of-arizona/#

Arizona Oil and Gas Conservation Commission, http://welldata.azogcc.az.gov/

ASTM Standard E 1527-13, 2013, "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," ASTM International, West Conshohocken, PA, 2013, www.astm.org.

City of Phoenix, https://apps-secure.phoenix.gov/PDD/Search/Permits

Environmental Data Resources (EDR), Inc., Certified Sanborn® Map Report, EDR Radius Map™ with Geocheck®, EDR Historical Topographic Map Report, and EDR City Directory Abstract

Google Earth Pro. “SWC 68th Street and Mayo Blvd.”. 33.651869/-111.938570. March 15, 2015. July 27, 2015.

Maricopa County Assessor’s Office, http://maps.mcassessor.maricopa.gov/

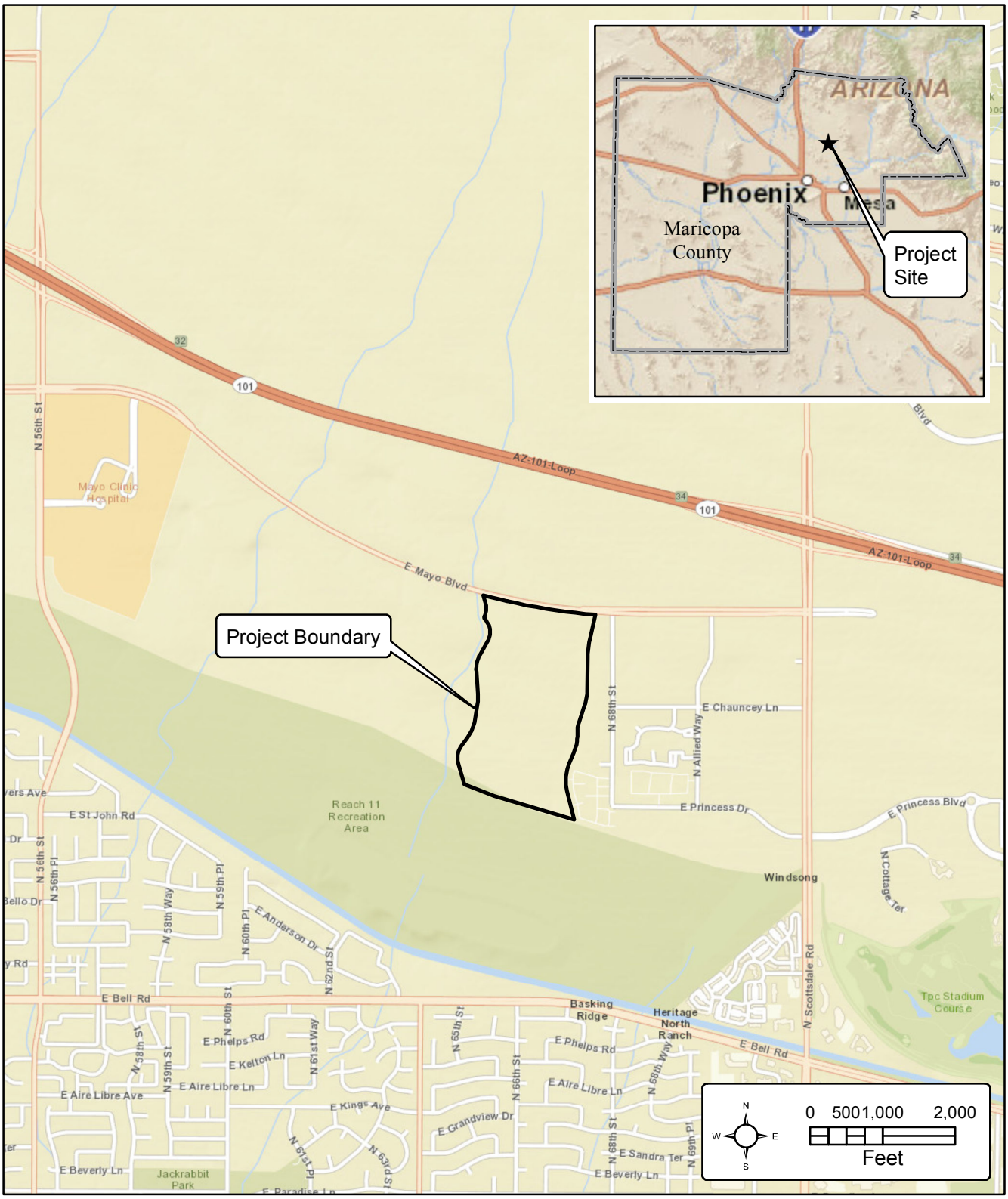
Maricopa County Environmental Services Department, https://aca.maricopa.gov/CitizenAccessMCESD/

United States Department of Agriculture, *Custom Soil Resource Report Aguila-Carefree Area, Arizona, Parts of Maricopa and Pinal Counties*, 2015

United States Geological Survey Division (U.S.G.S.) 7.5 Minute Topographic Map, *Currys Corner, Arizona, 1982*

FIGURE 1

Vicinity Map



Kimley»Horn
7740 N. 16th Street, Suite 300
Phoenix, Arizona 85020
Phone: (602) 944-5500
Fax: (602) 906-1128

Vicinity Map

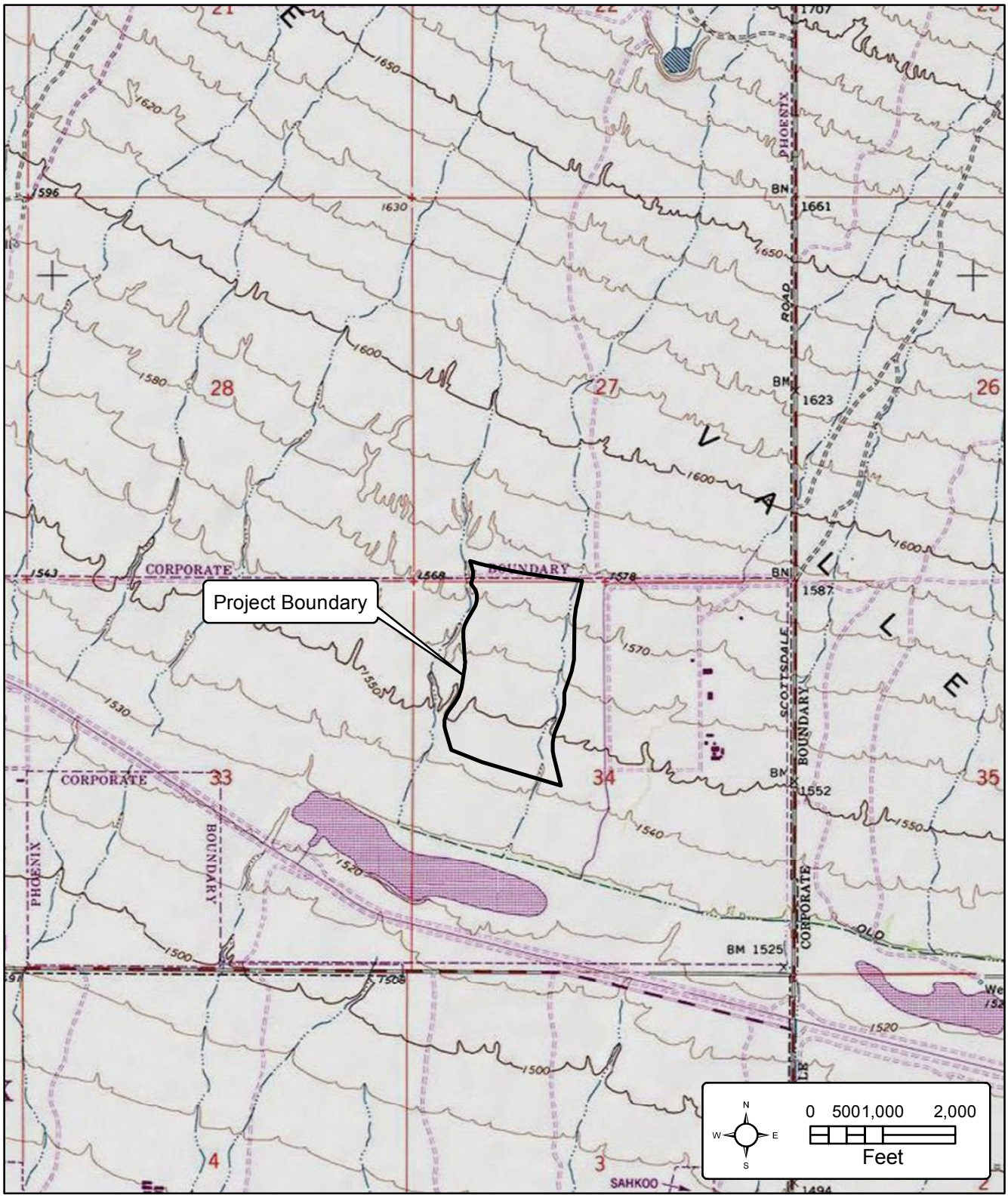
SWC 68th Street and Mayo Blvd.
Phase I Environmental Site Assessment
Phoenix, Maricopa County, Arizona

Project No. 191948000

Figure 1

FIGURE 2

USGS *Currys Corner, Arizona* 7.5-Minute Quadrangle Map



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Fax: (602) 906-1128

7.5 Minute USGS Quadrangle Map *(Currys Corner AZ)*

SWC 68th Street and Mayo Blvd.
Phase I Environmental Site Assessment
Phoenix, Maricopa County, Arizona

Project No.191948000

Figure 2

FIGURE 3

Photo Location Map

Aerial Source: City of Phoenix, 2013

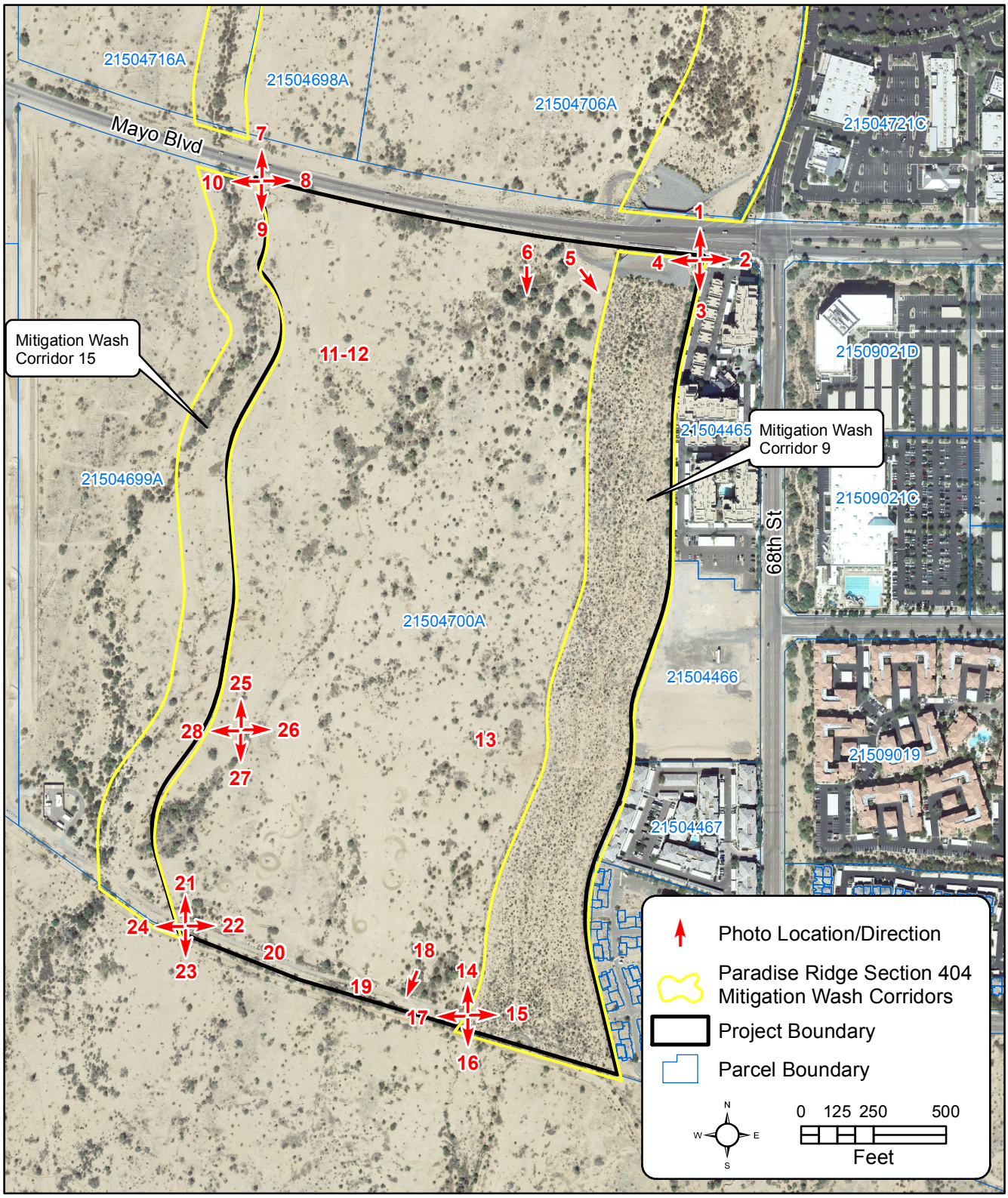

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Photo Locations Map

SWC 68th Street and Mayo Blvd.
Phase I Environmental Site Assessment
Phoenix, Maricopa County, Arizona

