Approximate 20 Acre Tract
SWC of Hillcrest & South McLean
Durant, Bryan County, OK
March 26, 2021

Terracon Project No. 03217053



Prepared for: City of Durant, OK Durant, Oklahoma

Prepared by:

Terracon Consultants, Inc. Oklahoma City, Oklahoma

terracon.com



Environmental Facilities Geotechnical Materials

March 26, 2021



City of Durant, OK 300 W. Evergreen Street Durant, OK 74701

Attn: Ms. Lisa Taylor, PCED

P: (580) 931-6712 E: ltaylor@durant.org

Re: Phase I Environmental Site Assessment

Approximate 20 Acre Tract

SWC of Hillcrest & South McLean Durant, Bryan County, Oklahoma Terracon Project No. 03217053

Dear Ms. Taylor, PCED:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Phase I Environmental Site Assessment (ESA) report for the above-referenced site. This assessment was performed in accordance with Terracon Proposal No. P03217053 dated March 15, 2021.

We appreciate the opportunity to be of service to you on this project. In addition to Phase I services, our professionals provide geotechnical, environmental, construction materials, and facilities services on a wide variety of projects locally, regionally and nationally. For more detailed information on all of Terracon's services please visit our website at www.terracon.com. If there are any questions regarding this report or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,

Terracon Consultants, Inc.

Viour Moly Philip D. Wood

Victoria R. Jolly Philip D. Wood Field Scientist Senior Engineer

Attachments



Terracon Consultants Inc. 4701 N Stiles Ave Oklahoma City, OK 73105-3330

P 405-525-0453 F 405-557-0549 terracon.com

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EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was performed in accordance with Terracon Proposal No. P03217053 dated March 15, 2021 and was conducted consistent with the procedures included in ASTM E1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The ESA was conducted under the supervision or responsible charge of, Philip D. Wood Environmental Professional. Hunter D. Baskett performed the site reconnaissance on March 23, 2021.

Findings and Opinions

A summary of findings is provided below. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

Site Description and Use

The site, located at the southwest corner of the intersection of Hillcrest Avenue and S McLean Drive in Durant, Bryan County, Oklahoma, is an approximate 20-acre tract of land owned by Don Singleton. The site is primarily vacant and grassed land with two storage sheds on the northwest portion. An intermittent creek which runs north-south through the center of the site. The site has no daily or consistent operations.

Historical Information

The site was historically vacant land with a residence, associated outbuildings, and a barn on the western portion of the site as early as 1948. By 1955, the residence was improved with four outbuildings and the barn area was improved with an outbuilding. The eastern portion of the site was vacant land. The site remained relatively similar until 1995, by which time the barn and outbuilding were no longer present on the site. Until at least 2017, the residence and two outbuildings were still present. The residence was demolished in 2020 and was no longer present on-site during site reconnaissance. The site is currently developed with two storage shed outbuildings on the northwestern portion of the site.

The adjoining properties were historically developed with private residences to the north, east, and west in 1948. The south adjoining property was agricultural land. Residential development gradually continued to the north, east, and west through the 1980's. Since 1980, the east adjoining properties were developed with three private residences, outbuildings, and agricultural land and since 1995, the north adjoining properties have been developed with multiple residences across Hillcrest Ave and S McLean Drive. By 2017, the property to the west was developed with one structure on primarily vacant land with a pond. The south adjoining property has remained agricultural land since 1948.

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Records Review

Selected federal and state environmental regulatory databases, as well as responses from state and local regulatory agencies were reviewed. The site was not identified in the regulatory databases or local agency records. No additional or nearby facilities were identified in the regulatory databases. A review of records did not identify any RECs in connection with the site at this time.

Site Reconnaissance

During the site reconnaissance, multiple pole-mounted transformers, an abandoned shed, and a creek were observed on the site. Based on visual observations during the site reconnaissance, RECs were not identified in connection with the site.

Adjoining Properties

The adjoining properties were observed to consist of private residences to the north, a private residence and agricultural land to the east, and agricultural land to the south and west. No RECs were observed in association with the adjoining properties.

Significant Data Gaps

No significant data gaps were identified.

Conclusions

We have performed a Phase I ESA consistent with the procedures included in ASTM Practice E 1527-13 at SWC of Hillcrest & South McLean, Durant, Bryan County, Oklahoma, the site. Recognized Environmental Conditions (RECs) or Controlled RECs (CREC) were not identified in connection with the site.

Recommendations

Based on the scope of services, limitations, and conclusions of this assessment, Terracon did not identify RECs or CRECs. As such, no additional investigation is warranted at this time. However, due to the on-site dry gas well, it is possible or even likely that unidentified flow lines or other oil and gas related activities such as buried pits may be in the area. If these are as identified during future development, the lines, any equipment and associated soil impacts should be removed according to applicable regulations. Terracon should be contacted if any equipment or impacts are noted.

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1.0 INTRODUCTION

1.1 Site Description

Site Name	Approximate 20 Acre Tract	
Site Location/Address	SWC of Hillcrest & South McLean, Durant, Bryan County, Oklahoma	
Land Area	Approximately 20 acres	
Site Improvements	Vacant land with two abandoned sheds	
Anticipated Future Site Use	Industrial Park	
Purpose of the ESA	Acquiring the site	

The location of the site is depicted on Exhibit 1 of Appendix A, which was reproduced from a portion of the USGS 7.5-minute series topographic map. The site and adjoining properties are depicted on the Site Diagram, which is included as Exhibit 2 of Appendix A. Acronyms and terms used in this report are described in Appendix F.

1.2 Scope of Services

This Phase I ESA was performed in accordance with Terracon Proposal No. P03217053 dated March 15, 2021 and was conducted consistent with the procedures included in ASTM E1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The purpose of this ESA was to assist the client in developing information to identify RECs in connection with the site as reflected by the scope of this report. This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, interviews, including local government inquiries, as applicable, and a visual noninvasive reconnaissance of the site and adjoining properties. Limitations, ASTM deviations, and significant data gaps (if identified) are noted in the applicable sections of the report.

