Burge & Associates
Chemical & Hazardous Substance Consultants

PHASE I
ENVIRONMENTAL SITE ASSESSMENT (ESA)

STATE LAND
South of West Hunt Highway and Stone Creek Drive
San Tan Valley, Arizona 85143

September 20, 2018

Prepared for:

Van Tuyl Companies, Inc.
And
Arizona State Land Department

David Hoffman

Scott Burge, Ph.D.

2018-017

REGISTERED GEOLOGIST
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ARIZONA U.S.A.
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1.0 EXECUTIVE SUMMARY

Lee Burge & Associates, Inc. (Burge, Tempe, Arizona) was commissioned to perform and has completed a Phase I Environmental Site Assessment (ESA) of a State Land parcel located south of West Hunt Highway and Stone Creek Drive, San Tan Valley, Pinal County, Arizona (the "Site"). The ESA was requested in order to document Site conditions for a possible real estate transaction. ASTM 1527-13 was used as guidance in the preparation of this report.

The purpose of this Phase I ESA was to identify any existing or potential environmental hazards or Recognized Environmental Conditions (RECs) and to recommend whether any further investigation is required or warranted.

This Phase I ESA documents the results of a Federal and State database review and a field inspection at the Site performed on August 28, 2018. The Site was visually inspected for the presence and/or evidence of the discharge of regulated wastes or materials and other man-made environmental concerns.

Section 8.0 lists the findings about the environmental impacts observed during the site visit and a review of the historical data, adjacent properties, and the Federal and State databases.

Prior Assessments

No prior assessments for the Site were available for review.

Current Site Visit

A site visit was performed by David Hoffman (Burge) on August 28, 2018, consisting of a systematic physical review of the parcel.

The Site is a State Land parcel located south of West Hunt Highway and Stone Creek Drive, San Tan Valley, Pinal County, Arizona 85143 (the "Site"). The Site is located within a portion of the Northwest ¼ of Section 18, Township 3 South, Range 8 East. The Site is located at approximately N 33° 10' 29", W 111° 34' 44". The elevation of the Site is approximately 1,519 feet above mean sea level. County tax records indicate the property is a portion (west section west of East Hunt Highway) of Parcel number 210188220.

The Site is native desert. No improvements were observed with the exception of an irrigation ditch along the northeast perimeter.

The Site was visually inspected to determine if regulated materials were stored on or released to the Site, and if these materials may have had an adverse environmental impact on the Site.

During the Site visit, no visual evidence of current environmental issues, current Recognized Environmental Conditions, or Business Environmental Risks were revealed.

Underground Storage Tanks (USTs)/Aboveground Storage Tanks (ASTs)

No current or former USTs are registered or active at the Site. No USTs or ASTs were observed during the Site visit.

Historical Review

An inspection was made of the aerial photographs from 1961 to 2018 (Google Earth and NETRonline). Certain years were not available for review, however, the land use did not appear to change materially during the missing years. The 2018 and 1992 satellite views from Google Earth are included as Figures 3 and 3A, respectively.

The Site was native desert in all aerial photographs reviewed.

The aerial photograph review did not produce evidence to indicate that historical land use patterns had impacted the Site with releases of regulated waste or substances.

Adjacent Properties

The land use within approximately ¼ mile of the Site is documented in this section. The Site is located in an area transitioning from agricultural land in San Tan Valley, Arizona.

North – East Hunt Highway then residential
East – East Hunt Highway then agricultural
South – Residential
West – Native desert
Northwest - Retail

There was no visual evidence that any of the adjacent land uses have had an adverse environmental impact on the Site.

Federal and State Databases

The Site was not listed on any of the databases reviewed.

An evaluation of the database information for the Site and adjacent properties did not reveal any environmental concerns or RECs.

There was no visual evidence observed that any of the sites listed in the State or Federal databases (both geo-coded and non geo-coded) have adversely impacted the Site.

Conclusion

The scope of work included performing a standard Phase I ESA to ASTM E1527-13 standards. Such standard was the guideline for determining the presence of any regulated materials on, in, at or originating from the subject property.

The findings in Section 8.0 indicate that no evidence of a Recognized Environmental Condition (REC) was found to suggest that additional investigation is warranted or necessary at this time. Further, no indications of Business Environmental Risks (BERs) were found to be associated with the parcel.

2.0 INTRODUCTION

2.1 Purpose

Lee Burge & Associates, Inc. (Burge, Tempe, Arizona) was commissioned to perform and has completed a Phase I Environmental Site Assessment (ESA) of a State Land parcel located south of West Hunt Highway and Stone Creek Drive, San Tan Valley, Pinal County, Arizona (the "Site"). The ESA was requested in order to document Site conditions for a possible real estate transaction. ASTM 1527-13 was used as guidance in the preparation of this report.

The purpose of this Phase I ESA was to identify any existing or potential environmental hazards or Recognized Environmental Conditions (RECs) and to recommend whether any further investigation is required or warranted.

This Phase I ESA documents the results of a Federal and State database review and a field inspection at the Site performed on August 28, 2018. The Site was visually inspected for the presence and/or evidence of the discharge of regulated wastes or materials and other man-made environmental concerns.

2.2 Scope of Work

The scope of work included performing a standard Phase I Environmental Site Assessment to ASTM 1527-13 standards.

2.3 Assumptions

This ESA was commissioned by Van Tuyl companies, Inc.

2.4 Limitations and Exceptions

Exceptions to standard ESAs include the following items:
- No Chain-of-Title is provided.
- No determination was made as to any current or potential legal issues. Results of any research performed by the User are not included. User responsibilities include reviewing Title and Judicial records.

2.5 User Reliance

Lee Burge & Associates, Inc. warrants that the services, findings, and/or recommendations provided to Van Tuyl Companies, Inc., and the Arizona State Land Department, their affiliates and subsidiaries, and their respective successors and assigns (individually and collectively "Van Tuyl"), have been prepared, performed and rendered in accordance with procedures, practices and standards generally accepted and customary in the consultant's profession for use in similar assignments.

2.6 Conflict Certification

Lee Burge & Associates, Inc. has no present or contemplated future ownership interest or financial interest in the real estate that is the subject of this Environmental Assessment Report; and Burge & Associates has no personal interest with respect to the subject matter of the Environmental Assessment Report of the parties involved and Burge & Associates has no relationship with the property or the owners thereof which would prevent an independent analysis of the environmental or other conditions of the property.

3.0 SITE DESCRIPTION

3.1 Site Location and Legal Description

The Site is a State Land parcel located south of West Hunt Highway and Stone Creek Drive, San Tan Valley, Pinal County, Arizona 85143 (the "Site"). The Site is located within a portion of the Northwest ¼ of Section 18, Township 3 South, Range 8 East. The Site is located at approximately N 33° 10' 29", W 111° 34' 44". The elevation of the Site is approximately 1,519 feet above mean sea level. County tax records indicate the property is a portion (west section west of East Hunt Highway) of Parcel number 210188220.

David Hoffman (Lee Burge & Associates, Inc.) performed a Site visit on August 28, 2018.

3.2 Site and Vicinity General Characteristics

3.2.1 Local Geology

The Site is located southeast of the Queen Creek Valley near the southeast margin of the Sonoran Desert section of the Basin and Range physiographic province. Geologically, the area is underlain by several thousand feet of recent alluvial deposits, locally faulted sedimentary and volcanic rocks, and by granite and metamorphic bedrock. The latest geological events have resulted in integration of the modern Queen Creek drainage system with subsequent deposition of river fill, terrace and overbank deposits.

Earth fissure cracks have been reported within the Queen Creek area in the vicinity of the San Tan Mountains

3.2.2 Local Surface and Ground Water

No natural surface water features were located on the Site. The Arizona Department of Water Resources (ADWR) indicates that the depth to ground water in the area is approximately 400-500 feet below ground surface (bgs). The groundwater flow direction is expected to be to the southeast.

3.2.3 Climate

Climatological data was obtained from "Climatic Summary for Selected Sites in Arizona," compiled by the National Oceanographic and Atmospheric Administration. The temperatures for the Site range from a mean daily maximum of 106° F in July to a mean daily minimum of 39° F in January. The average annual precipitation is approximately 7 inches with the greatest rainfall occurring in August.

3.3 Current Use of the Property

The Site is native desert.

3.4 Description of Site Improvements

No improvements were observed with the exception of an irrigation ditch along the northeast perimeter.

3.5 Current Uses of Adjoining Properties

The land use within approximately ¼ mile of the Site is documented in this section. The Site is located in an area transitioning from agricultural land in San Tan Valley, Arizona (Figure 1).

North – East Hunt Highway then residential
East – East Hunt Highway then agricultural
South – Residential
West – Native desert
Northwest - Retail

There was no visual evidence that any of the adjacent land uses have had an adverse environmental impact on the Site.

4.0 USER PROVIDED INFORMATION

4.1 Title Records

Title records were excluded from this assessment.

4.2 Environmental Liens

No environmental liens were revealed during document review.

4.3 Specialized Knowledge

No environmental issues were revealed.

4.4 Commonly Known or Reasonably Ascertainable Information

No negative environmental issues were ascertained.

4.5 Valuation Reduction for Environmental Issues

Not applicable

4.6 Owner, Property Manager, and Occupant Information

The Arizona State Land Department owns the property (Appendix B). The ESA was authorized by Van Tuyl Companies, Inc.

4.7 Reason for Performing Phase I

The Phase I ESA was requested to document Site conditions for a possible real estate transaction.

5.0 RECORDS REVIEW

5.1 Standard Environmental Record Sources

REGULATORY AGENCY DATABASE REVIEW AND FILE RESEARCH

This section of the report documents the regulatory agency literature search conducted for the Site. The databases and files of the Environmental Protection Agency (EPA) and the ADEQ were researched regarding compliance of existing or former owners and tenants of the Site, as well as other sites located within specified distances from the Site. Environmental Data Resources (EDR) conducted the records review and research. The definitions of the databases, logs and files of the EPA and ADEQ are attached as Appendix A.

The statistical overview for Federal and State databases reviewed is provided in *Table 1*.

Table 1
Federal & State Database
Statistical Overview

Federal **Databases**	Updated	Radius (miles)	Mappable Sites Site	1/8	1/4 mile	1/2 mile	1/2> mile	Zip Code	Totals
NPL	5/13/18	1.00	0	0	0	0	0	0	0
CERCLIS	5/18/18	0.50	0	0	0	0	-	0	0
RCRA Generator	3/01/18	0.25	0	0	0	-	-	0	0
RCRA NLR	3/01/18	0.25	0	0	0	-	-	0	0
ERNS	3/19/18	TP	0	0	-	-	-	0	0
NFRAP	5/18/18	0.50	0	0	0	0	-	0	0

State/Tribal **Databases**	Updated	Radius (miles)	Mappable Sites Site	1/8	1/4 mile	1/2 mile	1/2> mile	Zip Code	Totals
STATE SITES	3/31/18	1.00	0	0	0	0	0	0	0
SPILLS	3/26/18	TP	0	-	-	-	-	0	0
SWL	3/31/18	0.50	0	0	0	0	-	0	0
PERMITS	6/17/18	TP	0	0	0	-	-	0	0
REG UST	3/20/18	0.25	0	0	0	-	-	0	0
LUST	3/20/18	0.50	0	0	0	0	-	0	0
OTHER	2/25/15	TP	0	-	-	-	-	0	0

TP – Target Property

This database search and study radii meets or exceeds the American Society of Testing and Materials (ASTM) standards for a government records review.