Project No.191948000

Figure 3

APPENDIX A

Site Photographs

Photo No. 1

View near the northeast corner of the site looking north across Mayo Blvd.

Photo No. 2

View near the northeast corner of the site looking east along Mayo Blvd.

Photo No. 3

View near the northeast corner of the site looking south toward the mitigation corridor. Note residential development east of the site.

Photo No. 4

View near the northeast corner of the site looking west along Mayo Blvd.

Photo No. 5

View from northwest of the mitigation corridor looking southeast towards the corridor. Note residential development beyond the corridor to the east of the site.

Photo No. 6

View of homeless camp onsite.

Photo No. 7

View from the northwest corner of the site looking north toward Mayo Blvd.

Photo No. 8

View from the northwest corner of the site looking east along Mayo Blvd.

Photo No. 9

View from the northwest corner of the site looking south.

Photo No. 10

View from the northwest corner of the site looking west.

Photo No. 11

View of two 55-gallon drums observed onsite. Note stained soil from petroleum product adjacent to both drums. Petroleum odor also noted (REC).

Photo No. 12

Closer view of 55-gallon drum that is rusty and has leaked petroleum product (REC).

Photo No. 13

View of burrow suitable for burrowing owls (typical).

Photo No. 14

View at the southwest corner of the mitigation corridor looking north along the cutoff wall of the corridor.

Photo No. 15

View at the southwest corner of the mitigation corridor looking east toward the corridor. Note residential development beyond the site to the east.

Photo No. 16

View at the southwest corner of the mitigation corridor looking south toward Reach 11 Recreation Area owned by the Bureau of Reclamation.

Photo No. 17

View at the southwest corner of the mitigation corridor looking west along the southern property boundary.

Photo No. 18

View of the sanitary sewer located along the southern property boundary.

Photo No. 19

View of a vandalized Qwest telephone riser observed along the southern property boundary.

Photo No. 20

View of an electrical box view along the southern property boundary.

Photo No. 21

View from the southwest corner of the site looking north.

Photo No. 22

View from the southwest corner of the site looking east.

Photo No. 23

View from the southwest corner of the site looking south toward Reach 11.

Photo No. 24

View from the southwest corner of the site looking west toward the City of Phoenix Water Department lift station west of the site.

Photo No. 25

View from the west-central portion of the site looking north.

Photo No. 26

View from the west-central portion of the site looking east.

Photo No. 27

View from the west-central portion of the site looking south.

Photo No. 28

View from the west-central portion of the site looking west toward western site boundary.

Photo No. 29

View of APS transformer located along the northern property boundary adjacent to Mayo Blvd. Note non-PCB written in white on transformer (source of writing unknown).

APPENDIX B

User Questionnaire

Kimley»Horn

ASTM E1527-13
USER QUESTIONNAIRE

Site Name:	AQUIA
Client Name:	KHONANIAN HOMES LLC
Client Contact and Phone Number:	SAM GRIFFIN 480-824-4242
Signature of Client:	
Date:	7/24/15

INTRODUCTION

In order to qualify for one of the *Landowner Liability Protections (LLPs)*[187] 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 liens that are filed or recorded against the *property* (40 CFR 312.25).

Are you aware of any environmental liens filed or recorded against the *property* under federal, tribal, state or local law?

NO

(2.) Activity and use limitations that are in place on the *property* or that have been filed or recorded against the *property* (40 CFR 312.26(a)(1)(v) and vi)).

Are you aware of any Activity and Use Limitations (AULs), such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the *property* and/or have been filed or recorded against the *property* 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).

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 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*?

YES

(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,

(a.) Do you know the past uses of the *property*?

NO

(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 or likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

Based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of releases at the *property*?

NONE

Landowner Liability Protections, or LLPs, is the term used to describe the three types of potential defenses to Superfund liability in EPA's Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser; Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability ("Common Elements" Guide) issued on March 6, 2003.

APPENDIX C

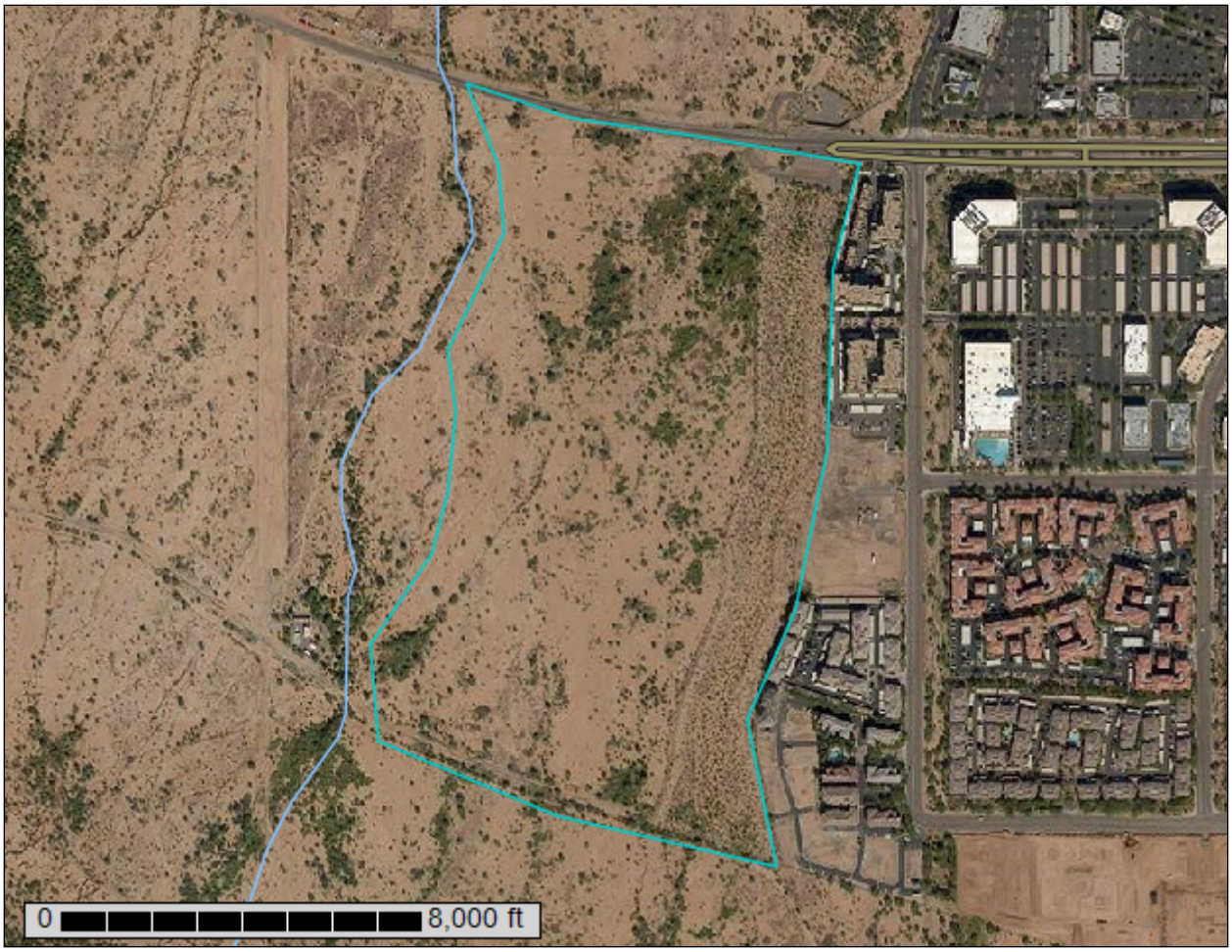
USDA-NRCS Soil Survey

United States Department of Agriculture

Natural Resources Conservation Service

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

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



July 23, 2015

Preface

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

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

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (http://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

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

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

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

Preface.....2
How Soil Surveys Are Made.....5
Soil Map.....7
Soil Map.....8
Legend.....9
Map Unit Legend.....10
Map Unit Descriptions.....10
Aguila-Carefree Area, Arizona, Parts of Maricopa and Pinal Counties.....12
55—Gilman loams.....12
90—Momoli gravelly sandy loam, 1 to 5 percent slopes.....13
References.....15

How Soil Surveys Are Made

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

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

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

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

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

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

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

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

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

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

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

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

Soil Map

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

Custom Soil Resource Report
Soil Map

Map Scale: 1:5,620 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 250 500 1000 1500

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

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

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

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

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

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

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

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

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

Soil Survey Area: Aguila-Carefree Area, Arizona, Parts of Maricopa and Pinal Counties
Survey Area Data: Version 9, Sep 14, 2014

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

Date(s) aerial images were photographed: Oct 31, 2014—Dec 7, 2014

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

Map Unit Legend

Aguila-Carefree Area, Arizona, Parts of Maricopa and Pinal Counties (AZ645)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
55	Gilman loams	94.2	99.1%
90	Momoli gravelly sandy loam, 1 to 5 percent slopes	0.9	0.9%
Totals for Area of Interest		**95.0**	**100.0%**

Map Unit Descriptions

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

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

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

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

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

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

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

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

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

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

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

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

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

55—Gilman loams

Map Unit Setting

National map unit symbol: 1s7n
Elevation: 1,100 to 2,200 feet
Mean annual precipitation: 7 to 10 inches
Mean annual air temperature: 70 to 73 degrees F
Frost-free period: 250 to 300 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Gilman and similar soils: 40 percent
Gilman and similar soils: 40 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Gilman

Setting

Landform: Flood plains, alluvial fans
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread, dip
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Mixed alluvium

Typical profile

A - 0 to 5 inches: loam
C1 - 5 to 43 inches: very fine sandy loam
C2 - 43 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 5 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: High (about 9.7 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: C
Ecological site: Loamy Upland 7-10" p.z. (R040XB213AZ)

Description of Gilman

Setting

Landform: Alluvial fans, flood plains
Landform position (two-dimensional): Summit

Landform position (three-dimensional): Tread, dip
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Mixed alluvium

Typical profile

A - 0 to 5 inches: loam
C1 - 5 to 43 inches: very fine sandy loam
C2 - 43 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 5 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: High (about 9.7 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: C
Ecological site: Limy Fan 3-7" p.z. (R040XC306AZ)