ASTM E1527-13 contains a new definition of "migrate/migration," which refers to "the movement of hazardous substances or petroleum products in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface." By including this explicit reference to migration in ASTM E1527-13, the Standard clarifies that the potential for vapor migration should be addressed as part of a Phase I ESA. This Phase I ESA has considered vapor migration in evaluation of RECs associated with the site.

1.3 Standard of Care

This ESA was performed in accordance with generally accepted practices of this profession, undertaken in similar studies at the same time and in the same geographical area. We have endeavored to meet this standard of care, but may be limited by conditions encountered during

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performance, a client-driven scope of work, or inability to review information not received by the report date. Where appropriate, these limitations are discussed in the text of the report, and an evaluation of their significance with respect to our findings has been conducted.

Phase I ESAs, such as the one performed at this site, are of limited scope, are noninvasive, and cannot eliminate the potential that hazardous, toxic, or petroleum substances are present or have been released at the site beyond what is identified by the limited scope of this ESA. In conducting the limited scope of services described herein, certain sources of information and public records were not reviewed. It should be recognized that environmental concerns may be documented in public records that were not reviewed. No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs. No warranties, express or implied, are intended or made. The limitations herein must be considered when the user of this report formulates opinions as to risks associated with the site or otherwise uses the report for any other purpose. These risks may be further evaluated – but not eliminated – through additional research or assessment. We will, upon request, advise you of additional research or assessment options that may be available and associated costs.

1.4 Additional Scope Limitations, ASTM Deviations and Data Gaps

Based upon the agreed-on scope of services, this ESA did not include subsurface or other invasive assessments, vapor intrusion assessments or indoor air quality assessments (i.e. evaluation of the presence of vapors within a building structure), business environmental risk evaluations, or other services not particularly identified and discussed herein. Credentials of the company (Statement of Qualifications) have not been included in this report but are available upon request. Pertinent documents are referred to in the text of this report, and a separate reference section has not been included. Reasonable attempts were made to obtain information within the scope and time constraints set forth by the client; however, in some instances, information requested is not, or was not, received by the issuance date of the report. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted hereunder. This ESA was further limited by the following:

- Reasonable attempts were made to contact local government officials; however, at the issuance of this report, interviews with local government officials were not performed.
- Historical information was not provided back to 1940. Uses of the site were described only as far back as 1948, at which time the site was depicted as vacant land with two residences on the western portion of the property. At the direction of the client, land title records were not reviewed.

An evaluation of the significance of limitations and missing information with respect to our findings has been conducted, and where appropriate, significant data gaps are identified and discussed in the text of the report. However, it should be recognized that an evaluation of significant data gaps is based on the information available at the time of report issuance, and an evaluation of

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information received after the report issuance date may result in an alteration of our conclusions, recommendations, or opinions. We have no obligation to provide information obtained or discovered by us after the issuance date of the report, or to perform any additional services, regardless of whether the information would affect any conclusions, recommendations, or opinions in the report. This disclaimer specifically applies to any information that has not been provided by the client.

This report represents our service to you as of the report date and constitutes our final document; its text may not be altered after final issuance. Findings in this report are based upon the site's current utilization, information derived from the most recent reconnaissance and from other activities described herein; such information is subject to change. Certain indicators of the presence of hazardous substances or petroleum products may have been latent, inaccessible, unobservable, or not present during the most recent reconnaissance and may subsequently become observable (such as after site renovation or development). Further, these services are not to be construed as legal interpretation or advice.

1.5 Reliance

This ESA report is prepared for the exclusive use and reliance of City of Durant, OK. Use or reliance by any other party is prohibited without the written authorization of City of Durant, OK and Terracon Consultants, Inc. (Terracon).

Reliance on the ESA by the client and all authorized parties will be subject to the terms, conditions and limitations stated in the proposal, ESA report, and Terracon's Agreement for Services. The limitation of liability defined in the Agreement for Services is the aggregate limit of Terracon's liability to the client and all relying parties.

Continued viability of this report is subject to ASTM E1527-13 Sections 4.6 and 4.8. If the ESA will be used by a different user (third party) than the user for whom the ESA was originally prepared, the third party must also satisfy the user's responsibilities in Section 6 of ASTM E1527-13.

1.6 Client Provided Information

Prior to the site visit, Client Representative, client's representative, was asked to provide the following user questionnaire information as described in ASTM E1527-13 Section 6.

Client Questionnaire Responses

Client Questionnaire Item	Client Did Not Respond	Client's Response	
		Yes	No
Specialized Knowledge or Experience that is material to a REC in connection with the site.			Х

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Client Questionnaire Item	Client Did Not		Client's esponse	
	Respond	Yes	No	
Actual Knowledge of Environmental Liens or Activity Use Limitations (AULs) that may encumber the site.			X	
Actual Knowledge of a Lower Purchase Price because contamination is known or believed to be present at the site.			Х	
Commonly Known or Reasonably Ascertainable Information that is material to a REC in connection with the site.			Х	
Obvious Indicators of Contamination at the site.			Х	

Terracon's consideration of the client provided information did not identify RECs. A copy of the questionnaire is included in Appendix C.

2.0 PHYSICAL SETTING

Physical	Setting Information	Source			
	Topography				
Site Elevation	Approximately 650 feet above sea level	USGS Topographic Map, Roberta,			
Topographic Gradient	Sloping towards the northwest	Oklahoma Quadrangle, 2012			
Closest Surface Water	Mineral Bayou, approximately 2,160 feet northwest of the site.	(Appendix A)			
	Soil Characteristics				
Soil Type	Primarily the Bernow-Romia Complex and the Dennis Series				
Description	The Bernow-Romia Complex consists of deep, well drained, moderately permeable soils that formed in mostly loamy sediments on uplands of Cretaceous age. In the vicinity of the site, the Bernow-Romia is a fine sandy loam to sandy clay loam with slopes of three to eight percent. The Dennis series consists of very deep, somewhat poorly drained soils that formed in material weathered from shale of Pennsylvanian age.	Bryan County, OK, USDA-NRCS Web Soil Survey issued May 27, 2020			