Mappable Sites are environmental sites which were located and appear on the enclosed Map, Site Summary and Detailed Data sections of the report. These sites are summarized based on proximity to the study site.

Unmappable Sites are governmental records with incomplete or inaccurate address information. These sites could not be located on the street map, but have been searched by the Zip Codes, Cities, and County specified in the search parameters.

The data provided on *Table 1* has been mapped on Figure 4. The Site was not listed on any of the databases reviewed. No sites were listed within the standard ASTM search radius. The details for the Federal and State databases have been included in Appendix A.

An evaluation of the database information for the Site and adjacent properties did not reveal any environmental concerns or RECs.

5.2 Additional Environmental Record Sources

No additional sources were reviewed.

5.3 Physical Setting Sources

Street maps, Google Earth, Maricopa County Assessor's Database, USGS and D.W.R Hydrologic Well Database Map.

5.4 Historical Use - Site

No Sanborn maps were available for the Site.

Prior Assessments

No prior ESAs were available for review.

Aerial Photographs

An inspection was made of the aerial photographs from 1961 to 2018 (Google Earth and NETRonline). Certain years were not available for review, however, the land use did not appear to change materially during the missing years. The 2018 and 1992 satellite views from Google Earth are included as Figures 3 and 3A, respectively.

The Site was native desert in all aerial photographs reviewed.

The aerial photograph review did not produce evidence to indicate that historical land use patterns had impacted the Site with releases of regulated waste or substances.

5.5 Historical Use – Adjacent Properties

Northeast – Agricultural from 1961 to 2002. Vacant or residential construction until full residential by 2010.
East – Agricultural or citrus until retail in all aerial photographs reviewed.
South – Native desert from 1961 to 2002 when a golf course was visible.
West – Native desert in all aerial photographs reviewed.
Northwest – Agricultural or vacant from 1961 to 2005. Retail from 2006 to 2018.
The aerial photograph review of adjacent properties did not produce evidence to indicate that historical land use patterns had impacted the Site with releases of regulated waste or substances.

6.0 SITE RECONNAISSANCE

6.1 Methodology and Limiting Conditions

A site visit was performed by David Hoffman (Burge) on August 28, 2018, consisting of a systematic physical review of the parcel.

6.2 General Site Setting

The Site is a State Land parcel located south of West Hunt Highway and Stone Creek Drive, San Tan Valley, Pinal County, Arizona 85143 (the "Site"). The Site is located within a portion of the Northwest ¼ of Section 18, Township 3 South, Range 8 East. The Site is located at approximately N 33° 10' 29", W 111° 34' 44". The elevation of the Site is approximately 1,519 feet above mean sea level. County tax records indicate the property is a portion (west section west of East Hunt Highway) of Parcel number 210188220.

The Site is native desert. No improvements were observed with the exception of an irrigation ditch along the northeast perimeter.

The Site was visually inspected to determine if regulated materials were stored on or released to the Site, and if these materials may have had an adverse environmental impact on the Site. Eight photographs (Photographs #1 through #6) were exposed during the Site visit and are included in this report.

Photographic Log

Photograph #1: View to the northwest along the northeast perimeter of the Site.

Photograph #2: View to the west along the south perimeter of the Site.

Photograph #3: View to the northwest of the central section of the Site.

Photograph #4: View to the east along the south perimeter of the Site.

Photograph #5: View to the north along the west perimeter of the Site.

Photograph #6: View to the south along the west perimeter of the Site.

Photograph #7: View to the southeast along the northeast perimeter of the Site.

Photograph #8: View to the east of the central section of the Site.

6.3 Interior Observations

No structures were observed.

GENERAL BUSINESS ENVIRONMENTAL RISKS (BERs)

Potential BERs including asbestos containing materials (ACMs), lead-based paint (LBP) hazards, microbial growth and moisture intrusion, environmental non-compliance issues, wetlands, and activity & use limitations (AULs) were reviewed.

Asbestos

There were no structures on the Site.

Lead Paint

There were no structures on the Site.

Mold

There were no structures on the Site.

Environmental Non-Compliance Issues

No environmental non-compliance issues were revealed during the or document review.

Wetlands

The Site is not within a wetlands zone.

Transformers

Transformers and their associated financial and environmental risks remain the liability of the utility.

AULs

No activity or use limitations were revealed during the document review.

No BERs were observed.

6.4 Exterior Observations

No staining or other indications of environmental issues were observed. No ground-water monitor wells, dry wells, storm water structures, underground storage tanks, aboveground storage tanks, underground hydraulic lifts, or landscaping was observed.

No environmental issues associated with the exterior areas were observed.

In addition to details described in the findings above, the following items were considered:

Table 2
Additional Considerations

Item	Site Inspection Observation	Issues
Staining or discoloration on any surface, septic systems, sumps, distressed vegetation	None observed	None
Storm drains, wells with depth, screened intervals, permitting and/or registrations	None	None
Suspect, patched asphalt or concrete areas	None	None
Railroad spurs	None	None
Paint booths, spray rigs, etc.	None	None
Emergency generators.	None	None
Easements.	None	None
Unusual odors	None	None
Disturbed soils	None	None
Air emissions.	None	None
Underground lifts, elevators, transformers with PCBs	None	None
Radiological equipment.	None	None
Oil or gas well exploration, or refinery activities.	None	None
Known or potential groundwater or surface water contamination.	None	None
Farm waste, feed lot spoils or manure stockpiles.	None	None
Known or potential use of pesticides/ herbicides.	None	None
Migration of potential contaminates to the site from an off-site source.	None	None
Basements, subsurface vaults	None	None
Endangered species, historic landmarks/ structures, archaeological features	No information to suggest further investigation.	None

7.0 INTERVIEWS

The User Questionnaire (Section X3, ASTM 1527-13) was used as guidance for the interview. Mr. Ray Moore, Arizona State Land Department, was interviewed by telephone on September 20, 2018, about environmental issues.

Ql – Environmental cleanup liens.
A – Not aware of any liens.

Q2 – Land use limitations.
A – None

Q3 – Specialized knowledge.
A – Mr. Moore has specialized knowledge of the site.

Q4 – Fair market price.
A – Not applicable.

Q5 – Past uses.
A – Mr. Moore is not aware of any past used for the Site.

Q6 – Likely contamination.
A – None.

8.0 FINDINGS

8.1 Prior Assessments

No prior assessments for the Site were available for review.

8.2 Current Site Visit

A site visit was performed by David Hoffman (Burge) on August 28, 2018, consisting of a systematic physical review of the parcel.

The Site is a State Land parcel located south of West Hunt Highway and Stone Creek Drive, San Tan Valley, Pinal County, Arizona 85143 (the "Site"). The Site is located within a portion of the Northwest ¼ of Section 18, Township 3 South, Range 8 East. The Site is located at approximately N 33° 10' 29", W 111° 34' 44". The elevation of the Site is approximately 1,519 feet above mean sea level. County tax records indicate the property is a portion (west section west of East Hunt Highway) of Parcel number 210188220.

The Site is native desert. No improvements were observed with the exception of an irrigation ditch along the northeast perimeter.

The Site was visually inspected to determine if regulated materials were stored on or released to the Site, and if these materials may have had an adverse environmental impact on the Site.

During the Site visit, no visual evidence of current environmental issues, current Recognized Environmental Conditions, or Business Environmental Risks were revealed.

8.3 Underground Storage Tanks (USTs)/Aboveground Storage Tanks (ASTs)

No current or former USTs are registered or active at the Site. No USTs or ASTs were observed during the Site visit.

8.4 Historical Review

An inspection was made of the aerial photographs from 1961 to 2018 (Google Earth and NETRonline). Certain years were not available for review, however, the land use did not appear to change materially during the missing years. The 2018 and 1992 satellite views from Google Earth are included as Figures 3 and 3A, respectively.

The Site was native desert in all aerial photographs reviewed.

The aerial photograph review did not produce evidence to indicate that historical land use patterns had impacted the Site with releases of regulated waste or substances.

8.5 Adjacent Properties

The land use within approximately ¼ mile of the Site is documented in this section. The Site is located in an area transitioning from agricultural land in San Tan Valley, Arizona.

North – East Hunt Highway then residential
East – East Hunt Highway then agricultural
South – Residential
West – Native desert
Northwest - Retail

There was no visual evidence that any of the adjacent land uses have had an adverse environmental impact on the Site.

8.6 Federal and State Databases

The Site was not listed on any of the databases reviewed.

An evaluation of the database information for the Site and adjacent properties did not reveal any environmental concerns or RECs.

There was no visual evidence observed that any of the sites listed in the State or Federal databases (both geo-coded and non geo-coded) have adversely impacted the Site.

9.0 OPINION

In the professional opinion of Lee Burge & Associates, Inc. an appropriate level of inquiry has been made into the previous ownership and uses of the property consistent with good commercial and customary practice in an effort to minimize liability.

10.0 CONCLUSIONS

The scope of work included performing a standard Phase I ESA to ASTM E1527-13 standards. Such standard was the guideline for determining the presence of any regulated materials on, in, at or originating from the subject property.

The findings in Section 8.0 indicate that no evidence of a Recognized Environmental Condition (REC) was found to suggest that additional investigation is warranted or necessary at this time. Further, no indications of Business Environmental Risks (BERs) were found to be associated with the parcel.

11.0 LIMITATIONS

The conclusions provided by Lee Burge & Associates, Inc. are based solely on the information presented in this report. Additional information, which was not found or available to Lee Burge & Associates, Inc. at the time of writing this report, may result in modification of the conclusions or recommendations presented. Conclusions or recommendations included in this report reflect those conditions identified and found at the time of the Site visit. Existing conditions on the subject property may change with use and time.

No environmental site assessment can wholly eliminate uncertainty regarding the potential for Recognized Environmental Conditions (REC) in connection with a property. This assessment is intended to reduce uncertainty regarding the potential for RECs within the limits of time and cost allowed for this assessment by the requestor.

12.0 ENVIRONMENTAL PROFESSIONAL STATEMENT

I, Scott Burge, Ph.D., declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and I have the specific education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40, CFR Part 312.