90—Momoli gravelly sandy loam, 1 to 5 percent slopes

Map Unit Setting

National map unit symbol: 1s9g
Elevation: 1,400 to 2,200 feet
Mean annual precipitation: 7 to 10 inches
Mean annual air temperature: 70 to 73 degrees F
Frost-free period: 250 to 300 days
Farmland classification: Not prime farmland

Map Unit Composition

Momoli and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Momoli

Setting

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

Parent material: Mixed alluvium

Typical profile

A - 0 to 3 inches: gravelly sandy loam
Bw - 3 to 60 inches: very gravelly sandy loam

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 5 percent
Salinity, maximum in profile: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Available water storage in profile: Low (about 4.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: Sandy Loam 7-10" p.z. Deep (R040XB221AZ)

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APPENDIX D

EDR Certified Sanborn® Map Report

SWC of 68th Street and Mayo Blvd.
SWC of 68th Street and Mayo Blvd
Phoenix, AZ 85054

Inquiry Number: 4363830.3
July 23, 2015

Certified Sanborn® Map Report

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

Certified Sanborn® Map Report

7/23/15

Site Name:
SWC of 68th Street and Mayo
SWC of 68th Street and Mayo
Phoenix, AZ 85054

Client Name:
Kimley-Horn & Associates Inc.
7878 North 16th Street
Phoenix, AZ 85020

EDR Inquiry # 4363830.3

Contact: Jennifer Tremayne

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Certified Sanborn Results:

Site Name: SWC of 68th Street and Mayo Blvd.
Address: SWC of 68th Street and Mayo Blvd
City, State, Zip: Phoenix, AZ 85054
Cross Street:
P.O. # NA
Project: 191948000
Certification # 5AAD-490E-9D52

UNMAPPED PROPERTY

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

Sanborn® Library search results
Certification # 5AAD-490E-9D52

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

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APPENDIX E

EDR Aerial Photo Decade Package and Supplemental Aerial Photographs

SWC of 68th Street and Mayo Blvd.

SWC of 68th Street and Mayo Blvd

Phoenix, AZ 85054

Inquiry Number: 4363830.9

July 24, 2015

The EDR Aerial Photo Decade Package

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

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography July 24, 2015

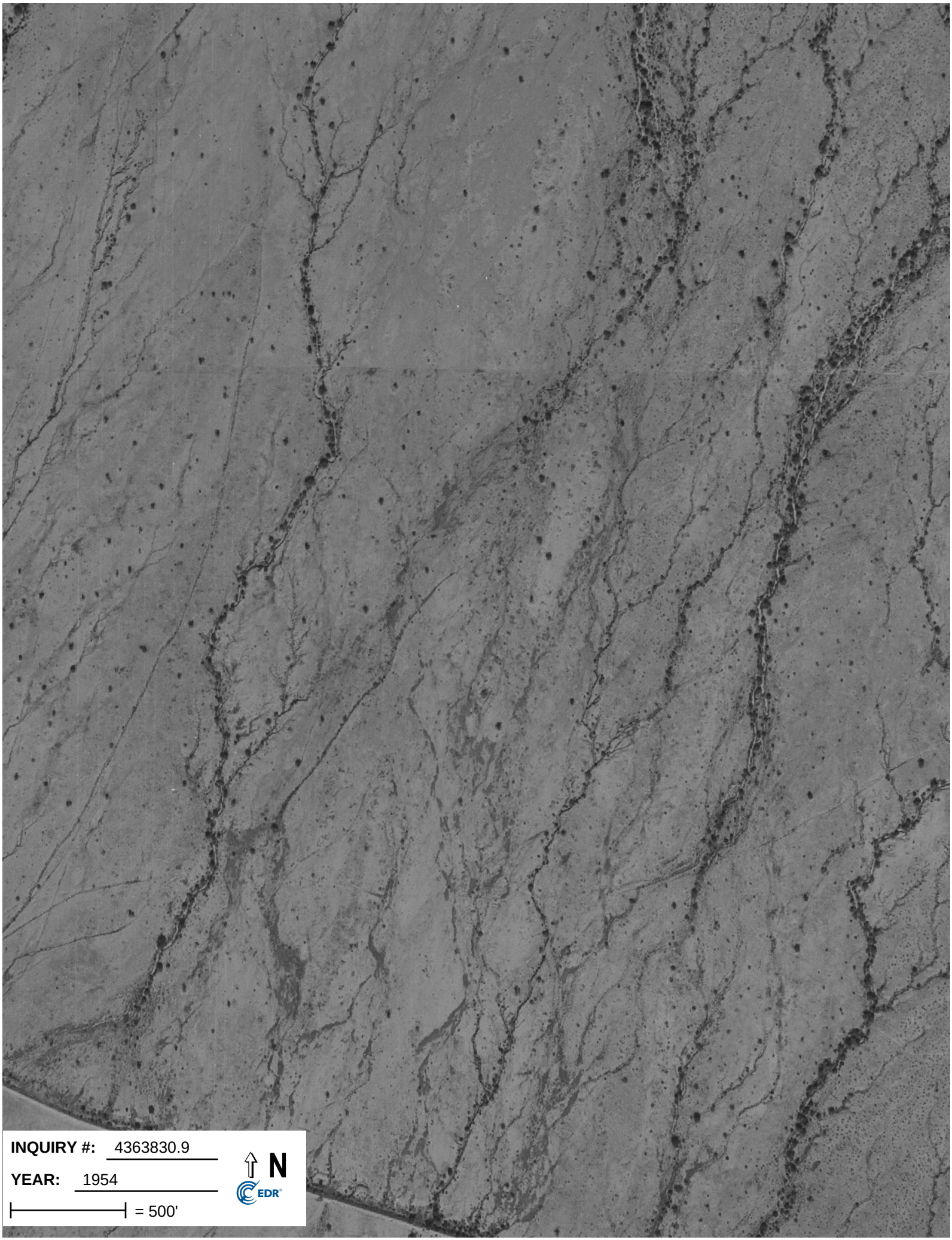
Target Property:

SWC of 68th Street and Mayo Blvd

Phoenix, AZ 85054

Year	***Scale***	***Details***	***Source***
1949	Aerial Photograph. Scale: 1"=500'	Flight Date: March 27, 1949	USGS
1954	Aerial Photograph. Scale: 1"=500'	Flight Date: January 26, 1954	USGS
1962	Aerial Photograph. Scale: 1"=500'	Flight Date: September 18, 1962	USGS
1964	Aerial Photograph. Scale: 1"=500'	Flight Date: January 24, 1964	USGS
1979	Aerial Photograph. Scale: 1"=500'	Flight Date: June 09, 1979	USGS
1980	Aerial Photograph. Scale: 1"=500'	Flight Date: June 02, 1980	USGS
1989	Aerial Photograph. Scale: 1"=500'	Flight Date: January 29, 1989	USDA
1997	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: April 30, 1997	USGS/DOQQ
2007	Aerial Photograph. Scale: 1"=500'	Flight Year: 2007	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP

INQUIRY #: 4363830.9
YEAR: 1949
= 500'
N
EDR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N
EDR