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Physical	Setting Information	Source	
Geology/Hydrogeology			
Formation	Woodbine Formation		
Description	Sandstone, brown to tan, fine- to coarse-grained, conglomeratic, ferruginous, moderately to weakly indurated, crossbedded, with interbedded, gray shale and lignite; thickness, about 325 feet. Subdivided into 4 units: Templeton Member, indurated sandstone and shale, about 75 feet thick, erodes to an escarpment; Lewisville Member, mostly shale and weakly indurated sandstone, about 75 feet thick, Red Branch Member, indurated sandstone, shale, and lignite, about 75 feet thick, erodes to an escarpment; basal Dexter Member, sandstone, shale, and lignite, moderately to weakly indurated, about 100 feet thick. Yields only small amounts of water of poor to good quality.	Preliminary Geologic Map of the Tishomingo 30' x 60' Quadrangle and the Oklahoma Part of the Sherman 30' x 60' Quadrangle, Oklahoma, 2013	
Estimated Depth to First Occurrence of Groundwater	Estimated depth to the first occurrence of groundwater is within the first 25 feet of the surface.	Oklahoma Water Resources Board General Viewer http://www.owrb.ok.gov/maps/index.php	
*Hydrogeologic Not known - may be inferred to be parallel to topographic gradient (primarily the northwest).			

^{*} The groundwater flow direction and the depth to shallow, unconfined groundwater, if present, would likely vary depending upon seasonal variations in rainfall and other hydrogeological features. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

3.0 HISTORICAL USE INFORMATION

Terracon reviewed the following historical sources to develop a history of the previous uses of the site and surrounding area, in order to help identify RECs associated with past uses. Copies of selected historical documents are included in Appendix C.

3.1 Historical Topographic Maps, Aerial Photographs, Sanborn Maps

Readily available historical USGS topographic maps, selected historical aerial photographs (at approximately 10 to 15-year intervals) and historical fire insurance maps produced by the Sanborn Map Company were reviewed to evaluate land development and obtain information concerning

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the history of development on and near the site. Reviewed historical topographic maps, aerial photographs and Sanborn maps are summarized below.

Historical fire insurance maps produced by the Sanborn Map Company were requested from EDR to evaluate past uses and relevant characteristics of the site and surrounding properties. Based upon inquiries to the above-listed Sanborn provider, Sanborn maps were not available for the site.

- Aerial photograph: USDA, 1948, scale approximately 1"= 500"
- Aerial photograph: USGS, 1955, scale approximately 1"= 500"
- Topographic map: Durant, Oklahoma, **1958** (1:62,500)
- Aerial photograph: USGS, 1974, scale approximately 1"= 500"
- Topographic map: Roberta and Durant South, Oklahoma, **1980** (1:24,000)
- Aerial photograph: USGS, 1995, scale approximately 1"= 750"
- Aerial photograph: USDA/NAIP, 2006, scale approximately 1"= 500"
- Aerial photograph: USDA/NAIP, 2017, scale approximately 1"= 500"

Historical Maps and Aerial Photographs

Direction	Description		
	1948 : Developed with a private residence, associated outbuildings, and a barn on the western portion of the site. The eastern portion of the site is vacant land with a creek running generally north-south through the property.		
	1955 : Developed with a residence with approximately four outbuildings on the northwestern portion of the site, a barn with approximately one outbuilding on the western-central portion of the site, and vacant land on the eastern portion of the site.		
Site	1958 : Depicted with one structure on the western portion of the site and vacant land on the eastern portion of the site.		
Site	1974 : Developed with a residence with approximately four outbuildings on the northwestern portion of the site, a barn with approximately one outbuilding on the western-central portion of the site, and vacant land on the eastern portion of the site		
	1980 : Depicted with two structures on the western portion of the site and vacant land on the eastern portion of the site.		
	1995-2017 : The barn was no longer visible. The northwestern portion of the site was developed with two existing buildings and one residence. The eastern portion of the site was vacant land.		

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Direction	Description		
	1948-1955 : Developed with multiple private residences and associated outbuildings to the north beyond a roadway corresponding to Hillcrest Ave and agricultural land to the northeast beyond the intersection on Hillcrest Ave and a roadway corresponding to S McLean Drive.		
	1958 : Depicted with six structures across Hillcrest Ave and vacant land beyond the intersection.		
North	1974 : Developed with multiple private residences across Hillcrest Ave and vacant land beyond the intersection		
	1980 : Depicted with seven structures across Hillcrest Ave and vacant land beyond the intersection.		
	1995-2017 : Developed with multiple residences across Hillcrest Ave and multiple residences across the intersection of Hillcrest Ave and S McLean Drive.		
	1948-1974 : Developed with two private residences, associated outbuildings, and agricultural land.		
East	1980-2017 : Developed with three private residences, associated outbuildings, and agricultural land.		
South	1948-2017: Agricultural land		
	1948 : Developed with multiple residences and a farmstead accessed by a driveway on vacant land with a pond.		
	1955 : Developed with a driveway and farmstead with approximately five structures on vacant land with a pond.		
10 /2.24	1958: Depicted with one structure accessed by a driveway on vacant land.		
West	1974 : Developed with a driveway and a farmstead with approximately five structures on vacant land with a pond.		
	1980: Depicted with three structures and a driveway on vacant land.		
	1995-2006 : Developed with two structures and a driveway on vacant land with a pond.		
	2017: Developed with one structure and a driveway on vacant land with a pond.		

3.2 Historical City Directories

The Polk, Moorehead Publishing Co, and EDR Digital Archive city directories used in this study were made available through Environmental Data Resources, Inc. (EDR) (selected years reviewed: 1963-2017) and were reviewed at approximate five-year intervals, if readily available. Street listings were not available prior to 1992. Due to the lack of physical address for the site, the north adjoining property's address of 1226 Hillcrest Ave was used for reference purposes.