_____ _____September 20, 2018____

Scott R. Burge, Principal Date

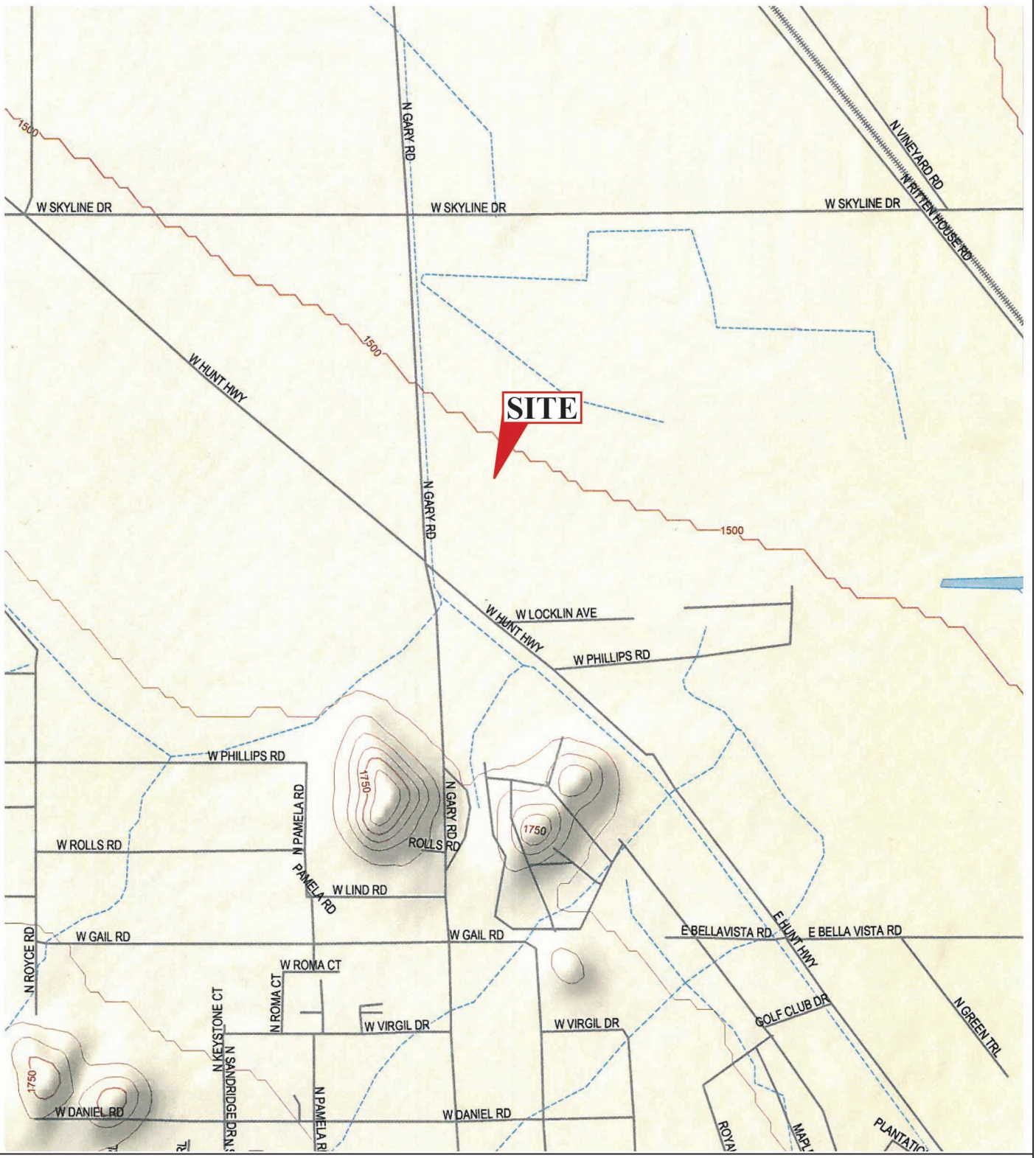

FIGURE 1
SITE LOCATION

VACANT PARCEL
West Hunt Highway
San Tan Valley, Arizona

North

0 600 1200 1800 2400 3000 FT.
1" = 2,083.3 FEET

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18-017

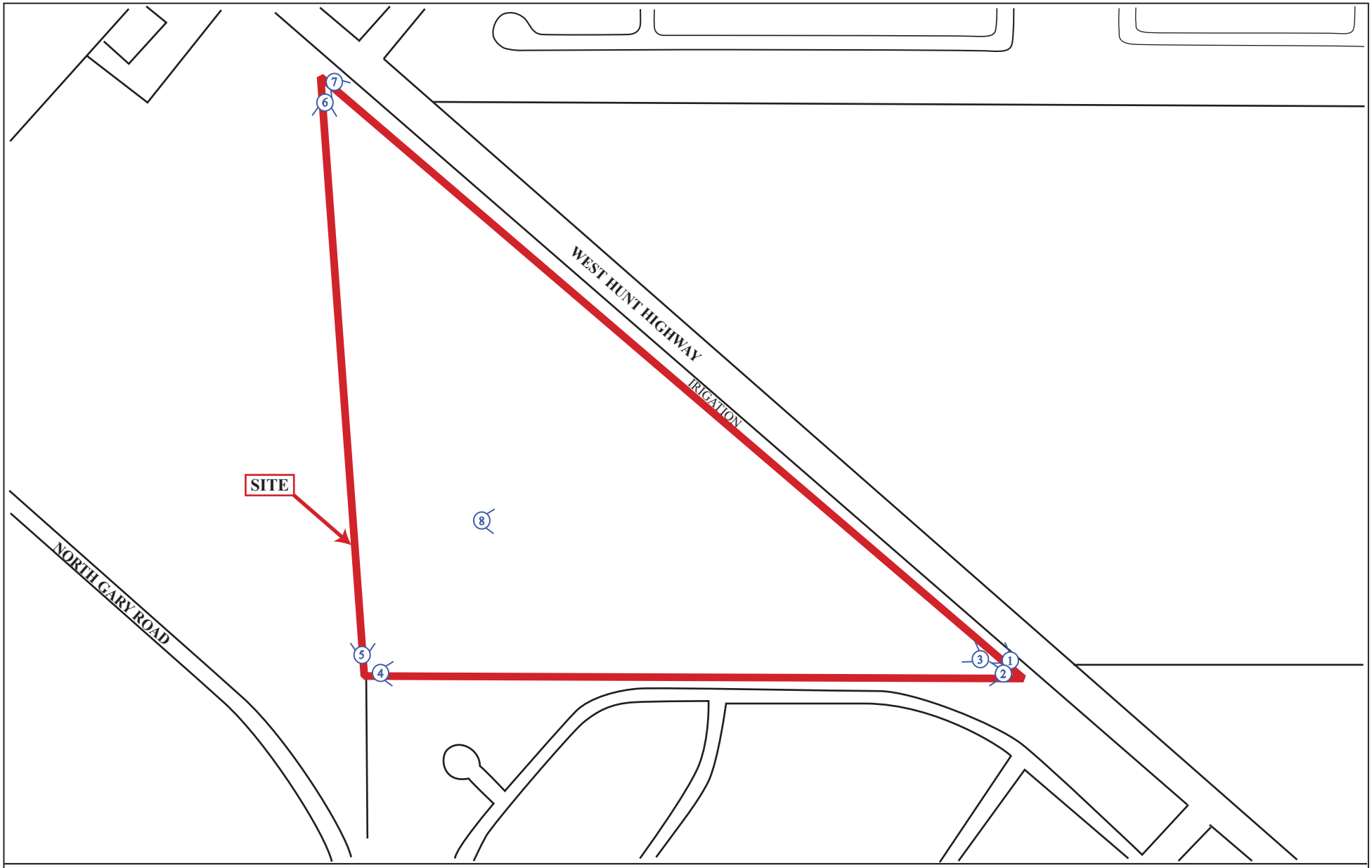


FIGURE 2
SITE MAP
VACANT PARCEL
West Hunt Highway
San Tan Valley, Arizona

North

Burge & Associates

PHOTOGRAPH

18-017

FIGURE 3

AERIAL PHOTOGRAPH (GOOGLE EARTH 4/06/18)

VACANT PARCEL

West Hunt Highway

San Tan Valley, Arizona

North

Burge & Associates

18-017

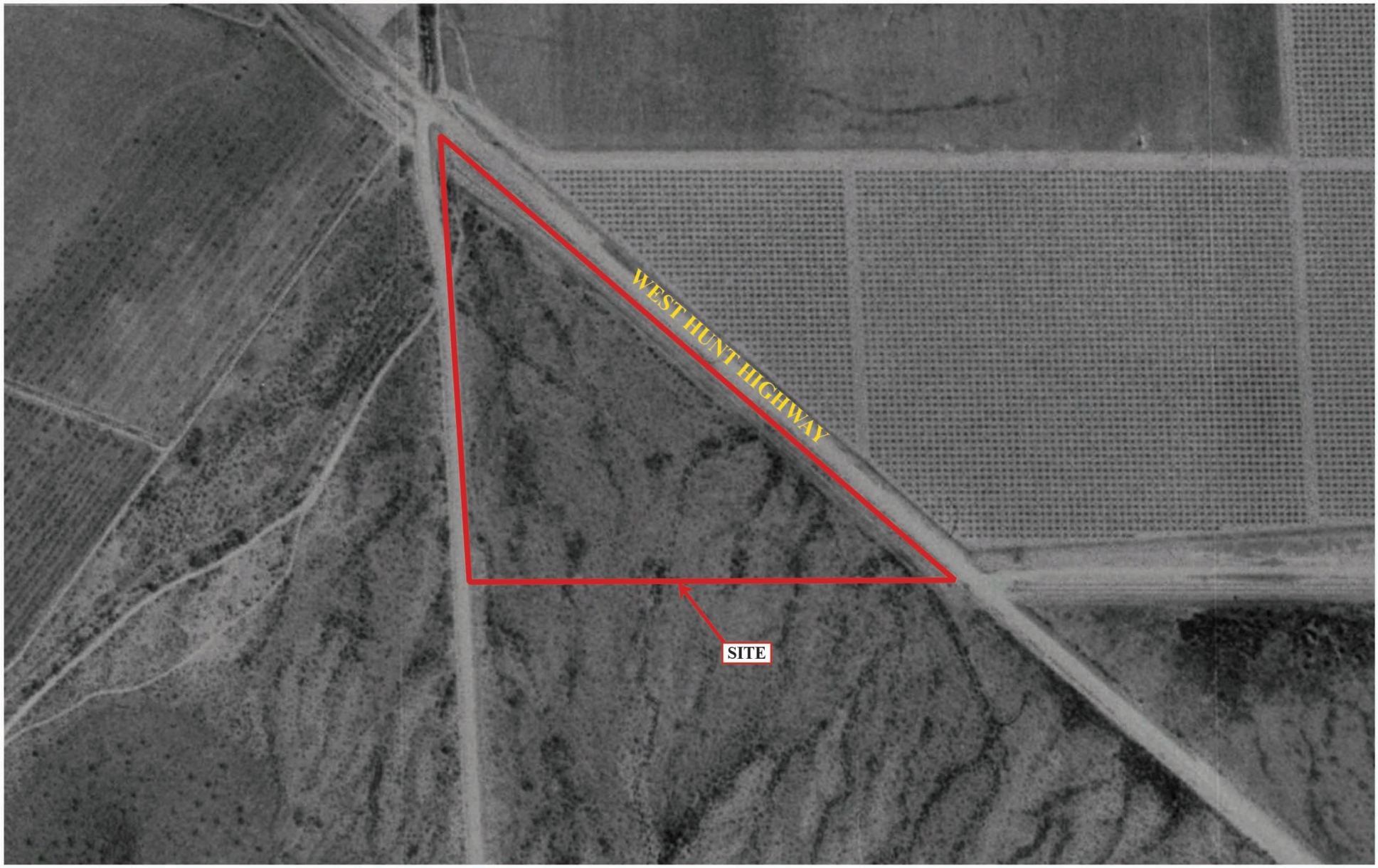


FIGURE 3A

AERIAL PHOTOGRAPH (GOOGLE EARTH 7/26/1992)