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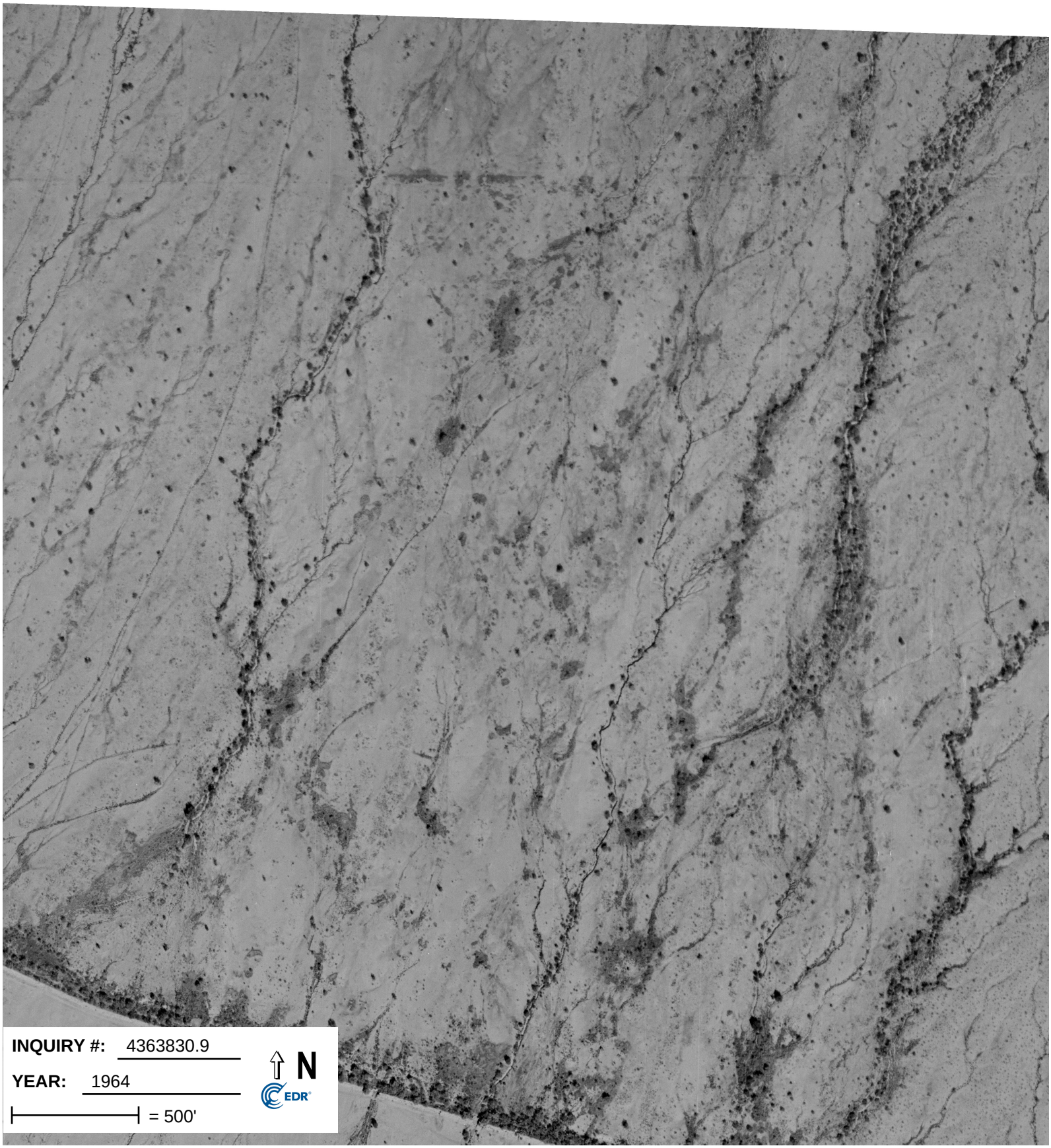
YEAR: 1962
= 500'
N
EDR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YEAR: 1964
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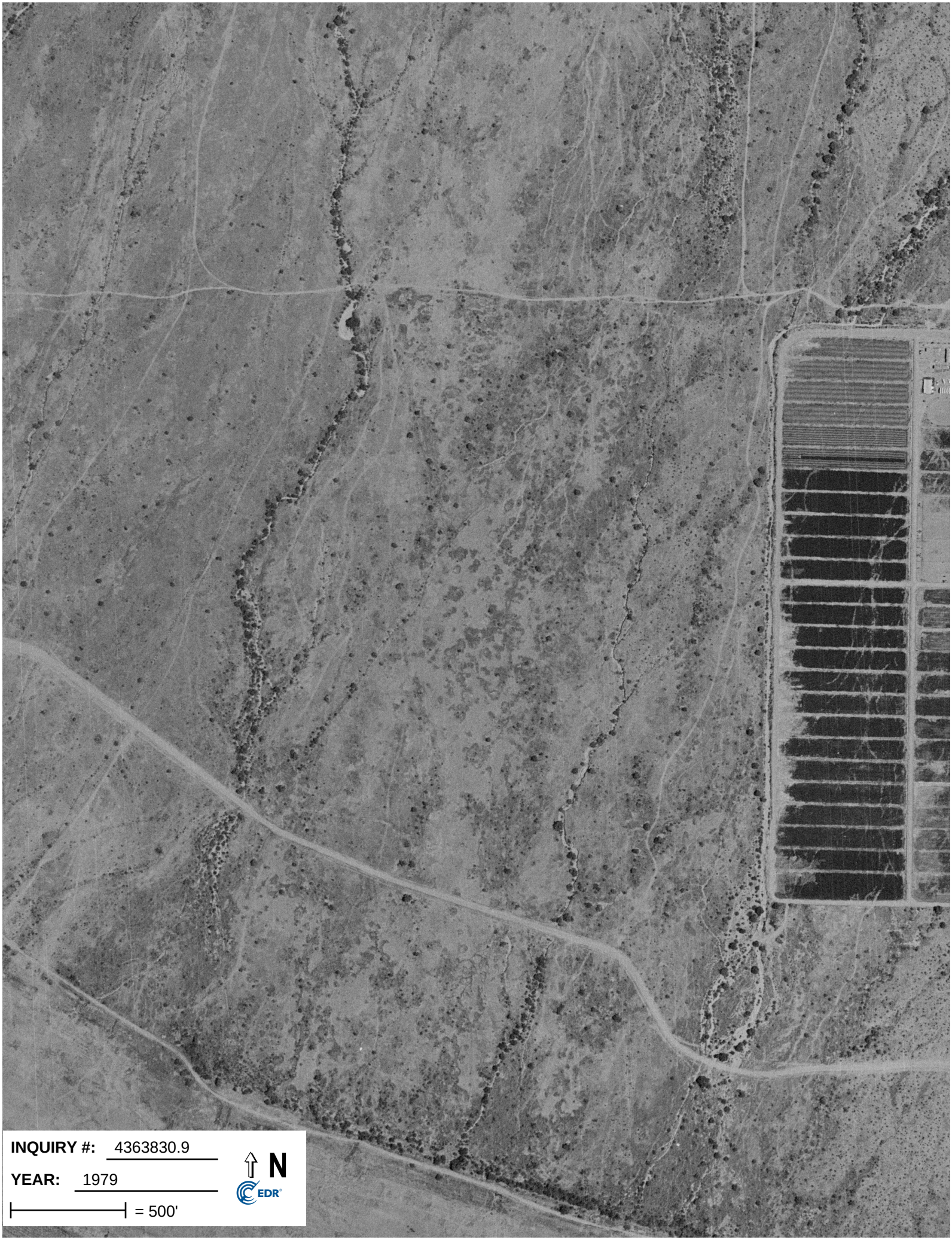
EDR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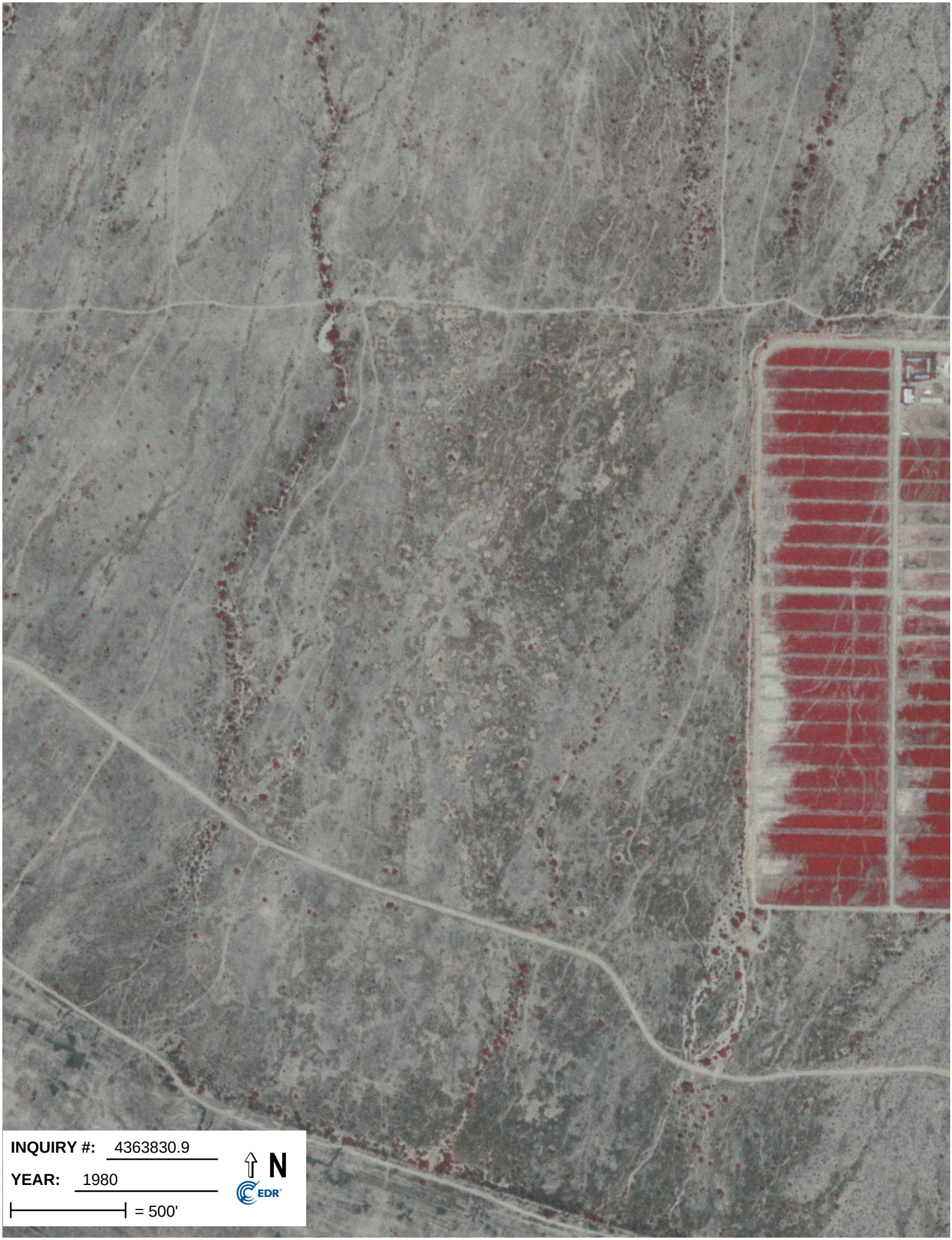
EDR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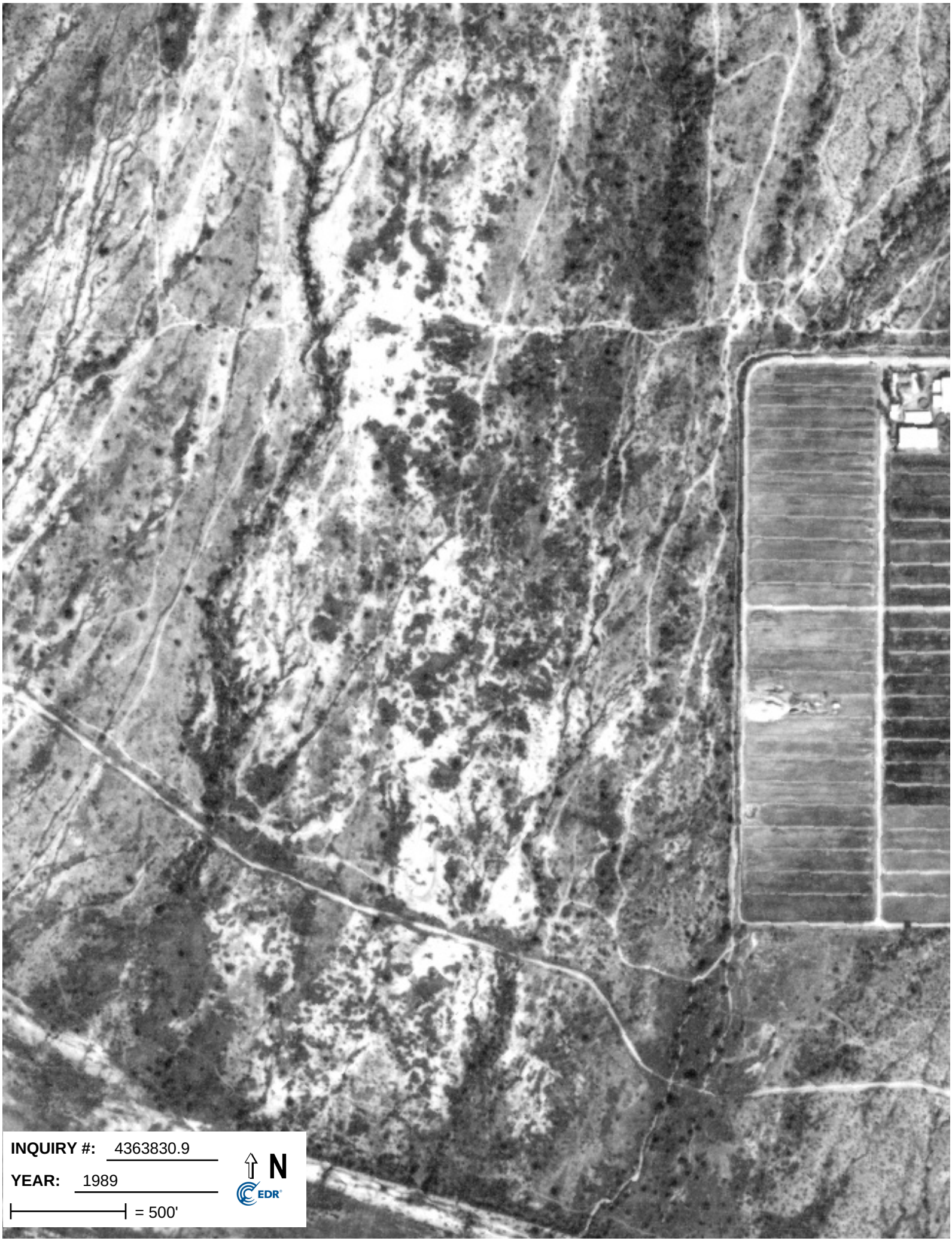
EDR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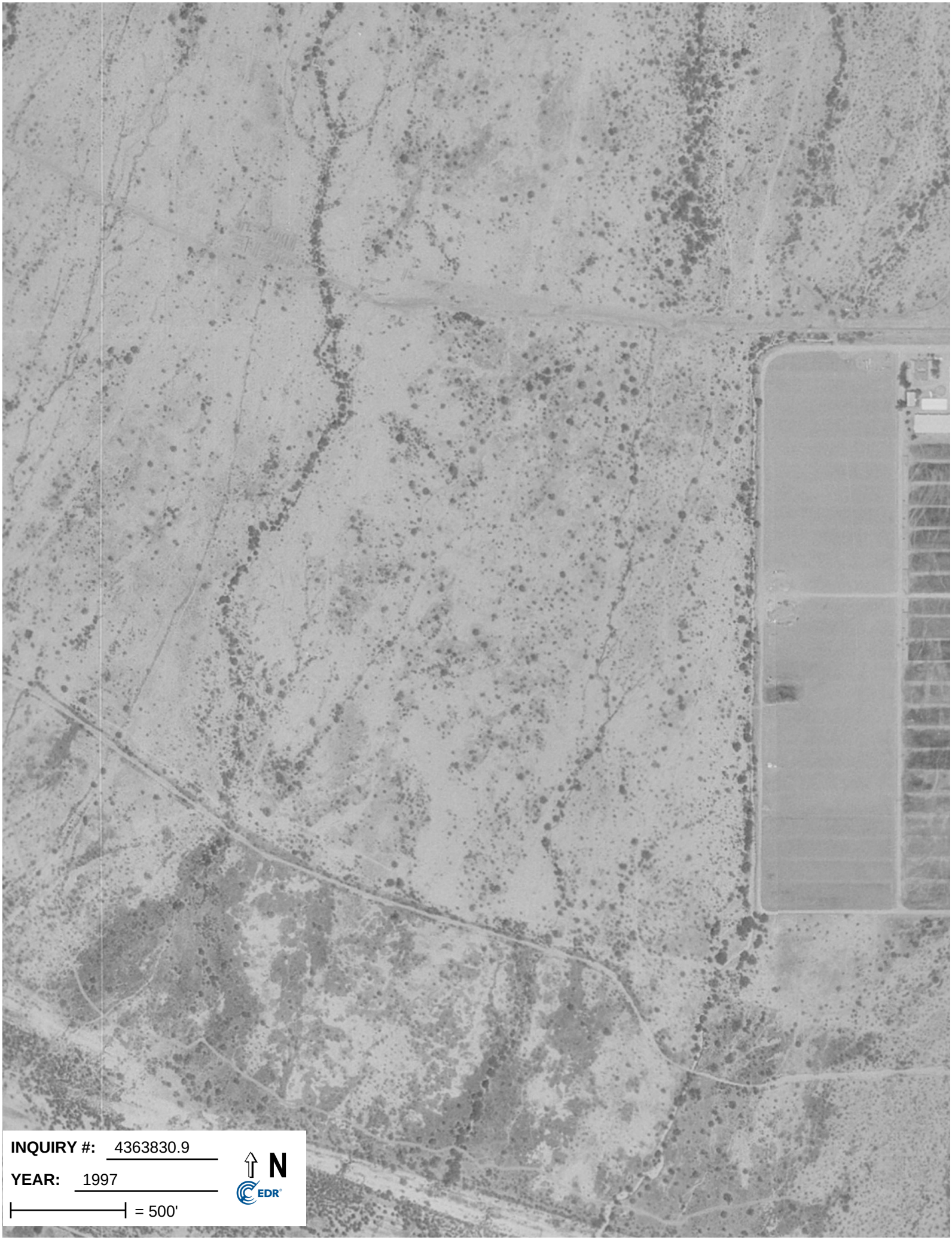
EDR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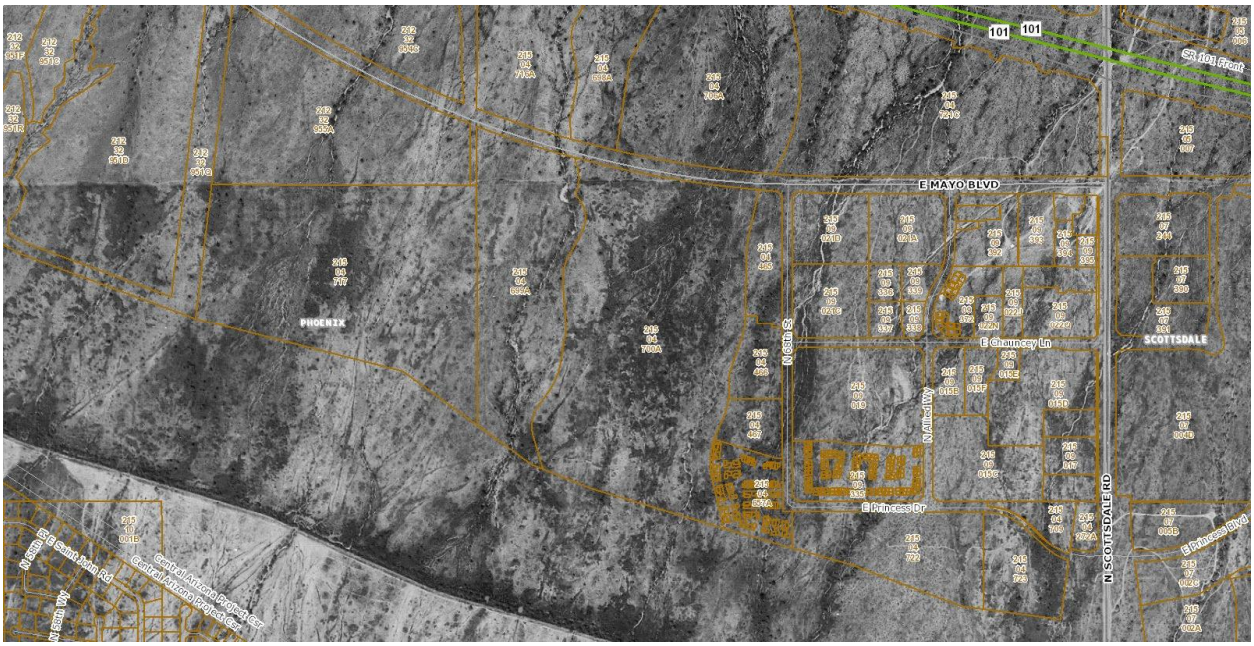
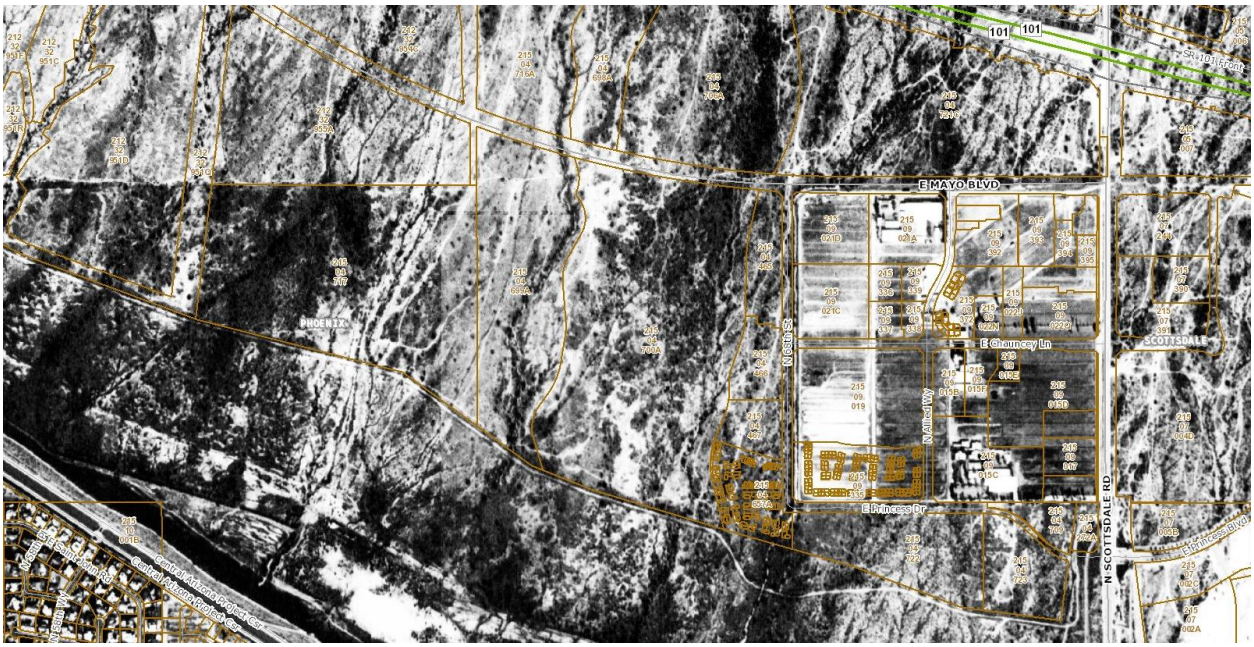
N
EDR