Historical City Directories

Direction	Description
Site	No assigned address: No listings

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Direction	Description		
	1118 Hillcrest Ave: Private residence (2010, 2014, 2017)		
	1216 Hillcrest Ave: Private residence (2005, 2010)		
North	1222 Hillcrest Ave: Private residence (1995, 2005, 2010)		
	1226 Hillcrest Ave: No listings		
	1318 Hillcrest Ave: Private residence (1995, 2000, 2005, 2010, 2014)		
East 1503 Hillcrest Ave: Private residence (1992, 2005, 2010, 2014)			
South No assigned addresses: No listings			
West	No assigned addresses: No listings		

3.3 Site Ownership

Based on a review of the title commitment provided by client, the current site owner is Don Singleton. In addition, previous owners identified included Henry Donald Smith, Jr. prior to 2015.

3.4 Title Search

At the direction of the client, a title search was not included as part of the scope of services. Unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

3.5 **Environmental Liens and Activity and Use Limitations**

The EDR regulatory database report included a review of both Federal and State Engineering Control (EC) and Institutional Control (IC) databases. Based on a review of the database report, the site was not listed on the EC or IC databases. Please note that in addition to these federal and state listings, AULs can be recorded at the county and municipal level that may not be listed in the regulatory database report. Environmental lien and activity and use limitation records recorded against the site were not provided by the client. At the direction of the client, performance of a review of these records was not included as part of the scope of services and unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

3.6 Interviews Regarding Current and Historical Site Uses

The following individual was interviewed regarding the current and historical use of the site.

Interviews

Interviewer	Name / Phone #	Title	Date/Time
Victoria Jolly	Don Singleton / 580-775-4499	Site Owner	March 25, 2021 at 1:30PM

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Terracon interviewed Mr. Don Singleton, site owner, following the site reconnaissance. Mr. Singleton indicated that he has been familiar with the site for many year (20+ years) and has owned the site since 2015. Mr. Singleton noted that he was aware of the following:

- Pending environmental litigation: None
- Threatened environmental litigation: None
- Past environmental litigation: None
- Possible violations of environmental laws: None
- Possible environmental liability: None
- Any potential environmental concerns: None

Mr. Singleton indicated that the site was previously developed with a barn on the west-central portion of the site, a residence on the northwestern portion of the site, and the two existing storage sheds. According to Mr. Singleton, the barn was abandoned by at least 2015, and the residence was demolished in 2020.

3.7 Prior Report Review

Terracon requested the client provide any previous environmental reports, permits, registrations, and geotechnical reports they are aware of for the site. Previous reports were not provided by the client to Terracon for review.

4.0 RECORDS REVIEW

Regulatory database information was provided by EDR, a contract information services company. The purpose of the records review was to identify RECs in connection with the site. Information in this section is subject to the accuracy of the data provided by the information services company and the date at which the information is updated. The scope herein did not include confirmation of facilities listed as "unmappable" by regulatory databases.

In some of the following subsections, the words up-gradient, cross-gradient and down-gradient refer to the topographic gradient in relation to the site. As stated previously, the groundwater flow direction and the depth to shallow groundwater, if present, would likely vary depending upon seasonal variations in rainfall and the depth to the soil/bedrock interface. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

4.1 Federal and State/Tribal Databases

Listed below are the facility listings identified on federal and state/tribal databases within the ASTM-required search distances from the approximate site boundaries. Database definition, descriptions, and the database search report are included in Appendix D.

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Federal Databases

Database	Description	Distance (miles)	Listings
CERCLIS	Comprehensive Environmental Response, Compensation, & Liability Information System	0.5	0
CERCLIS / NFRAP	Comprehensive Environmental Response, Compensation, & Liability Information System/No Further Remedial Action Planned	0.5	0
ERNS	Emergency Response Notification System	Site	0
IC / EC	Institutional Control/Engineering Control	Site	0
NPL	National Priorities List	1	0
NPL (Delisted)	National Priorities Delisted List	0.5	0
RCRA CORRACTS/ TSD	RCRA Corrective Action Activity	1	0
RCRA Generators	Resource Conservation and Recovery Act		0
RCRA Non- CORRACTS/ TSD	RCRA Non-Corrective Action Activity	0.5	0

State/Tribal Databases

Database	Description	Distance (miles)	Listings
Brownfields	Brownfields Sites	0.5	0
IC	Institutional Control Sites	Site	0
LUST	Leaking Underground Storage Tanks	0.5	0
SHWS	State Hazardous Waste Site	1	0
SWF/LF	Solid Waste Facilities/Landfills	0.5	0
UST	Underground Storage Tanks	Site and adjoining properties	0
VCP	Voluntary Cleanup Program	0.5	0

In addition to the above ASTM-required listings, Terracon reviewed other federal, state, local, and proprietary databases provided by the database firm. A list of the additional reviewed databases is included in the regulatory database report included in Appendix D.

Regulated facilities were not listed within the specified search distances from the site.

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4.2 Local Agency Inquiries

Agency Contacted/	
Contact Method	Response
Durant Fire Department / 580-924-8621	At the issuance of this report, a response had not been received from the Durant Fire Department.
Durant City Clerk / 580-931-6641	At the issuance of this report, a response had not been received from the Durant City Clerk, Cynthia Price.
Oklahoma Water Resources Board (OWRB) / www.owrb.maps.arcgis.com/apps/webappviewer	A review of the OWRB General viewer did not indicate the presence of any wells on the site.
Oklahoma Department of Environmental Quality (ODEQ) / https://gis.deq.ok.gov/maps/	A review of the ODEQ GIS Data Viewer facilities did not identify the site in any files or records pertaining to land, air, water, or local data records. Additionally, no adjoining facilities were identified on the ODEQ Data Viewer.
Oklahoma Corporation Commission (OCC) / https://datamining.occ.ok.gov/	A review of the OCC Oil and Gas well database indicated that a well was advanced on the site on May 15, 1992, known as API 3501320076. The well was advanced to 8,250 feet bgs and was dry. Because the well was dry, it was plugged with cement on November 23, 1992. According to well logs, the surface pipe was cut off 3 feet below the ground with an identification plate welded on. The OCC Oil and Gas well database did not indicate the presence of any additional wells within 0.25 miles of the site.
National Pipeline Mapping System (NPMS) / https://pvnpms.phmsa.dot.gov/PublicViewer/	A review of the NPMS Public Viewer website did not indicate the presence of pipelines on the site.