VACANT PARCEL

West Hunt Highway

San Tan Valley, Arizona

North

Burge & Associates

18-017

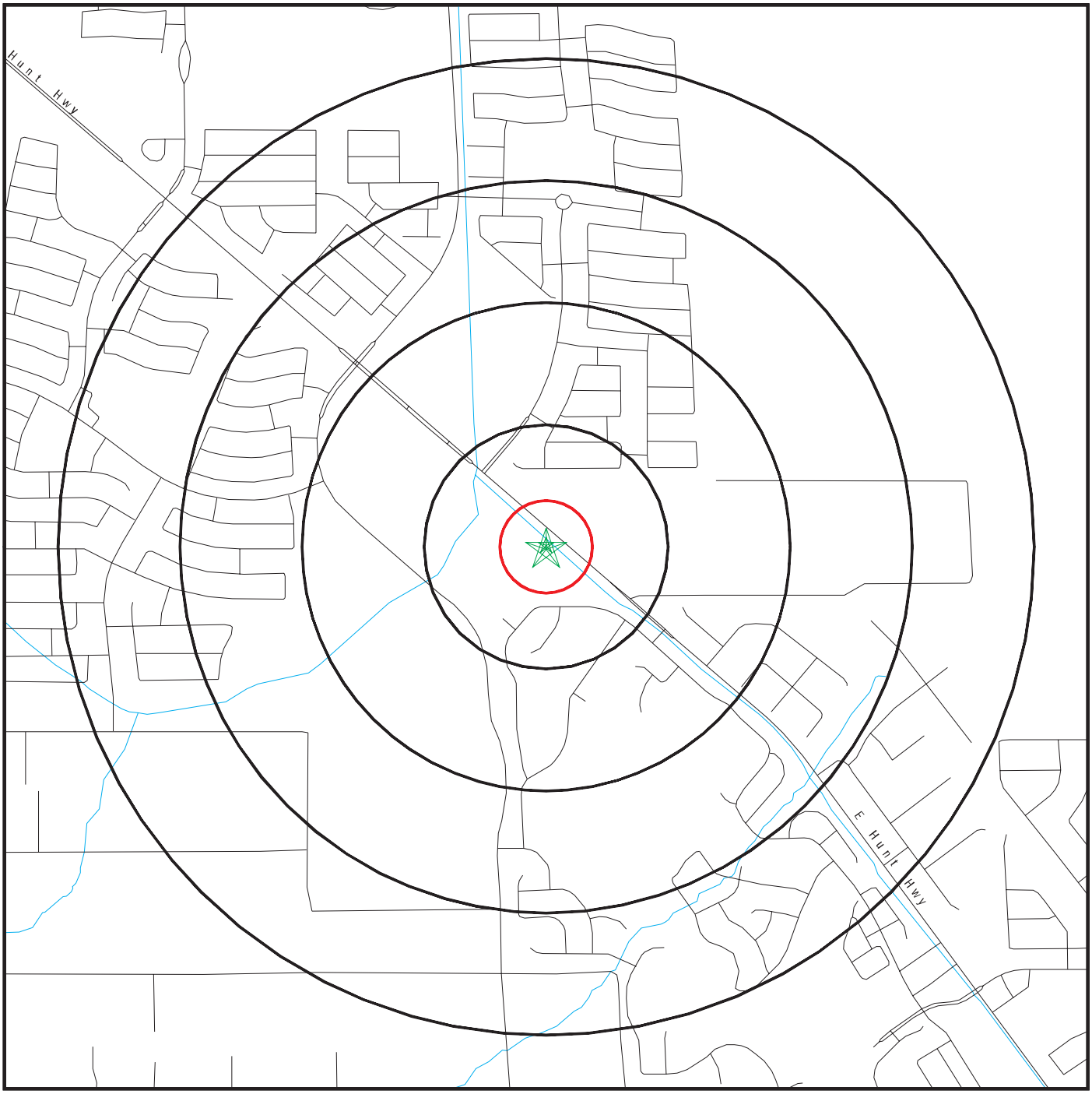
Environmental FirstSearch

1.000 Mile Radius

ASTM MAP: NPL, RCRACOR, STATES Sites

FIGURE 4

HUNT HIGHWAY & 25 SAN TAN VALLEY, AZ 85143



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

Target Property (Latitude: 33.174336 Longitude: 111.578194)

Identified Sites

National Priority List Sites

Indian Reservations BIA

DOD Sites: AZ DEQ

Water Quality Assurance Revolving Fund Areas

Areas of Concern

EDR Reference Code (EDR internal use only): 5408529.2s

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18-08-28.18:58:33.Tue

Photograph #1: View to the northwest of the northeast perimeter of the Site.

Photograph #2: View to the west along the south perimeter of the Site.

PHOTOGRAPHIC RECORD

VACANT PARCEL
West Hunt Highway
San Tan Valley, Arizona

Burge & Associates
18-017

Photographs By: David Hoffman
Date: 8/28/2018

Photograph #3: View to the northwest of the central section of the Site.

Photograph #4: View to the east along the south perimeter of the Site.

PHOTOGRAPHIC RECORD

VACANT PARCEL
West Hunt Highway
San Tan Valley, Arizona

Burge & Associates
18-017

Photographs By: David Hoffman
Date: 8/28/2018

Photograph #5: View to the north along the west perimeter of the Site.

Photograph #6: View to the south along the west perimeter of the Site.

PHOTOGRAPHIC RECORD

VACANT PARCEL
West Hunt Highway
San Tan Valley, Arizona

Burge & Associates
18-017

Photographs By: David Hoffman
Date: 8/28/2018

Photograph #7: View to the southeast along the northeast perimeter of the Site.

Photograph #8: View to the east of the central section of the Site.

PHOTOGRAPHIC RECORD

VACANT PARCEL
West Hunt Highway
San Tan Valley, Arizona

Burge & Associates
18-017

Photographs By: David Hoffman
Date: 8/28/2018

APPENDIX A

Hunt Highway & 25
Hunt Highway & 25
San Tan Valley, AZ 85143

Inquiry Number: 5408529.2s
August 28, 2018

FirstSearch Report

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

Search Summary Report

TARGET SITE **HUNT HIGHWAY & 25**
SAN TAN VALLEY, AZ 85143

Category	Sel	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
NPL	Y	0	0	0	0	0	0	0
NPL Delisted	Y	0	0	0	0	0	0	0
CERCLIS	Y	0	0	0	0	-	0	0
NFRAP	Y	0	0	0	0	-	0	0
RCRA COR ACT	Y	0	0	0	0	0	0	0
RCRA TSD	Y	0	0	0	0	-	0	0
RCRA GEN	Y	0	0	0	-	-	0	0
Federal IC / EC	Y	0	0	0	0	-	0	0
ERNS	Y	0	-	-	-	-	0	0
State/Tribal NPL	Y	0	0	0	0	-	0	0
State/Tribal CERCLIS	Y	0	0	0	0	0	0	0
State/Tribal SWL	Y	0	0	0	0	-	0	0
State/Tribal LTANKS	Y	0	0	0	0	-	0	0
State/Tribal Tanks	Y	0	0	0	-	-	0	0
State/Tribal IC / EC	Y	0	0	0	0	-	0	0
State/Tribal VCP	Y	0	0	0	0	-	0	0
ST/Tribal Brownfields	Y	0	0	0	0	-	0	0
US Brownfields	Y	0	0	0	0	-	0	0
Other Haz Sites	Y	0	-	-	-	-	0	0
Spills	Y	0	-	-	-	-	0	0
Other	Y	0	0	0	-	-	0	0
	- Totals --	0	0	0	0	0	0	0

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Search Summary Report

TARGET SITE: **HUNT HIGHWAY & 25**
SAN TAN VALLEY, AZ 85143

Category	Database	Update	Radius	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
NPL	NPL	05/13/2018	1.000	0	0	0	0	0	0	0
	Proposed NPL	05/13/2018	1.000	0	0	0	0	0	0	0
NPL Delisted	Delisted NPL	05/13/2018	1.000	0	0	0	0	0	0	0
CERCLIS	SEMS	05/18/2018	0.500	0	0	0	0	-	0	0
NFRAP	SEMS-ARCHIVE	05/18/2018	0.500	0	0	0	0	-	0	0
RCRA COR ACT	CORRACTS	03/01/2018	1.000	0	0	0	0	0	0	0
RCRA TSD	RCRA-TSDF	03/01/2018	0.500	0	0	0	0	-	0	0
RCRA GEN	RCRA-LQG	03/01/2018	0.250	0	0	0	-	-	0	0
	RCRA-SQG	03/01/2018	0.250	0	0	0	-	-	0	0
	RCRA-CESQG	03/01/2018	0.250	0	0	0	-	-	0	0
Federal IC / EC	US ENG CONTROLS	02/13/2018	0.500	0	0	0	0	-	0	0
	US INST CONTROL	02/13/2018	0.500	0	0	0	0	-	0	0
ERNS	ERNS	03/19/2018	TP	0	-	-	-	-	0	0
State/Tribal NPL	AZ NPL	03/31/2018	0.500	0	0	0	0	-	0	0
	AZ WQARF	03/31/2018	1.000	0	0	0	0	0	0	0
State/Tribal CERCLIS	SPL	08/25/2004	1.000	0	0	0	0	0	0	0
	SHWS	01/03/2000	1.000	0	0	0	0	0	0	0
State/Tribal SWL	SWF/LF	03/31/2018	0.500	0	0	0	0	-	0	0
State/Tribal LTANKS	LUST	03/20/2018	0.500	0	0	0	0	-	0	0
	INDIAN LUST	04/13/2018	0.500	0	0	0	0	-	0	0
State/Tribal Tanks	UST	03/20/2018	0.250	0	0	0	-	-	0	0
	AST	03/13/2018	0.250	0	0	0	-	-	0	0
	INDIAN UST	04/13/2018	0.250	0	0	0	-	-	0	0
State/Tribal IC / EC	AZURITE	03/08/2018	0.500	0	0	0	0	-	0	0
	AUL	03/08/2018	0.500	0	0	0	0	-	0	0
State/Tribal VCP	VCP	01/25/2018	0.500	0	0	0	0	-	0	0