INQUIRY #: 4363830.9
YEAR: 2007
= 500'
N
EDR

INQUIRY #: 4363830.9
YEAR: 2010
= 500'
N
EDR


101
101
SR 101 Frontr
E MAYO BLVD
PHOENIX
N 68th St
N Allied Way
E Chauncey Ln
SCOTTSDALE
E Princess Dr
N SCOTTSDALE RD
E Princess Blvd
N 68th Pl
E Saint John Rd
N 68th Way
Central Arizona Project Ca
Central Arizona Project Ca

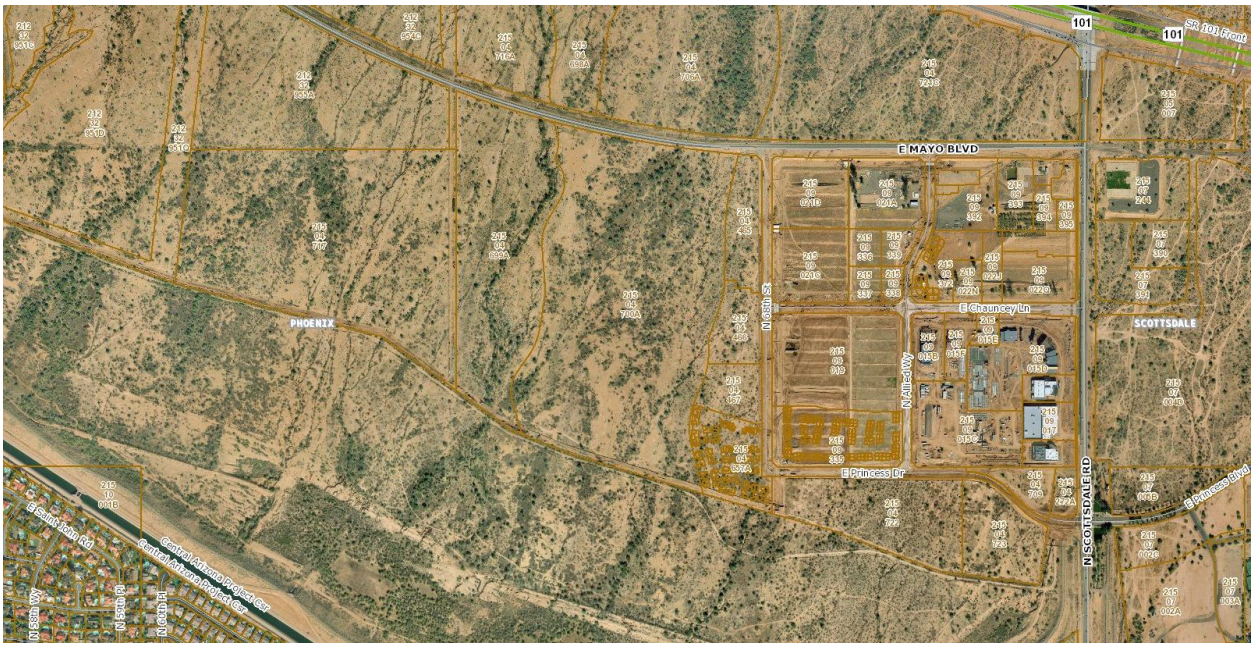
1969


101
101
SR 101 Frontr
E MAYO BLVD
PHOENIX
N 68th St
N Allied Way
E Chauncey Ln
SCOTTSDALE
E Princess Dr
N SCOTTSDALE RD
E Princess Blvd
N 68th Pl
E Saint John Rd
N 68th Way
Central Arizona Project Ca
Central Arizona Project Ca

1993

101
SR 101 Frontr
E MAYO BLVD
PHOENIX
SCOTTSDALE
E Chauncey Ln
N Allied Way
E Princess Dr
N SCOTTSDALE RD
E Princess Blvd
E Saint John Rd
Central Arizona Project Canal

1999


101
SR 101 Frontr
E MAYO BLVD
PHOENIX
SCOTTSDALE
E Chauncey Ln
N Allied Way
E Princess Dr
N SCOTTSDALE RD
E Princess Blvd
E Saint John Rd
Central Arizona Project Canal