5.0 SITE RECONNAISSANCE

5.1 General Site Information

Information contained in this section is based on a visual reconnaissance conducted while walking through the site and the accessible interior areas of structures, if any, located on the site. The site and adjoining properties are depicted on the Site Diagram, which is included in Exhibit 2 of Appendix A. Photo documentation of the site at the time of the visual reconnaissance is provided in Appendix B. Credentials of the individuals planning and conducting the site visit are included in Appendix E.

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General Site Information

Site Reconnaissance		
Field Personnel	Hunter D. Baskett	
Reconnaissance Date	March 23, 2021	
Weather Conditions	Sunny and clear, 60° F	
Site Contact/Title	Unaccompanied	

Building Description				
Building Identification	Building Use	Approx. Construction Date	Number of Stories	Approx. Size (ft²)
Former Shed #1	Abandoned	Abandoned 1948 1		700
Former Shed #2	Abandoned	1948	1	200
Site Utilities				
Drinking Water	City of Durant			
Wastewater	City of Durant			
Electric	Oklahoma Gas and Electric (OG&E)			
Natural Gas	N/A	N/A		

5.2 **Overview of Current Site Occupants and Operations**

The site, located at the southwest corner of the intersection of Hillcrest Avenue and S McLean Drive in Durant, Bryan County, Oklahoma, is an approximate 20-acre tract of land owned by Don Singleton. The site is primarily vacant and grassed land with an abandoned barn on the northwest portion and creek which runs north-south through the center of the site. The site has no daily or consistent operations.

5.3 **Site Observations**

The following table summarizes site observations and interviews. Affirmative responses (designated by an "X") are discussed in more detail following the table.

Site Characteristics

Category	Item or Feature	Observed or Identified
	Emergency generators	
Site Operations, Processes, and	Elevators	
Equipment	Air compressors	
	Hydraulic lifts	

Approximate 20 Acre Tract Durant, OK March 26, 2021 Terracon Project No. 03217053



Category	egory Item or Feature		
	Dry cleaning		
	Photo processing		
	Ventilation hoods and/or incinerators		
	Waste treatment systems and/or water treatment systems		
	Heating and/or cooling systems		
	Paint booths		
	Sub-grade mechanic pits		
	Wash-down areas or carwashes		
	Pesticide/herbicide production or storage		
	Printing operations		
	Metal finishing (e.g., electroplating, chrome plating, galvanizing, etc.)		
	Salvage operations		
	Oil, gas or mineral production		
	Other processes or equipment		
Aboveground	Aboveground Storage tanks		
Chemical or Waste	emical or Waste Drums, barrels and/or containers ≥ 5 gallons		
Storage	Storage MSDS or SDS		
	Underground storage tanks or ancillary UST equipment		
	Sumps, cisterns, French drains, catch basins and/or dry wells		
Underground	Grease traps		
Chemical or Waste Storage, Drainage	Septic tanks and/or leach fields		
or Collection Systems	Oil/water separators, clarifiers, sand traps, triple traps, interceptors		
	Pipeline markers		
	Interior floor drains		
Electrical Transformers/	Transformers and/or capacitors	X	
PCBs Other equipment			

Approximate 20 Acre Tract Durant, OK March 26, 2021 Terracon Project No. 03217053



Category	Item or Feature	Observed or Identified
	Stressed vegetation	
	Stained soil	
	Stained pavement or similar surface	
	Leachate and/or waste seeps	
Releases or	Trash, debris and/or other waste materials	
Potential Releases	Dumping or disposal areas	
	Construction/demolition debris and/or dumped fill dirt	Х
	Surface water discoloration, odor, sheen, and/or free floating product	
	Strong, pungent or noxious odors	
	Exterior pipe discharges and/or other effluent discharges	
	Surface water bodies	Х
Other Notable Site Features	Quarries or pits	
	Wastewater lagoons	
	Wells	

Electrical Transformers/PCBs

Transformers and/or capacitors

During Terracon's site visit, multiple pole-mounted transformers, owned and serviced by Oklahoma Gas & Electric (OG&E), were observed along the northern boundary of the site; however, no information with regard to PCB content of the transformer fluids was observed. Some transformers contain mineral oil which may contain PCBs.

Oklahoma Gas & Electric (OG&E) maintains responsibility for the transformers, and if the transformers were "PCB contaminated," Oklahoma Gas & Electric (OG&E) is not required to replace the transformer fluids until a release is identified. However, evidence of current or prior releases was not observed in the vicinity of the electrical equipment during the site reconnaissance.

Releases or Potential Releases

Construction/demolition debris and/or dumped fill dirt

An abandoned and partially collapsed former barn was observed on the western portion of the site. The debris from the collapsed shed consisted of planks of wood, corrugated sheet metal, and other building materials. Based upon visual observation of surface materials only, this area appeared to have been abandoned and formerly used for agricultural storage. Based on site observations, the debris from the former barn does not appear to constitute a REC at this time.

Approximate 20 Acre Tract Durant, OK March 26, 2021 Terracon Project No. 03217053



Other Notable Site Features

Surface water bodies

An intermittent creek was observed flowing generally north-south through the center of the site. No chemical sheens were observed on the surface of the waters, and no noxious odors were noted emanating from within the creek at the time of the site reconnaissance.

6.0 ADJOINING PROPERTY RECONNAISSANCE

Visual observations of adjoining properties (from site boundaries) are summarized below.

Adjoining Properties

Direction	Description	
North	Private residences (1118, 1216, 1222, 1226, and 1318 Hillcrest Ave)	
East	Private residence (1503 Hillcrest Ave) and agricultural land (No assigned address)	
South	Agricultural land (No assigned address)	
West	Agricultural land (No assigned address)	

RECs were not observed with the adjoining properties.