Search Summary Report

TARGET SITE: **HUNT HIGHWAY & 25**
SAN TAN VALLEY, AZ 85143

Category	Database	Update	Radius	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
ST/Tribal Brownfields	BROWNFIELDS	01/25/2018	0.500	0	0	0	0	-	0	0
US Brownfields	US BROWNFIELDS	03/19/2018	0.500	0	0	0	0	-	0	0
Other Haz Sites	US CDL	02/22/2018	TP	0	-	-	-	-	0	0
Spills	HMIRS	03/26/2018	TP	0	-	-	-	-	0	0
	SPILLS	11/15/2001	TP	0	-	-	-	-	0	0
	SPILLS 90	12/11/2001	TP	0	-	-	-	-	0	0
Other	RCRA NonGen / NLR	03/01/2018	0.250	0	0	0	-	-	0	0
	TSCA	12/31/2016	TP	0	-	-	-	-	0	0
	TRIS	12/31/2016	TP	0	-	-	-	-	0	0
	SSTS	12/31/2009	TP	0	-	-	-	-	0	0
	RAATS	04/17/1995	TP	0	-	-	-	-	0	0
	PRP	10/25/2013	TP	0	-	-	-	-	0	0
	PADS	06/01/2017	TP	0	-	-	-	-	0	0
	ICIS	11/18/2016	TP	0	-	-	-	-	0	0
	FTTS	04/09/2009	TP	0	-	-	-	-	0	0
	MLTS	08/30/2016	TP	0	-	-	-	-	0	0
	RADINFO	04/03/2018	TP	0	-	-	-	-	0	0
	INDIAN RESERV	12/31/2014	1.000	0	0	0	0	0	0	0
	US AIRS	10/12/2016	TP	0	-	-	-	-	0	0
	FINDS	02/21/2018	TP	0	-	-	-	-	0	0
	AZ DOD	03/31/2018	1.000	0	0	0	0	0	0	0
	Dry Wells	06/17/2018	TP	0	-	-	-	-	0	0
	- Totals --			0	0	0	0	0	0	0

Site Information Report

Request Date:	AUGUST 28, 2018	**Search Type:**	COORD
Request Name:	DAVID HOFFMAN	**Job Number:**	18-017

Target Site: HUNT HIGHWAY & 25
SAN TAN VALLEY, AZ 85143

Site Location

	Degrees (Decimal)	Degrees (Min/Sec)		UTMs
Longitude:	111.578194	111.5781940 - 111° 34' 41.49''	Easting:	446092.4
Latitude:	33.174336	33.1743360 - 33° 10' 27.60''	Northing:	3670571.2
Elevation:	1517 ft. above sea level		Zone:	Zone 12

Demographics

Sites: 0 **Non-Geocoded:** 0 **Population:** N/A

RADON

Federal EPA Radon Zone for PINAL County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for PINAL COUNTY, AZ

Number of sites tested: 28

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.471 pCi/L	93%	7%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

Target Site Summary Report

Target Property: HUNT HIGHWAY & 25
SAN TAN VALLEY, AZ 85143

JOB: 18-017

TOTAL: 0 GEOCODED: 0 NON GEOCODED: 0

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.

No sites found for target address

NO SITES FOUND

Database Descriptions

NPL: NPL National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices. NPL - National Priority List Proposed NPL - Proposed National Priority List Sites.

NPL Delisted: Delisted NPL The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate. Delisted NPL - National Priority List Deletions

CERCLIS: SEMS SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL. SEMS - Superfund Enterprise Management System

NFRAP: SEMS-ARCHIVE SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site. SEMS-ARCHIVE - Superfund Enterprise Management System Archive

RCRA COR ACT: CORRACTS CORRACTS identifies hazardous waste handlers with RCRA corrective action activity. CORRACTS - Corrective Action Report

RCRA TSD: RCRA-TSDF RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste. RCRA-TSDF - RCRA - Treatment, Storage and Disposal

RCRA GEN: RCRA-LQG RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. RCRA-LQG - RCRA - Large Quantity Generators RCRA-SQG - RCRA - Small Quantity Generators. RCRA-CESQG - RCRA - Conditionally Exempt Small Quantity Generators.

Federal IC / EC: US ENG CONTROLS A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. US ENG CONTROLS - Engineering Controls Sites List US INST CONTROL - Sites with Institutional Controls.

Database Descriptions

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

State/Tribal NPL: AZ NPL Detailed site information for NPL sites from the Arizona Department of Environmental Quality. AZ NPL - NPL Detail Listing WQARF - Water Quality Assurance Revolving Fund Sites.

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

State/Tribal SWL: SWF/LF Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites. SWF/LF - Directory of Solid Waste Facilities

State/Tribal LTANKS: LUST Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. LUST - Leaking Underground Storage Tank Listing INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R10 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R5 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R9 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R6 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R4 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R7 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R1 - Leaking Underground Storage Tanks on Indian Land.

State/Tribal Tanks: UST Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program. UST - Underground Storage Tank Listing AST - List of Aboveground Storage Tanks. AST 2 - Aboveground Storage Tank Listing. INDIAN UST R7 - Underground Storage Tanks on Indian Land. INDIAN UST R6 - Underground Storage Tanks on Indian Land. INDIAN UST R5 - Underground Storage Tanks on Indian Land. INDIAN UST R4 - Underground Storage Tanks on Indian Land. INDIAN UST R9 - Underground Storage Tanks on Indian Land. INDIAN UST R8 - Underground Storage Tanks on Indian Land. INDIAN UST R10 - Underground Storage Tanks on Indian Land. INDIAN UST R1 - Underground Storage Tanks on Indian Land.

State/Tribal IC / EC: AZURITE ADEQ maintains a repository listing sites remediated under programs administered by the department. AZURITE - Remediation and DEUR/VEMUR Tracking System AUL - DEUR Database.

State/Tribal VCP: VCP Sites involved in the Voluntary Remediation Program. VCP - Voluntary Remediation Program Sites

ST/Tribal Brownfields: BROWNFIELDS Information relating to Brownfields sites in Arizona. BROWNFIELDS - Brownfields Tracking System

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

Database Descriptions

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

Spills: HMIRS Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT. HMIRS - Hazardous Materials Information Reporting System SPILLS - Hazardous Material Logbook. SPILLS 90 - SPILLS90 data from FirstSearch.

Other: RCRA NonGen / NLR RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste. RCRA NonGen / NLR - RCRA - Non Generators / No Longer Regulated FEDLAND - Federal and Indian Lands. TSCA - Toxic Substances Control Act. TRIS - Toxic Chemical Release Inventory System. SSTS - Section 7 Tracking Systems. RAATS - RCRA Administrative Action Tracking System. PRP - Potentially Responsible Parties. PADS - PCB Activity Database System. ICIS - Integrated Compliance Information System. FTTS - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act). FTTS INSP - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act). MLTS - Material Licensing Tracking System. RADINFO - Radiation Information Database. BRS - Biennial Reporting System. INDIAN RESERV - Indian Reservations. US AIRS (AFS) - Aerometric Information Retrieval System Facility Subsystem (AFS). US AIRS MINOR - Air Facility System Data. FINDS - Facility Index System/Facility Registry System. DOD - Department of Defense Sites. DRY WELLS - Drywell Registration.