2002

101
101
SR 101 Frontage
E MAYO BLVD
E Chauncey Ln
N Allred Way
N 64th St
E Princess Dr
N SCOTTSDALE RD
E Princess Blvd
PHOENIX
SCOTTSDALE
Central Arizona Project Cir
Central Arizona Project Cir
N 56th St
N 56th Wy

2006

APPENDIX F

EDR Historical Topographic Map Report

SWC of 68th Street and Mayo Blvd.
SWC of 68th Street and Mayo Blvd
Phoenix, AZ 85054

Inquiry Number: 4363830.4
July 24, 2015

EDR Historical Topographic Map Report

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

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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

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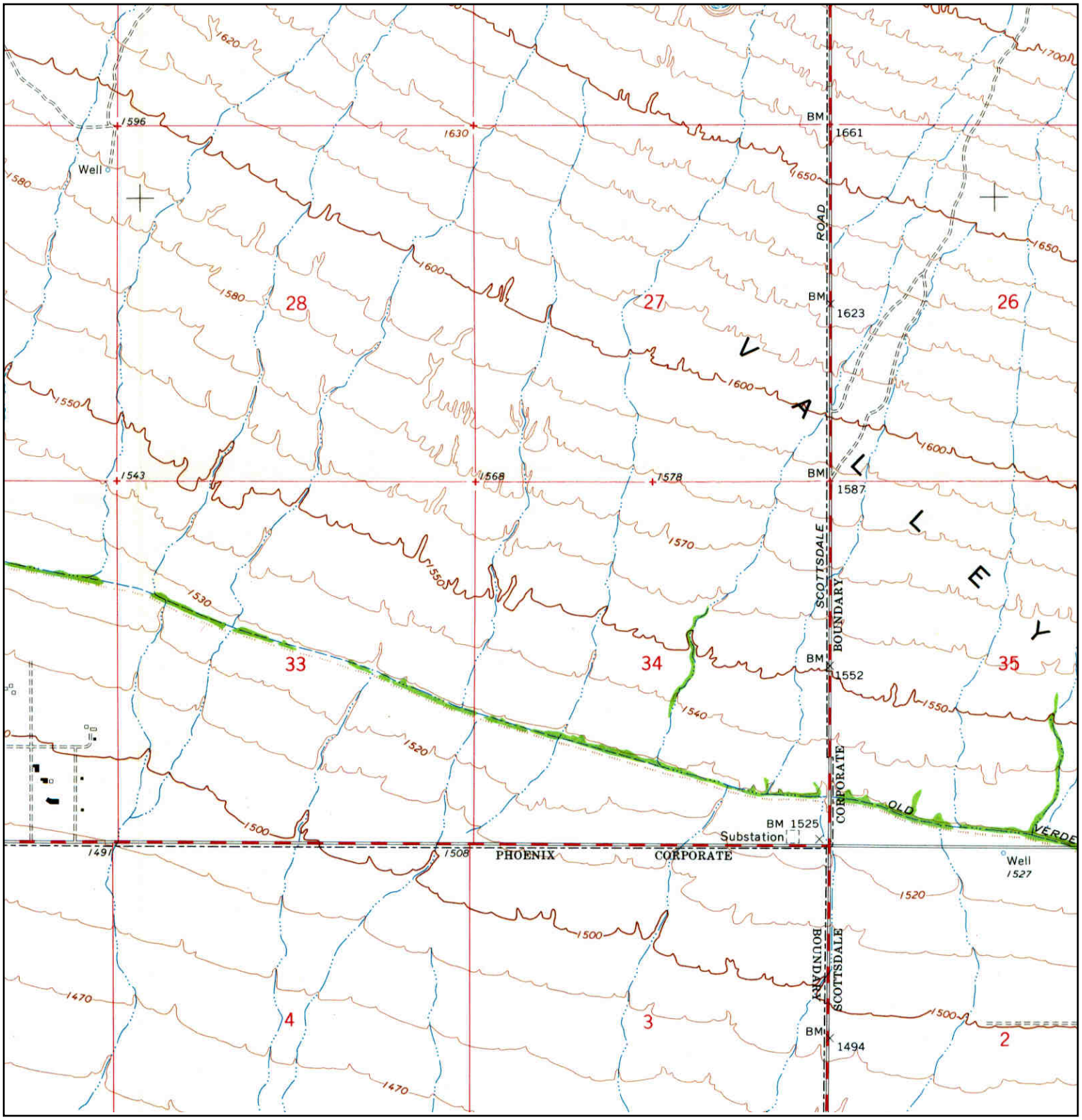
Historical Topographic Map

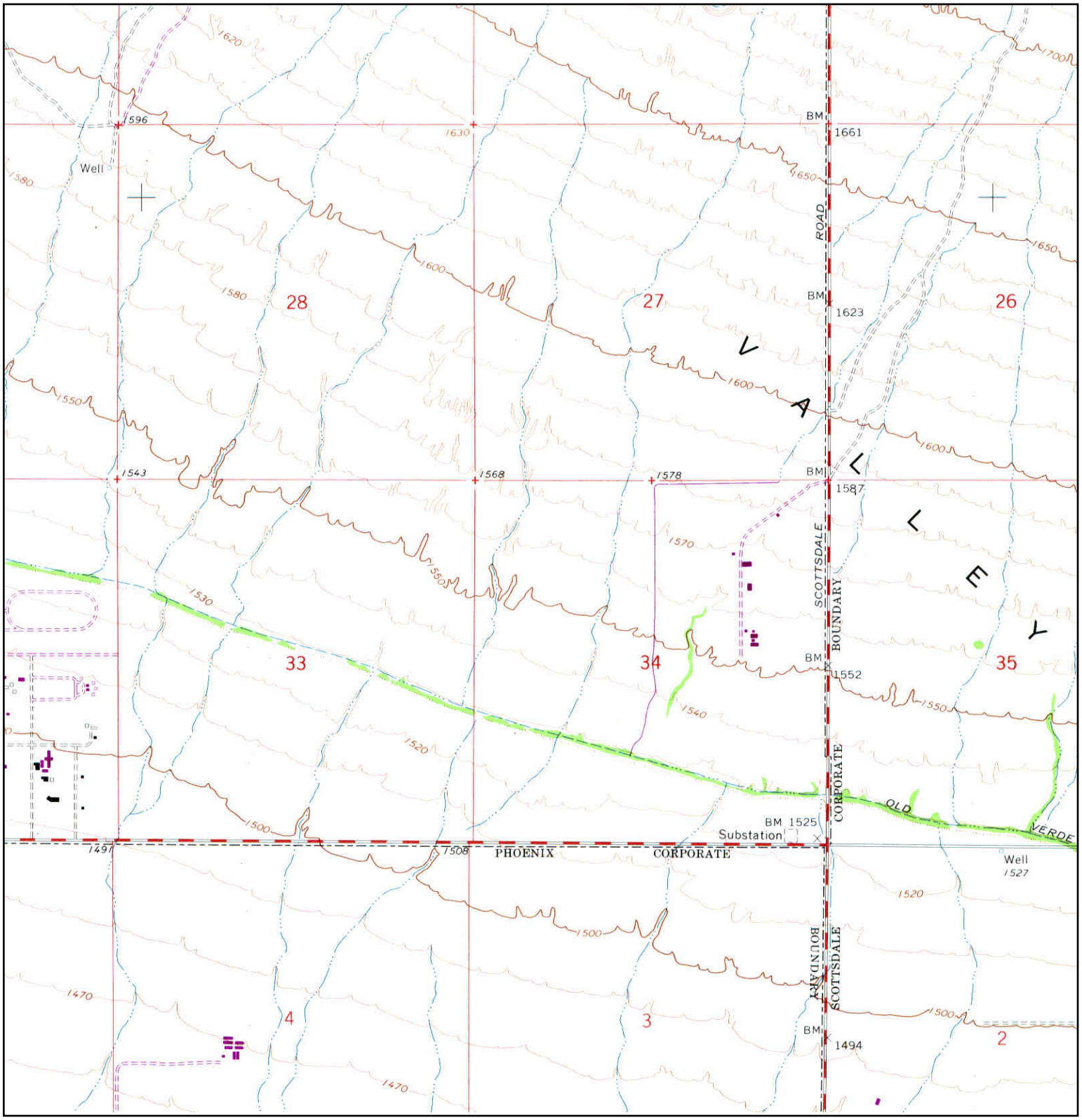
N	TARGET QUAD NAME: CAMELSBACK MAP YEAR: 1906 SERIES: 15 SCALE: 1:62500	SITE NAME: SWC of 68th Street and Mayo Blvd. ADDRESS: SWC of 68th Street and Mayo Blvd Phoenix, AZ 85054 LAT/LONG: 33.6519 / -111.9387	CLIENT: Kimley-Horn & Associates Inc. CONTACT: Jennifer Tremayne INQUIRY#: 4363830.4 RESEARCH DATE: 07/24/2015

Historical Topographic Map



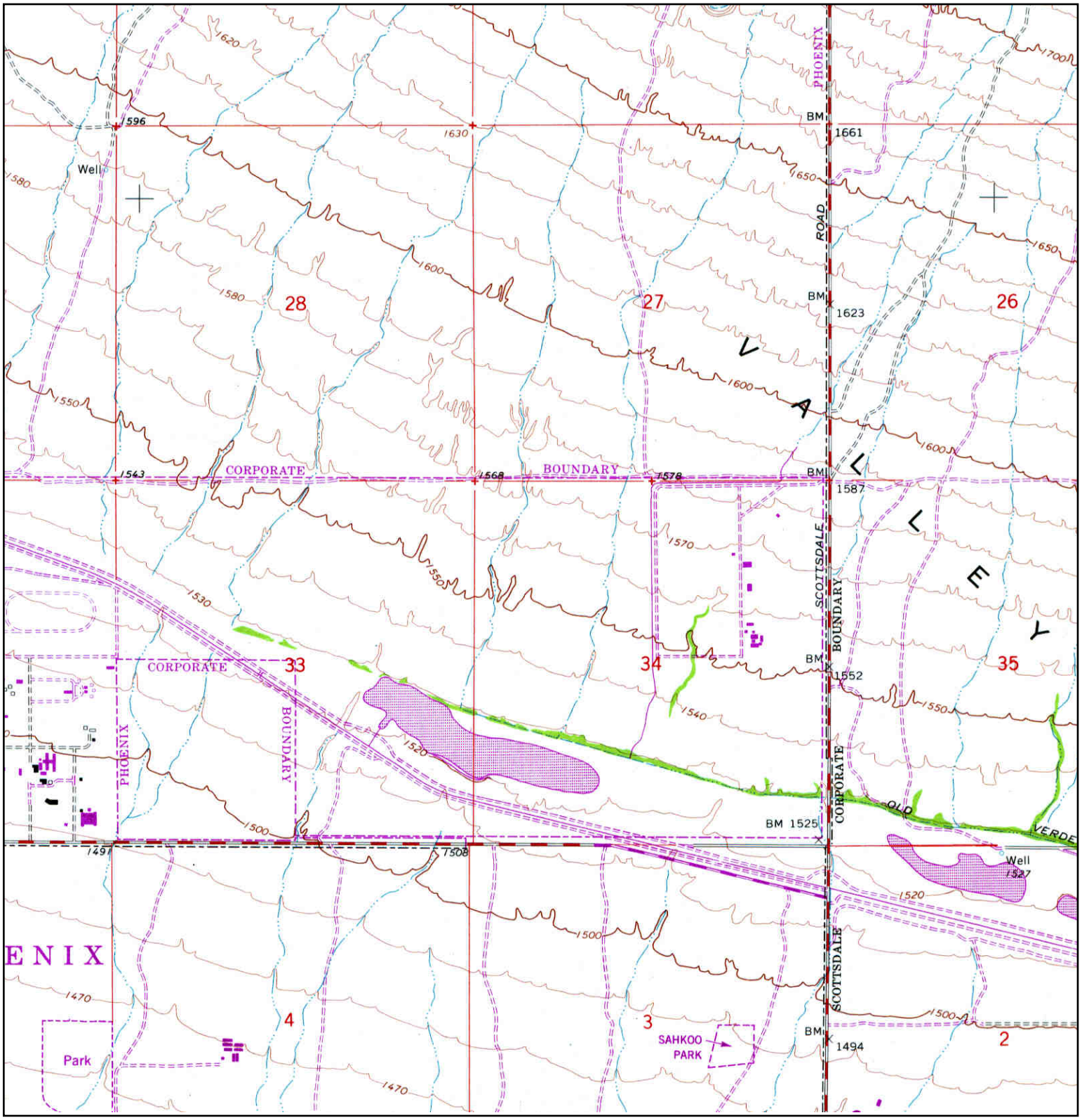
N	TARGET QUAD NAME: CURRYS CORNER MAP YEAR: 1964 SERIES: 7.5 SCALE: 1:24000	SITE NAME: SWC of 68th Street and Mayo Blvd. ADDRESS: SWC of 68th Street and Mayo Blvd Phoenix, AZ 85054 LAT/LONG: 33.6519 / -111.9387	CLIENT: Kimley-Horn & Associates Inc. CONTACT: Jennifer Tremayne INQUIRY#: 4363830.4 RESEARCH DATE: 07/24/2015