7.0 ADDITIONAL SERVICES

Per the agreed scope of services specified in the proposal, additional services (e.g. asbestos sampling, lead-based paint sampling, wetlands evaluation, lead in drinking water testing, radon testing, vapor encroachment screening, etc.) were not conducted.

8.0 DECLARATION

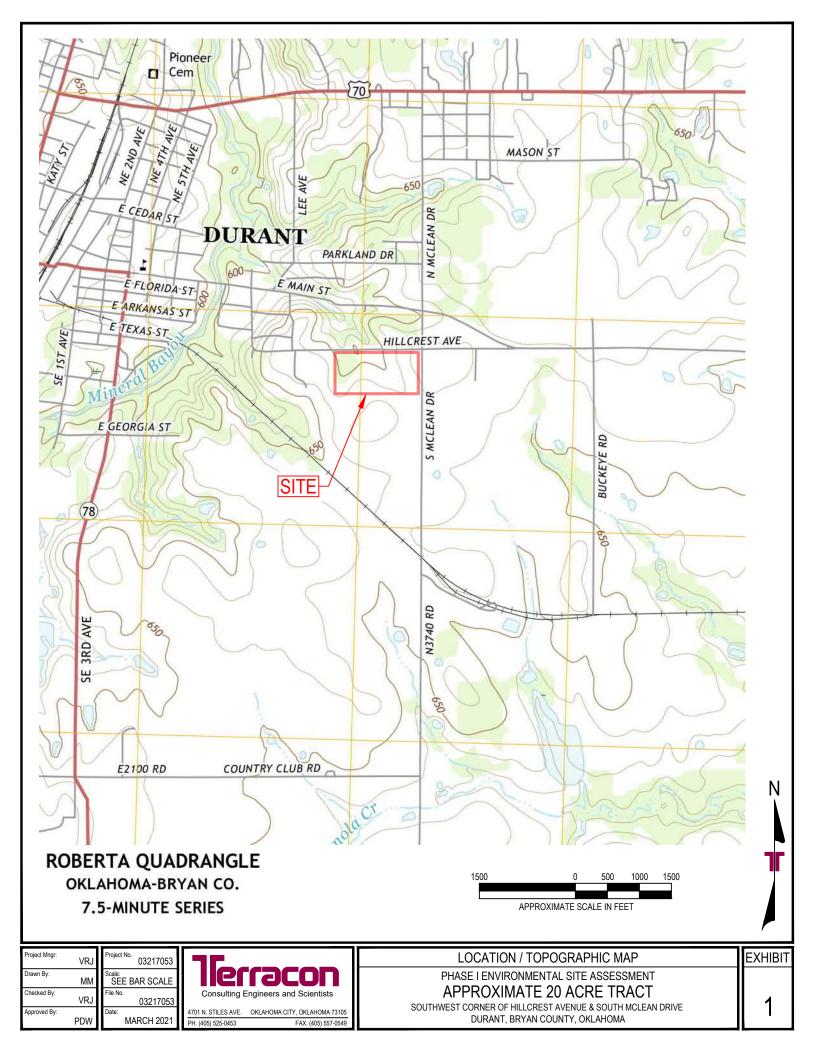
I, Philip D. Wood, declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312; and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the site. I have developed and performed the All Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

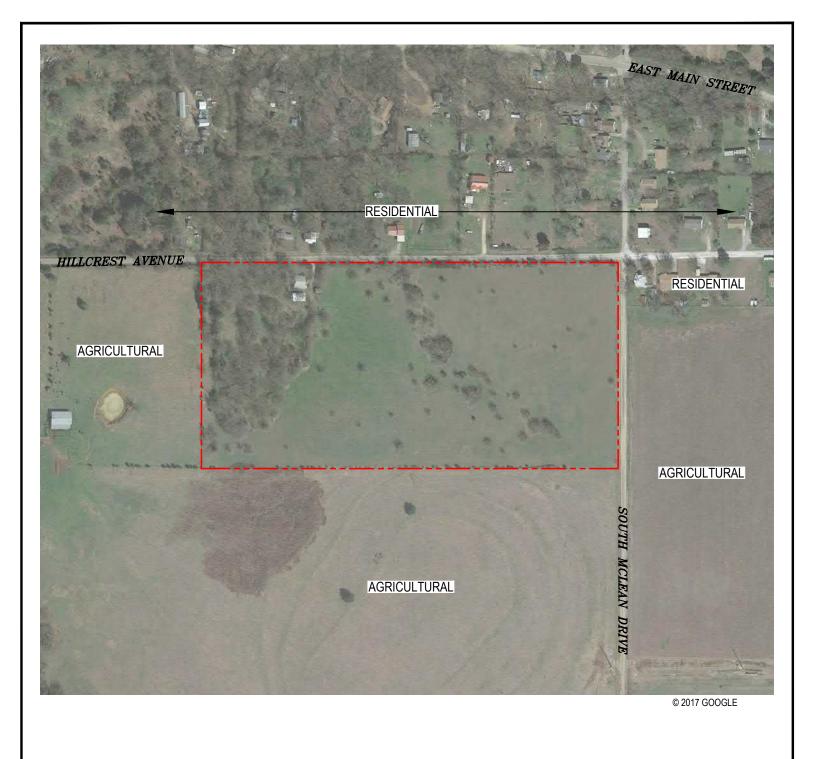
Philip D. Wood

Philip D. Wood

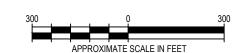
Senior Engineer

APPENDIX A EXHIBIT 1 – TOPOGRAPHIC MAP EXHIBIT 2 – SITE DIAGRAM





APPROXIMATE BOUNDARY OF ASSESSED AREA



\/D I	F
VIXU	L
	S
MM	ı
	F
VRJ	ı
	0
PDW	ı
	VRJ MM VRJ PDW

Project No.	03217053
Scale: SEE B	AR SCALE
File No.	03217053
Date: MA	ARCH 2021



SITE DIAGRAM
PHASE I ENVIRONMENTAL SITE ASSESSMENT
APPROXIMATE 20 ACRE TRACT

SOUTHWEST CORNER OF HILLCREST AVENUE & SOUTH MCLEAN DRIVE DURANT, BRYAN COUNTY, OKLAHOMA

EXHIBIT

2

APPENDIX B SITE PHOTOGRAPHS

Approximate 20 Acre Tract ■ Durant, OK





Photo 1 Overview of the site.