Database Sources

NPL: EPA

Updated Quarterly

NPL Delisted: EPA

Updated Quarterly

CERCLIS: EPA

Updated Quarterly

NFRAP: EPA

Updated Quarterly

RCRA COR ACT: EPA

Updated Quarterly

RCRA TSD: Environmental Protection Agency

Updated Quarterly

RCRA GEN: Environmental Protection Agency

Updated Quarterly

Federal IC / EC: Environmental Protection Agency

Varies

ERNS: National Response Center, United States Coast Guard

Updated Quarterly

State/Tribal NPL: Department of Environmental Quality

Varies

State/Tribal CERCLIS: Department of Environmental Quality

No Update Planned

State/Tribal SWL: Department of Environmental Quality

Varies

State/Tribal LTANKS: Department of Environmental Quality

Updated Semi-Annually

Database Sources

State/Tribal Tanks: Department of Environmental Quality

Updated Annually

State/Tribal IC / EC: Department of Environmental Quality

Varies

State/Tribal VCP: Department of Environmental Quality

Varies

ST/Tribal Brownfields: Department of Environmental Quality

Varies

US Brownfields: Environmental Protection Agency

Updated Semi-Annually

Other Haz Sites: Drug Enforcement Administration

Updated Quarterly

Spills: U.S. Department of Transportation

Updated Quarterly

Other: Environmental Protection Agency

Updated Quarterly

Street Name Report for Streets near the Target Property

Target Property: HUNT HIGHWAY & 25
SAN TAN VALLEY, AZ 85143

JOB: 18-017

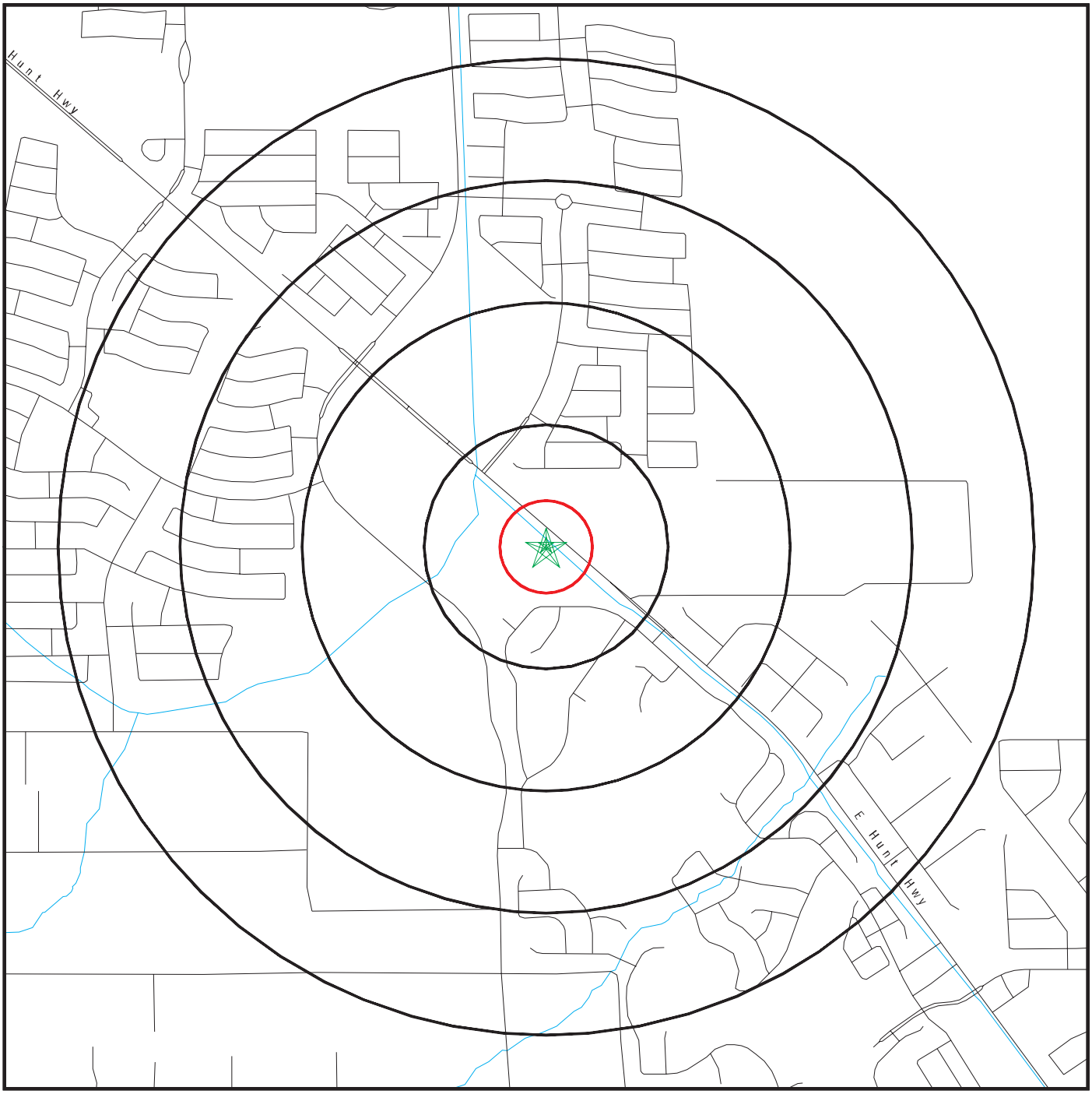
Street Name	Dist/Dir	Street Name	Dist/Dir
Desert Sky Ln	0.24 North		
E Hunt Hwy	0.20 ESE		
N Dog Leg Ct	0.13 SSE		
N Echo Canyon Rd	0.22 SE		
N Gary Rd	0.22 SW		
N Larkspur Dr	0.13 South		
N Quarry Hills Dr	0.22 NE		
N Sandstone Dr	0.16 North		
N Stone Creek Dr	0.20 NW		
W Cutleaf Cir	0.17 SSW		
W Desert Hills Dr	0.21 North		
W Desert Seasons Dr	0.16 North		
W Hunt Hwy	0.03 NE		
W Locklin Ave	0.20 ESE		
W Twin Peaks Pkwy	0.12 South		

Environmental FirstSearch

1.000 Mile Radius

ASTM MAP: NPL, RCRACOR, STATES Sites

HUNT HIGHWAY & 25 SAN TAN VALLEY, AZ 85143



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

Target Property (Latitude: 33.174336 Longitude: 111.578194)

Identified Sites

National Priority List Sites

Indian Reservations BIA

DOD Sites: AZ DEQ

Water Quality Assurance Revolving Fund Areas

Areas of Concern

EDR Reference Code (EDR internal use only): 5408529.2s

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18-08-28.18:58:33.Tue

Environmental FirstSearch

0.500 Mile Radius

ASTM MAP: CERCLIS, RCRATSD, LUST, SWL

HUNT HIGHWAY & 25 SAN TAN VALLEY, AZ 85143

Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

★ Target Property (Latitude: 33.174336 Longitude: 111.578194)

▲ Identified Sites

National Priority List Sites

Indian Reservations BIA

DOD Sites: AZ DEQ

Water Quality Assurance Revolving Fund Areas

Areas of Concern

EDR Reference Code (EDR internal use only): 5408529.2s
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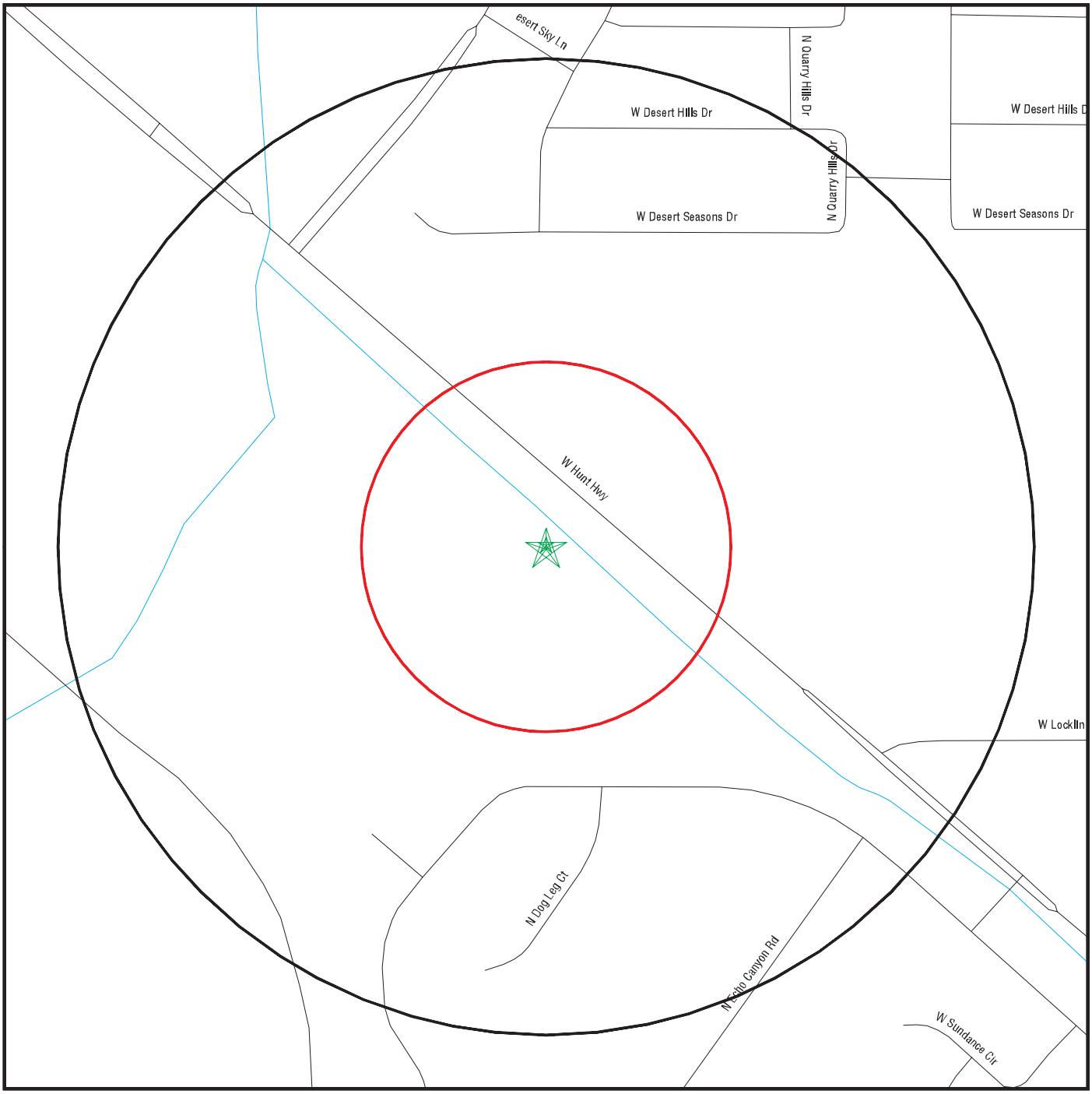
18-08-28.18:59:08.Tue

Environmental FirstSearch

0.25 Mile Radius

ASTM MAP: RCRAGEN, ERNS, UST, FED IC/EC, METH LABS

HUNT HIGHWAY & 25 SAN TAN VALLEY, AZ 85143



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

★ Target Property (Latitude: 33.174336 Longitude: 111.578194)

▲ Identified Sites

National Priority List Sites

Indian Reservations BIA

DOD Sites: AZ DEQ

Water Quality Assurance Revolving Fund Areas

Areas of Concern

EDR Reference Code (EDR Internal use only): 5408529.2s

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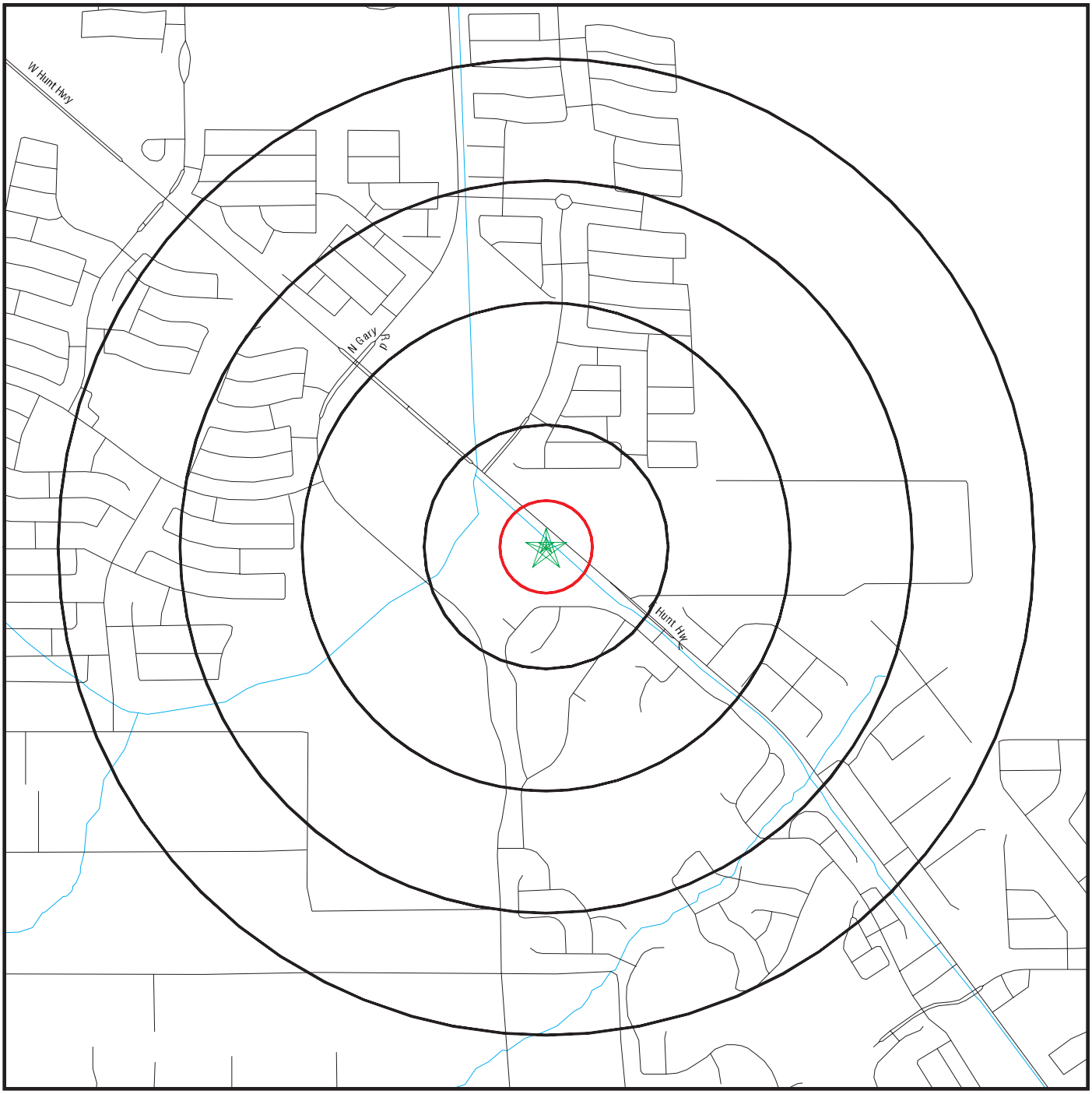
18-08-28.18:59:34.Tue