Historical Topographic Map



N	TARGET QUAD NAME: CURRYS CORNER MAP YEAR: 1973 PHOTOREVISED FROM :1964 SERIES: 7.5 SCALE: 1:24000	SITE NAME: SWC of 68th Street and Mayo Blvd. ADDRESS: SWC of 68th Street and Mayo Blvd Phoenix, AZ 85054 LAT/LONG: 33.6519 / -111.9387	CLIENT: Kimley-Horn & Associates Inc. CONTACT: Jennifer Tremayne INQUIRY#: 4363830.4 RESEARCH DATE: 07/24/2015

Historical Topographic Map



N	TARGET QUAD NAME: CURRYS CORNER MAP YEAR: 1982 PHOTOREVISED FROM :1964 SERIES: 7.5 SCALE: 1:24000	SITE NAME: SWC of 68th Street and Mayo Blvd. ADDRESS: SWC of 68th Street and Mayo Blvd Phoenix, AZ 85054 LAT/LONG: 33.6519 / -111.9387	CLIENT: Kimley-Horn & Associates Inc. CONTACT: Jennifer Tremayne INQUIRY#: 4363830.4 RESEARCH DATE: 07/24/2015

APPENDIX G

EDR City Directory Abstract

SWC of 68th Street and Mayo Blvd.
SWC of 68th Street and Mayo Blvd
Phoenix, AZ 85054

Inquiry Number: 4363830.5
July 24, 2015

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2013	Cole Information Services	-	-	-	-
	Cole Information Services	-	X	X	-
2008	Cole Information Services	-	-	-	-
2006	Hill-Donnelly Information Services	-	-	-	-
2001	Hill-Donnelly Information Services	-	-	-	-
1993	U S West Direct	-	-	-	-
1987	Mountain Bell A U S West Co.	-	-	-	-
1985	US WEST DIRECT	-	-	-	-
1982	R. L. Polk Co.	-	-	-	-
1979	R. L. Polk & Co.	-	-	-	-
1977	R. L. Polk & Co.	-	-	-	-
1970	The Mountain States Telephone and Telegraph Co.	-	-	-	-
1968	R. L. Polk & Co.	-	-	-	-
1965	R. L. Polk & Co.	-	-	-	-
1964	R. L. Polk & Co.	-	-	-	-
1960	Mullin-Kille Co.	-	-	-	-
1955	Mullin-Kille Co.	-	-	-	-
1952	Mullin - Kille Company and Baldwin ConSurvey	-	-	-	-
1950	The Baldwin and Mullin-Kille Co.	-	-	-	-
1947	Southside Directory Company	-	-	-	-
1945	Phoenix Directory Co	-	-	-	-
1940	Arizona Directory Co.	-	-	-	-
1935	Arizona Directory Co.	-	-	-	-
1930	Arizona Directory Co.	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1925	Arizona Directory	-	-	-	-
1920	Arizona Directory	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	***Type***	***Findings***
18017 N. 64th St.	Client Entered	
18440 N. 68th St.	Client Entered	
18220 N. 68th St.	Client Entered	
17950 N. 68th St.	Client Entered	
17850 N. 68th St.	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

SWC of 68th Street and Mayo Blvd
Phoenix, AZ 85054

FINDINGS DETAIL

Target Property research detail.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

N 68TH ST

17950 N 68TH ST

Year	*Uses*	*Source*
2013	BAROSSA AT PARADISE RIDGE	Cole Information Services
	MAYO CLINICCORPORATE HSE2003	Cole Information Services

18440 N 68TH ST

Year	*Uses*	*Source*
2013	NINETY DEGREES AT PARADISE RIDGE	Cole Information Services
	SYNERGY CORPORATE HOUSING	Cole Information Services

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
SWC of 68th Street and Mayo Blvd	2013, 2008, 2006, 2001, 1993, 1987, 1985, 1982, 1979, 1977, 1970, 1968, 1965, 1964, 1960, 1955, 1952, 1950, 1947, 1945, 1940, 1935, 1930, 1925, 1920

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
17850 N. 68th St.	2013, 2008, 2006, 2001, 1993, 1987, 1985, 1982, 1979, 1977, 1970, 1968, 1965, 1964, 1960, 1955, 1952, 1950, 1947, 1945, 1940, 1935, 1930, 1925, 1920
17950 N 68TH ST	2008, 2006, 2001, 1993, 1987, 1985, 1982, 1979, 1977, 1970, 1968, 1965, 1964, 1960, 1955, 1952, 1950, 1947, 1945, 1940, 1935, 1930, 1925, 1920
17950 N. 68th St.	2013, 2008, 2006, 2001, 1993, 1987, 1985, 1982, 1979, 1977, 1970, 1968, 1965, 1964, 1960, 1955, 1952, 1950, 1947, 1945, 1940, 1935, 1930, 1925, 1920
18017 N. 64th St.	2013, 2008, 2006, 2001, 1993, 1987, 1985, 1982, 1979, 1977, 1970, 1968, 1965, 1964, 1960, 1955, 1952, 1950, 1947, 1945, 1940, 1935, 1930, 1925, 1920
18220 N. 68th St.	2013, 2008, 2006, 2001, 1993, 1987, 1985, 1982, 1979, 1977, 1970, 1968, 1965, 1964, 1960, 1955, 1952, 1950, 1947, 1945, 1940, 1935, 1930, 1925, 1920
18440 N 68TH ST	2008, 2006, 2001, 1993, 1987, 1985, 1982, 1979, 1977, 1970, 1968, 1965, 1964, 1960, 1955, 1952, 1950, 1947, 1945, 1940, 1935, 1930, 1925, 1920
18440 N. 68th St.	2013, 2008, 2006, 2001, 1993, 1987, 1985, 1982, 1979, 1977, 1970, 1968, 1965, 1964, 1960, 1955, 1952, 1950, 1947, 1945, 1940, 1935, 1930, 1925, 1920

APPENDIX H

Owner Questionnaire

Kimley»Horn

SITE ASSESSMENT OWNER QUESTIONNAIRE

Property Name/Address:

Paradise Ridge 215-04-700A

Please return to Jennifer Tremayne at Jennifer.Temayne@kimley-horn.com

Form Completed By: Bruce Campbell
Phone: 602-542-2578
Date:

Your relationship to the property (Owner, Owner Representative, Property Manager, Tenant, etc.):

Owner representative

How long have you been associated with, or had knowledge of, the property?

14 yrs.

Section 1 Current and Historical Uses of Property

1. Name(s) of current and any previous occupant(s) or provide a tenant list.

   None

2. Please describe the current use(s) of the property or indicate uses on the tenant list.

   None

3. Please describe the past (historic) uses of the property, with approximate dates.

   vacant desert

4. Has a previous Phase I ESA or other Environmental Investigation been done on the property? Please provide a copy of these previous studies.

   unknown

Section 2 Potential Environmental Conditions

If you are aware of any of the conditions identified, please answer "yes" so that we can clarify all past and present environmental conditions.

	Conditions	Yes	No
1.	**Industrial Uses of Subject or Adjoining Properties** Industrial uses including but not limited to: gas/service stations, auto repair or painting, printing, dry cleaners, photo processing, or chrome plating, smelting petroleum refining and/or other chemical manufacturing *If Yes, please explain:*		X
2.	**Agricultural / Aquiculture Uses** Crop production, concentrated animal feeding (poultry, cattle, fish, etc.) *If Yes, please explain:*		X
3.	**Waste Storage or Disposal** Junkyard, recycling facility, battery storage, landfill, dump, wastewater lagoon *If Yes, please explain:*		X
4.	**Equipment Use, Storage, or Abandonment** Production lines, hydraulic equipment, vehicles, heavy equipment *If Yes, please explain:*		X
5.	**Hazardous Materials** (greater than 5-gallon containers or 25-lb bags) Pesticides, paints, solvents, acids, bases, antifreeze, other regulated materials *If Yes, please explain:*		X
6.	**Petroleum Hydrocarbons** (greater than 5 gallon containers) Gasoline, diesel, lubricating oil, waste oil, fuel oil, heating oil or bunker oil, kerosene, benzene, toluene, ethylbenzene xylene, aviation or jet fuel *If Yes, please explain:*		X
7.	**Spills or Releases of Petroleum Hydrocarbons or Hazardous Materials** Stained soil, dead vegetation or any other evidence of a petroleum or chemical spill *If Yes, please explain:*		X
8.	**PCBs** Transformers, hydraulic equipment *If Yes, please explain:*		X
9.	**Surface Water Issues** Pits, ponds, or lagoons associated with wastewater storage *If Yes, please explain:*		X
10.	**Groundwater Issues** Monitoring or drinking water wells, injection wells or drains that go directly into the ground *If Yes, please explain:*		X

Kimley»Horn

Conditions	Yes	No
11. Wastewater Issues Floor drains and trenches, sumps, oil water separators on the site *If Yes, please explain:*		X
12. Underground Storage Tanks (USTs) / Above ground Storage Tanks (ASTs) UST / ASTs present or removed – If yes, please specify material stored: gasoline, diesel, fuel oil, used oil; AND capacity. *If Yes, please explain:*		X
13. Asbestos Issues Asbestos Survey, Inspection, Operation and Management Plans, Abatement Reports *If Yes, please explain:*		X
14. Septic Tanks and Leachfields Currently used or abandoned *If Yes, please explain:*		X
15. Utility Corridors Oil or Gas Pipelines, Right-of-ways, Easements *If Yes, please explain:*		X
16. Regulatory Compliance Stormwater Plans, Spill Prevention Plans, Air Permits, Wastewater Discharge Permits, UST Permits, 404 Wetlands Permit. If yes, specify which Plan or Permit. *If Yes, please explain:*		X
17. Natural Resource Issues Wetlands and Riparian Areas, Critical Habitat, Threatened and Endangered Species, Historic or Cultural Resources *If Yes, please explain:*		X
18. Legal or Regulatory Actions Are you aware of any governmental enforcement actions or environmental liens with regards to the property, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substances or petroleum products, involving the property against the owner or any tenant of the property? *If Yes, please explain:*		X

I have completed the above questionnaire to the best of my knowledge.