Photo 2 View from the northeast corner of the site facing south.



Photo 3 View from the northeast corner of the site facing north.



Photo 4 View from the southeast corner of the site facing west.



Photo 5 Typical view from the southwest corner of the site facing north.



Photo 6 Typical view from the center of the property facing south.

Approximate 20 Acre Tract ■ Durant, OK





Photo 7 View facing north from the southern portion of the site.



Photo 8 View facing south from the northern boundary of the site.



Photo 9 Overview of the house and shed area on the northwestern portion.



Photo 10 View of the shed near the house.



Photo 11 View of the small house on the northern portion of the site.



Photo 12 View of the fencing around the small house.

Approximate 20 Acre Tract ■ Durant, OK





Photo 13 View of the approximate location of the former on-site residence.



Photo 14 View of former shed debris on the west-central portion of the site.



Photo 15 Typical view of the wooded area on the northwestern portion.



Photo 16 View along the creek facing east.



Photo 17 View of the creek in the center of the site.



Photo 18 View of the intersection of Hillcrest Ave and S McClean from the site.

Approximate 20 Acre Tract ■ Durant, OK





Photo 19 View of the northern entrance to the site off Hillcrest Ave.



Photo 20 Typical view of north adjacent private residences.

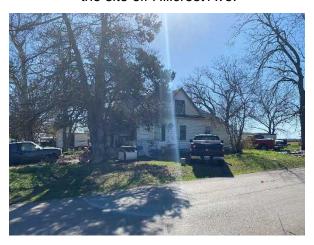


Photo 21 View of the east adjacent private residence beyond S McLean Dr.



Photo 22 View of the east adjacent agricultural land.



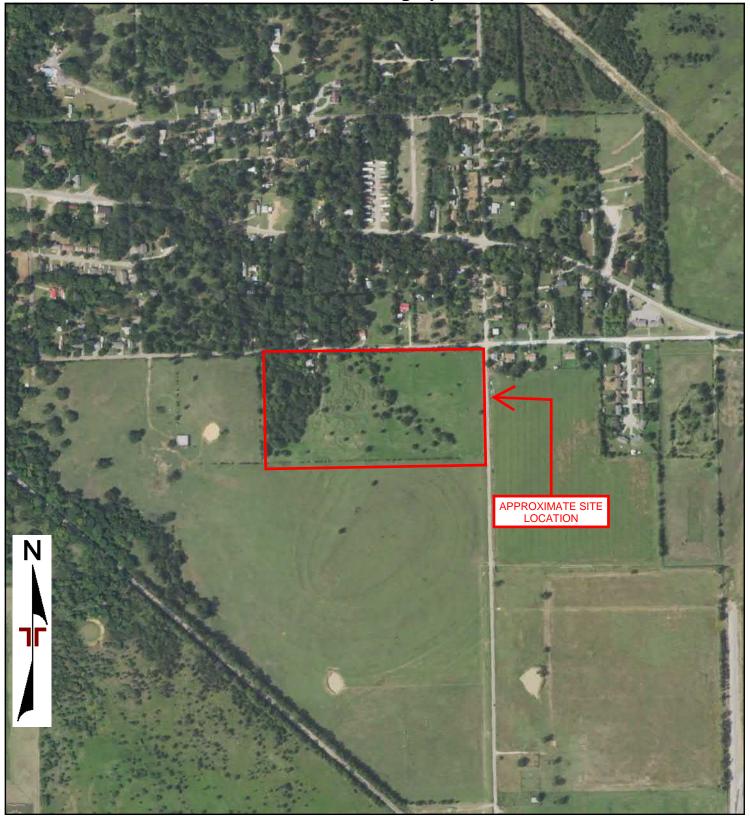
Photo 23 View of the south adjacent agricultural land.



Photo 24 View of the west adjacent agricultural land.

HISTORICAL DOCUMEN	APPENDIX C		ONNAIRE
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Project Manager:	Project No:	
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Approved By:	Date:	

2017

Terracon4701 North Stiles Avenue

Oklahoma City, OK 73105-0000

Approximate 20 Acre Tract SWC of Hillcrest & South Mclean Durant, OK 74701

2017 AERIAL PHOTOGRAPH

Appendix





Project Manager:	Project No:
	03217053
Drawn By:	Scale:
	As Shown
Checked By:	File Name:
Approved By:	Date:

Terracon

4701 North Stiles Avenue Oklahoma City, OK 73105-0000 2006 AERIAL PHOTOGRAPH

Approximate 20 Acre Tract SWC of Hillcrest & South Mclean Durant, OK 74701

С

Appendix





1995

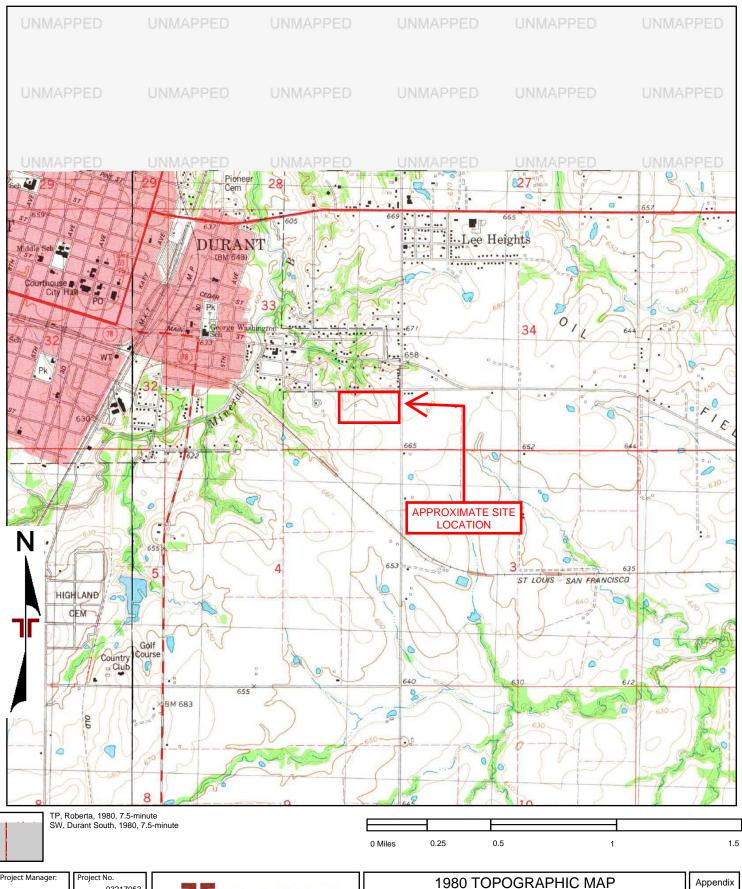
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4701 North Stiles Avenue Oklahoma City, OK 73105-0000 1995 AERIAL PHOTOGRAPH