Environmental FirstSearch

1.000 Mile Radius

Non ASTM Map, Spills, FINDS

HUNT HIGHWAY & 25 SAN TAN VALLEY, AZ 85143



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

- Target Property (Latitude: 33.174336 Longitude: 111.578194)
- Identified Sites
- Sensitive Receptors
- National Priority List Sites
- Indian Reservations BIA
- DOD Sites: AZ DEQ
- Water Quality Assurance Revolving Fund Areas
- Areas of Concern

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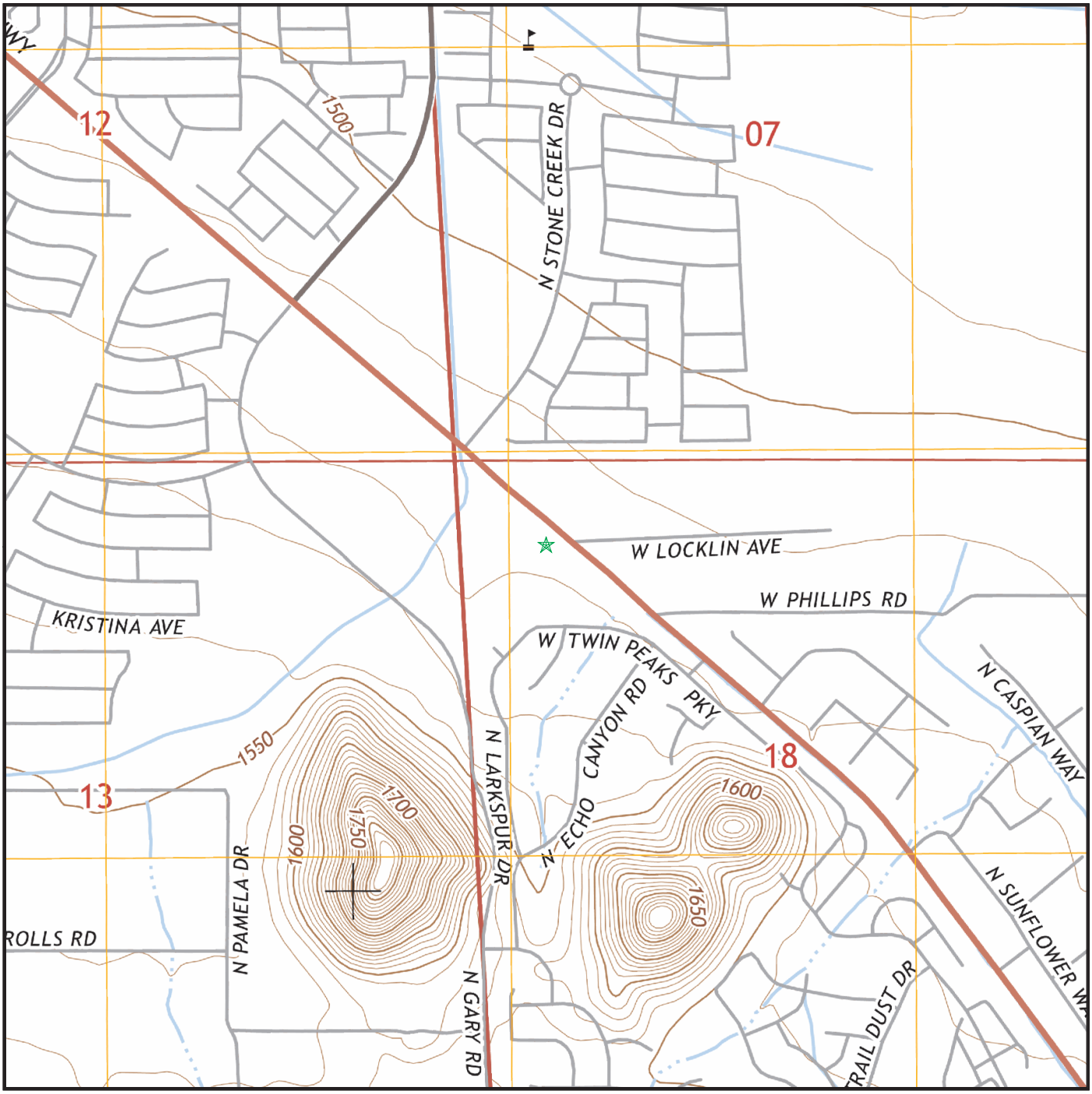
18-08-28.18:59:53.Tue

Site location Map

Topo: 0.75 Mile Radius

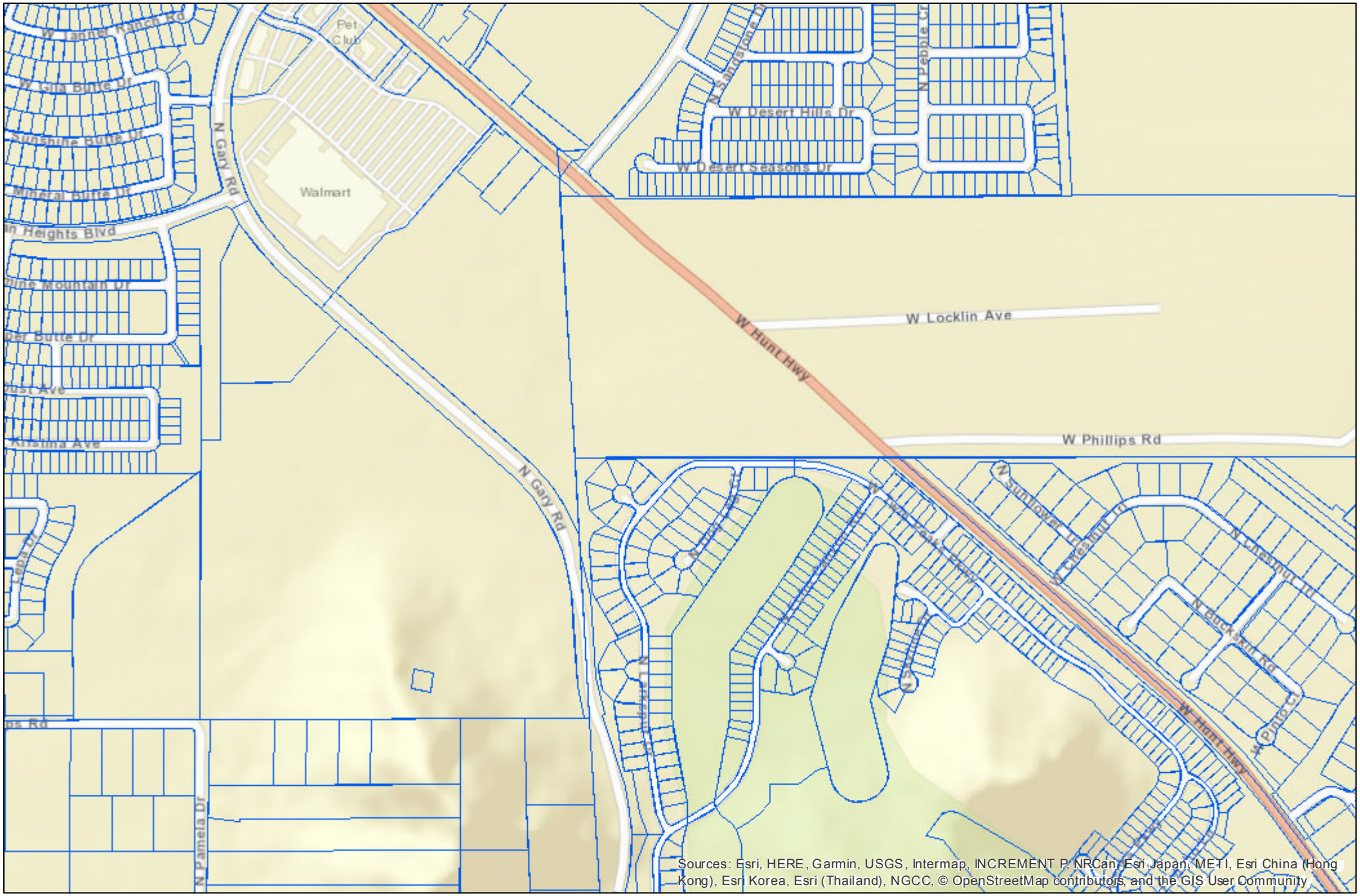
HUNT HIGHWAY & 25 SAN TAN VALLEY, AZ 85143



Map Image Position: TP
Map Reference Code & Name: 6718071 Sacaton NE
Map State(s): AZ
Version Date: 2014

APPENDIX B

Pinal County Assessor Parcel Viewer · *Assessor Douglas J. Wolf*



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community

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APPENDIX C

BURGE & ASSOCIATES, INC.

STATEMENT OF QUALIFICATIONS
ENVIRONMENTAL SITES ASSESSMENTS
AND CHEMICAL & HAZARDOUS SUBSTANCE
CONSULTING SERVICES

6100 SOUTH MAPLE AVENUE, SUITE 114 • TEMPE, ARIZONA 85283 • VOICE (480) 968-5141 • FAX (480) 345-7633

INTRODUCTION TO BURGE & ASSOCIATES, INC.