Signature: Bruce Campbell Date 7/27/15

Printed name: Bruce Campbell

Company: Arizona State Land Department

APPENDIX I

EDR Radius Map™ Report with GeoCheck®

SWC of 68th Street and Mayo Blvd.
SWC of 68th Street and Mayo Blvd
Phoenix, AZ 85054

Inquiry Number: 4363830.2s
July 24, 2015

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

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

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	9
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-8
Physical Setting Source Map Findings	A-10
Physical Setting Source Records Searched	PSGR-1

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

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EXECUTIVE SUMMARY

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

TARGET PROPERTY INFORMATION

ADDRESS

SWC OF 68TH STREET AND MAYO BLVD
PHOENIX, AZ 85054

COORDINATES

Latitude (North):	33.6519000 - 33˚ 39' 6.84''
Longitude (West):	111.9387000 - 111˚ 56' 19.32''
Universal Tranverse Mercator:	Zone 12
UTM X (Meters):	412957.6
UTM Y (Meters):	3723762.2
Elevation:	1561 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	6718001 CURRYS CORNER, AZ
Version Date:	2014

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20100608
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
SWC OF 68TH STREET AND MAYO BLVD
PHOENIX, AZ 85054

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

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

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

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

Federal Delisted NPL site list

Delisted NPL ..... National Priority List Deletions

Federal CERCLIS list

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

Federal CERCLIS NFRAP site List

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

Federal RCRA CORRACTS facilities list

CORRACTS ..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

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

Federal institutional controls / engineering controls registries

US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls

LUCIS ..... Land Use Control Information System

Federal ERNS list

ERNS ..... Emergency Response Notification System

State- and tribal - equivalent NPL

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

State- and tribal - equivalent CERCLIS

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

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

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

State and tribal leaking storage tank lists

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

State and tribal registered storage tank lists

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

State and tribal institutional control / engineering control registries

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

State and tribal voluntary cleanup sites

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

State and tribal Brownfields sites

BROWNFIELDS ..... Brownfields Tracking System

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

Local Lists of Landfill / Solid Waste Disposal Sites

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

EXECUTIVE SUMMARY

ODI	Open Dump Inventory
SWTIRE	Solid Waste Tire Facilities
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL	Clandestine Drug Labs
CDL	Clandestine Drug Labs
US HIST CDL	National Clandestine Laboratory Register

Local Land Records

LIENS 2	CERCLA Lien Information

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
SPILLS	Hazardous Material Logbook
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
DOT OPS	Incident and Accident Data
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
US MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System
RMP	Risk Management Plans
UIC	Underground Injection Control Wells
MANIFEST	Facility and Manifest Data
DRYCLEANERS	Drycleaner Facility Listing
AZ DOD	Department of Defense Sites
WWFAC	Waste Water Treatment Facilities
Dry Wells	Drywell Registration
Aquifer	Waste Water Treatment Facilities
AIRS	Arizona Airs Database
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
EMAP	All Places of Interest Listing
Financial Assurance	Financial Assurance Information Listing

EXECUTIVE SUMMARY

LEAD SMELTERS ..... Lead Smelter Sites
US AIRS ..... Aerometric Information Retrieval System Facility Subsystem
EPA WATCH LIST ..... EPA WATCH LIST
US FIN ASSUR ..... Financial Assurance Information
COAL ASH EPA ..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ..... PCB Transformer Registration Database
COAL ASH DOE ..... Steam-Electric Plant Operation Data
2020 COR ACTION ..... 2020 Corrective Action Program List
PRP ..... Potentially Responsible Parties

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

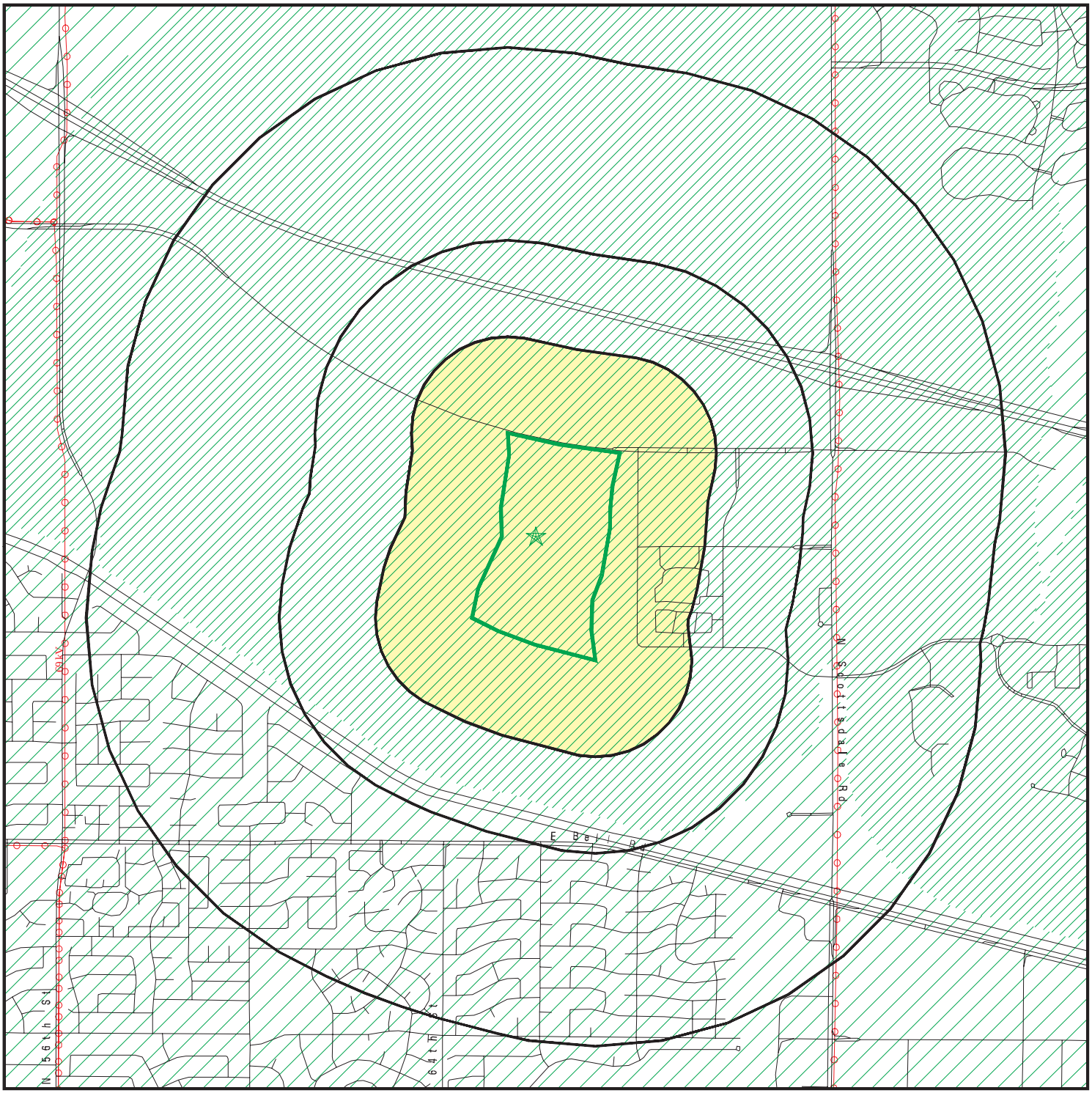
Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
WQ-EAST CENTRAL PHOENIX	SHWS
UFI	SWF/LF

OVERVIEW MAP - 4363830.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- DOD Sites: AZ DEQ
- Water Quality Assurance Revolving Fund Areas
- AZ NPL

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

SITE NAME: SWC of 68th Street and Mayo Blvd. ADDRESS: SWC of 68th Street and Mayo Blvd Phoenix AZ 85054 LAT/LONG: 33.6519 / 111.9387	CLIENT: Kimley-Horn & Associates Inc. CONTACT: Jennifer Tremayne INQUIRY #: 4363830.2s DATE: July 23, 2015 11:56 pm

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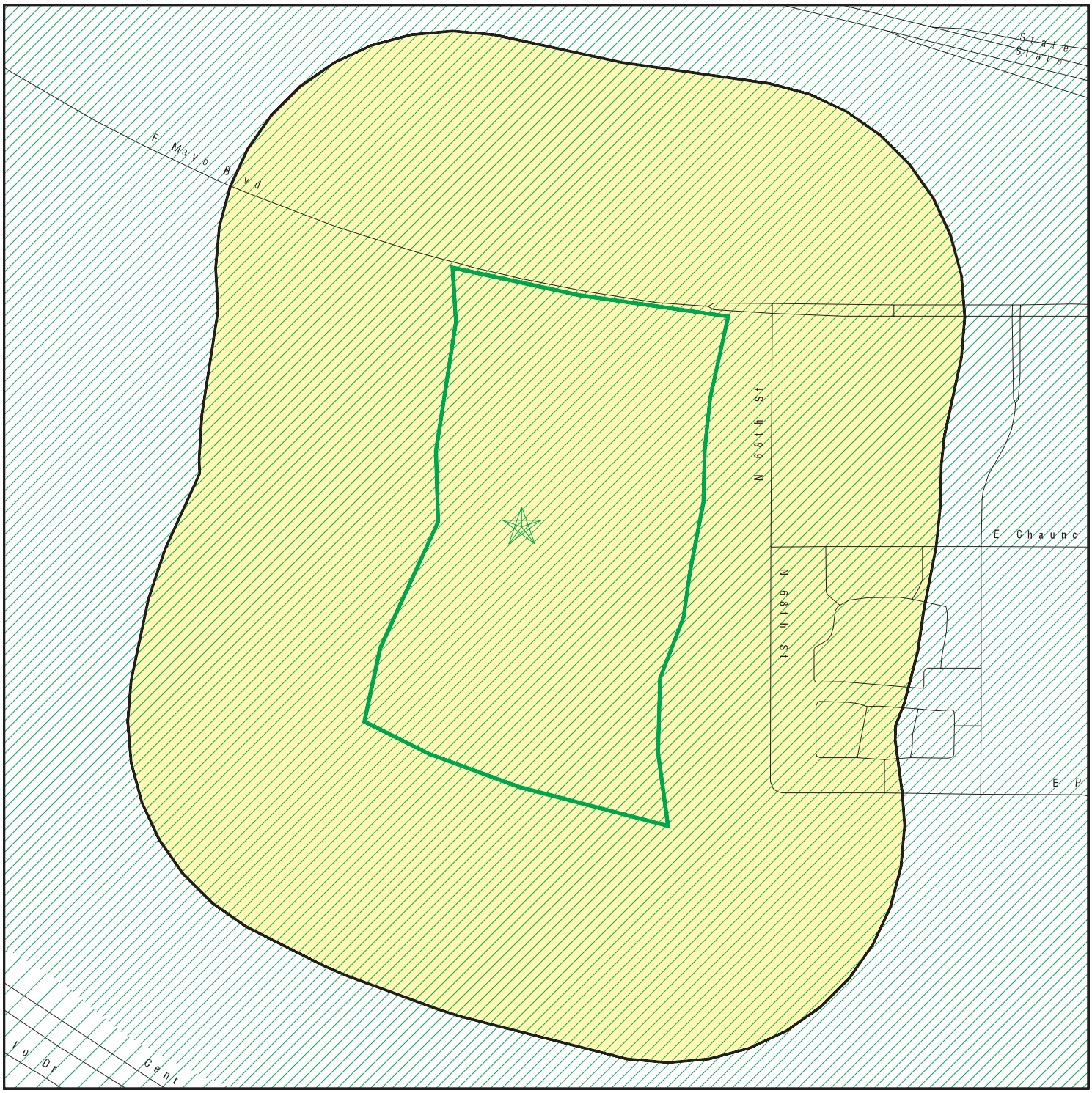
DETAIL MAP - 4363830.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/8 1/4 1/2 Miles

Indian Reservations BIA

100-year flood zone

500-year flood zone

DOD Sites: AZ DEQ

Water Quality Assurance Revolving Fund Areas

AZ NPL

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ADDRESS: SWC of 68th Street and Mayo Blvd Phoenix AZ 85054	CONTACT: Jennifer Tremayne INQUIRY #: 4363830.2s
LAT/LONG: 33.6519 / 111.9387	DATE: July 23, 2015 11:57 pm

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