This Statement of Qualifications (SOQ) has been prepared to introduce you to the quality and scope of professional technical services offered by Burge & Associates, Inc., for Phase I Environmental Site Assessments (ESAs), Phase II investigations and Phase III remediations.

WHAT MAKES US UNIQUE

- Burge & Associates has performed over 700 Site Assessments in the Southwest.
- We strive to provide a fast turn-around on all Phase I ESAs.
- Our reports conform to highest professional standards. Site Photographs and aerial photographs are provided when appropriate.
- AHERA certified asbestos inspector and management planner available.
- When possible, a walk-through inspection of a property is conducted prior to an ESA bid, assuring a complete assessment at the fairest cost.
- The investment for our service is very competitive in the market place.
- Our staff of chemists and registered geologists are experienced chemical and hazardous substance consultants.

BURGE & ASSOCIATES, INC.

ADDITIONAL SERVICES OFFERED

- **UNDERGROUND STORAGE TANKS**

  Closures
  Investigations
  Remediations
  Consulting on leak detection and upgrading

- **AIR QUALITY SAMPLING AND ANALYSIS**

- **GROUNDWATER MONITORING**

  Design and implementation of monitoring programs
  Design of sampling and monitoring instrumentation

- **REMEDIATION OF HAZARDOUS WASTE**

  Stabilization/solidification of inorganics, organics
  Design of sorptive medias to remove chemicals from air or water
  Bioremediation of petroleum contaminated soils

- **STORM WATER AND SPILL PREVENTION**

  Storm Water Pollution Prevention Plans (SWPPPs)
  Spill Prevention, Control and Countermeasures (SPCC) Plans
  Aquifer Protection Permits

- **RESEARCH AND DEVELOPMENT**

Burge & Associates, Inc., was awarded a Small Business Innovative Research (SBIR) Grant by the U.S. Air Force for the development of a real-time ground-water sampling system for volatile organic compounds.

Burge & Associates, Inc., is a consultant to Lawrence-Livermore National Laboratories (U.S. Department of Energy for the development and testing of a real-time ground-water sampling/analytical system for the analysis of Trichloroethene and other chlorinated compounds.

Innovative Instrumentation capable of fully automated, remote monitoring has been developed and successfully deployed.

Since 1988, Burge & Associates, Inc., has served many industrial, governmental and private sector clients in the southwest. A partial list of clients include:

Arizona Department of Public Safety
Arnett Transportation
ASARCO Incorporated
AT&T
Automotive Investment Group
Bank One
Bashas
Berge Ford
Browning Ferris Incorporated
Budget Rent-A-Car
Castillo Company
Chapman Chevrolet
City of Chandler
City of Mesa
City of Phoenix
City of Scottsdale
Earnhart Ford
Founders Bank
General American Life
Giant Industries
Gila County
Good Samaritan Health Services
Hensley & Company
Hurley Trucking
I-10 International Trucks
J.I. Case Company
Magma Copper Company
MARCO Crane
Mesa Lutheran Hospital
Motorola, Inc.
Nace Financial
National Car Rental
Pilot Corporation
Pioneer Distributing
Phoenix Fuel Company
Realty Executives
Sahara Oil Company
St. Joseph's Hospital
Sun City Bank
Tempe Crane
Trejo Oil Company
U.S. Recycling

Scott R. Burge, Ph.D.

Education

B.S. Chemistry (1978)	Arizona State University
Ph.D. Analytical Chemistry (1982)	Arizona State University
J.D. Law (1984)	Arizona State University

Military Service

Underwater Demolition Team 11 (UDT-11) 1971-1975
(Note: UDT-11 renamed to SEAL Team 5): Duties included Sky Lab Recovery Team and two deployments to western Pacific (Vietnam).

State and Local Boards and Commissions

American Chemical Society, Chairman, Central Arizona Section (2004)

Commission on the Arizona Environment (1985-1991): Appointed by Governor of Arizona

Advisory Committee on Financial Responsibility for Underground Storage Tanks, Committee authorized by Laws 1989, HB. 2273, Chapter 201, Appointed by President of Senate

Study Committee on Greensfield Pilot Program, Laws 1997, Chapter 296, appointed by Speaker of the House

US Environmental Protection Agency Committee on External Leak Detection, University of Nevada-Las Vegas, July 1988

Rio Salado Citizens Advisory Commission (1978-2000), Appointed By the Mayor of Tempe

Tempe Municipal Arts Commission (2001-present), appointed by Mayor of Tempe

Tempe Sister Cities (1998-present), Board Member

Maricopa Audubon Society, President (1978-1982, 1998-2002)

Professional Experience

Burge Environmental **1995-Present**
Tempe, Arizona
President

Burge & Associates **1989-Present**
Tempe, Arizona
President

Geraghty & Miller **1988-1989**
Phoenix, Arizona
Senior Scientist

Western Technologies **1988**
Phoenix, Arizona
Director, Environmental Engineering

Western Technologies **1987**
Phoenix, Arizona
Laboratory Director

Dames & Moore **1985-1986**
Phoenix, Arizona
Staff Chemist

The professional experience includes environmental consulting and laboratory analysis. Laboratory experience includes directing two environmental laboratories and construction of laboratory facilities and procurement of organic and inorganic instrumentation. The analysis performed includes gas chromatography, GC/MS, atomic absorption, atomic emission and liquid chromatography. Operation and financial management of three small corporations: Burge & Associates (environmental consulting), and Burge Environmental (chemical instrumentation design and manufacturing).

Research interests include the real-time and/or long-term monitoring of environmental contaminants in surface and ground waters. The sensors developed include UV-visible and electrochemical analysis of various metal ions and volatile organic compounds in surface and ground waters. Burge Environmental provides real-time analytical instrumentation to U.S. Air Force and U.S. Department of Energy with deployment at Edwards Air Force Base (2002-2004), California and the Hanford Site (2004), Washington.

Grants

Small Business Innovative Research (SBIR), US Air Force, Phase I (1991), $42,000

Small Business Innovative Research (SBIR), US Air Force, Phase II (1993), $491,000

Small Business Innovative Research (SBIR), Dept of Energy, Phase I (2000), $100,000

USAID Grant, Department of State, Consulting with Municipality of Veles, Macedonia (2002), $70,000

Advanced Monitoring Systems Initiative (AMSI), U.S. Department of Energy (2004), $85,000

Patents

U.S. Patent 4,717,473	Apparatus for Time-average or Composite Sampling Chemicals in Ground Water
U.S. Patent 5,147,561	Device for In-situ Stripping of Volatile Chemicals from Ground water for the Purposes of Analytical Measurements
U.S. Patent 5,293,934	Ground-water Sampling Unit having a Fluid Seal
U.S. Patent 5,708,220	Liquid Sampling Device and Method
U.S Patent 6,322,751	Optrode for the Detection of Volatile Chemicals
Patent Pending	Simplified Analytical Apparatus for Field Deployable Measurement of Molecular Absorbance and Florescence
Patent Pending	Colorimetric Determination of Anthrax Bacillus using a Modified Fujiwara Reaction
Patent Pending	Automated Ground-Water Sampling using a Motorized Vehicle for the Collection and/or Analysis of Samples
Patent Pending	Automated Monitoring System for the Collection and Analysis of Volatile Compounds

Professional Papers

Burge, S.R. and Hoffman, D.A., Automated Monitoring of Chloroform and Trichloroethene Using a Halocarbon-specific Electrode, American Laboratory, Vol.35, No. 23, November 2003, pg. 24

Burge, S.R., D.A. Hoffman, Hartman, M.J. and R.J. Venedam, Automated Ground-water Sampling and Analysis of Hexavalent Chromium using a "Universal" Sampling/Analytical System, Sensors, 5, pg 38-59 (2005)

Burge, S.R. and J. May, Automated Ground Water Sampling and Analysis of Trichloroethene using a "Universal" Sampling/Analytical System, Ground Water Monitoring & Remediation, 25, No.1, Winter 2005, Pg 113-122.

Burge, S.R. Automated Analysis of Trichloroethene and Chloroform, Proceedings of the 9th International Conference on Environmental Remediation and Radioactive Waste Management, Oxford, England (2003)

Conferences

Papers presented at Chemical and Environmental Conferences on atomic spectroscopy, optrode design and real-time monitoring of inorganic and volatile organic compounds.

Time-Averaged or Composite Sampler for Chemicals in Ground Water, Third National Outdoor Action Conference (May 22, 1989), Orlando, Florida

Real-time Sampling and Analysis of Volatile Chlorinated Compounds in Ground Water, Pittcon 93, March 10, 1993, Atlanta, Georgia

Real-Time Analysis of Trichloroethene in Ground Water, Pittcon, Orlando, Florida. March 11, 1999.

Ground water Monitoring System and TCE Optrode Detection System, Third Biennial International Conference on Monitoring and Measurement of the Environment, EnviroAnalysis, May 9, 2000, Ottawa

Optrode Sensor for TCE, 16th Annual Waste Testing and Quality Assurance Symposium, WPI, August 6, 2000, Washington D.C.

Ground-Water Monitoring: Can it be Automated?, 27th Annual Conference of the Federation of Analytical Chemistry & Spectroscopy Societies, FAACS 2000, September 25, 2000, Nashville, Tennessee

Automate Ground-Water Monitor, 2001 International Containment & Remediation Technology Conference and Exhibition, June 12, 2001, Orlando, Florida

"Ground-Water Monitoring: Can it be Automated?, 27th Annual Conference of the Federation of Analytical Chemistry & Spectroscopy Societies, FAACS 2000 (September 25, 2000), Nashville, Tennessee

"Automated Ground-Water Monitor", 2001 International Containment & Remediation Technology Conference and Exhibition (June 12, 2001), Orlando, Florida

"Automation of Field deployed Sensors for Long-Term Monitoring", Pittcon, New Orleans, La, (March 18, 2002)

"Multiple-Sensor, Long-Term Monitoring System for Environmental Contaminants", S.R. Burge and R.G. Burge, 223rd ACS National Meeting, Orlando, Florida (April 12, 2002)

"Multi-Sensor, Long-Term Monitoring System for Volatile Organic Compounds" S.R. Burge, 3rd International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterrey, CA (May 23, 2002)

"Results of two Field Deployments: South Indian Bend Wash CERCLA site and Edwards Air Force Base", S.R. Burge, 5th Annual Cal Certified Unified Program Agency, Anaheim, California, (February 5, 2003)

"Automated Analysis of Trichloroethene and Chloroform", 9th International Conference of Environmental Remediation and Radioactive Waste Management, Oxford, England (September 25, 2003)

"Automated Analysis of Chromium (VI) for Long-Term Monitoring of Ground and Surface Waters", Pittcon, Chicago, Ill., (March 12, 2004)

"Automated Analysis of Chromium (VI) for Long-Term Monitoring of Ground and Surface Waters" Accelerating Site Closeout, Improving Performance and Reducing Costs through Optimization, Dallas, Texas (June 15, 2004)