Approximate 20 Acre Tract SWC of Hillcrest & South Mclean Durant, OK 74701 Appendix

C



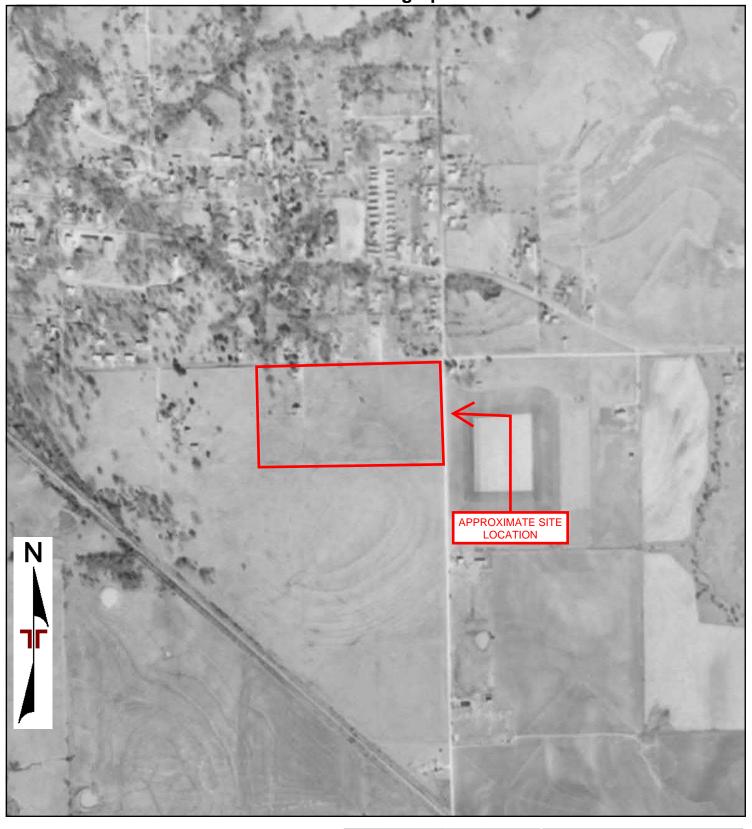


4701 North Stiles Avenue
Oklahoma City, OK 73105-0000

Approximate 20 Acre Tract
SWC of Hillcrest & South Mclean
Durant, OK 74701

С





Project Manager:	Project No:
	03217053
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	As Shown
Checked By:	File Name:
Approved By:	Date:
	1974

Terracon4701 North Stiles Avenue

Oklahoma City, OK 73105-0000

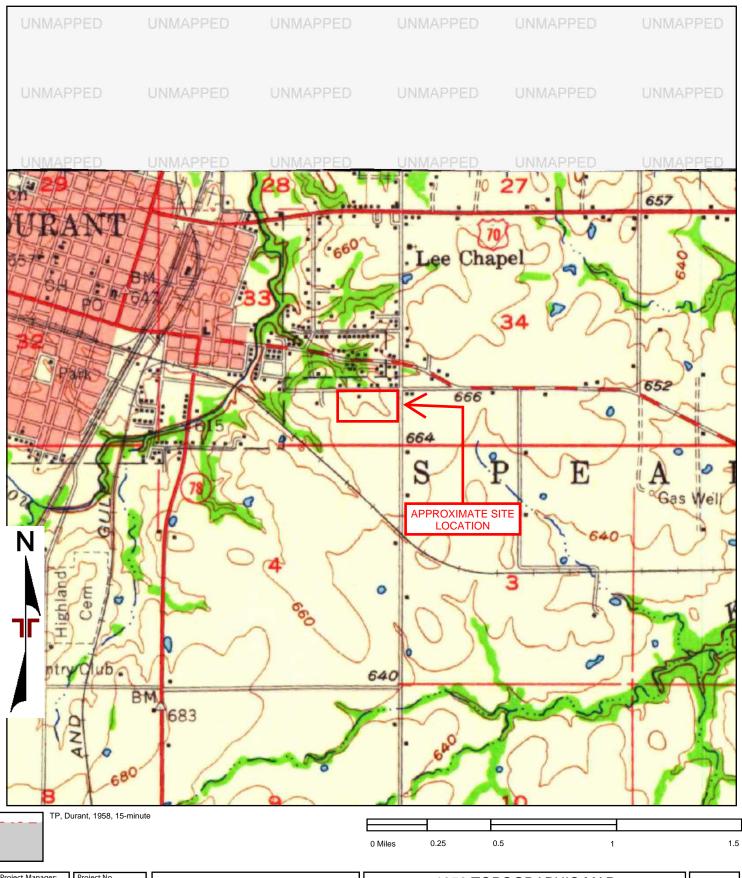
Approximate 20 Acre Tract SWC of Hillcrest & South Mclean Durant, OK 74701

1974 AERIAL PHOTOGRAPH

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Appendix





Project Manager:
Project No.
03217053

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As Shown
File Name:

Approved by:
Date:
1958

4701 North Stiles Avenue
Oklahoma City, OK 73105-0000

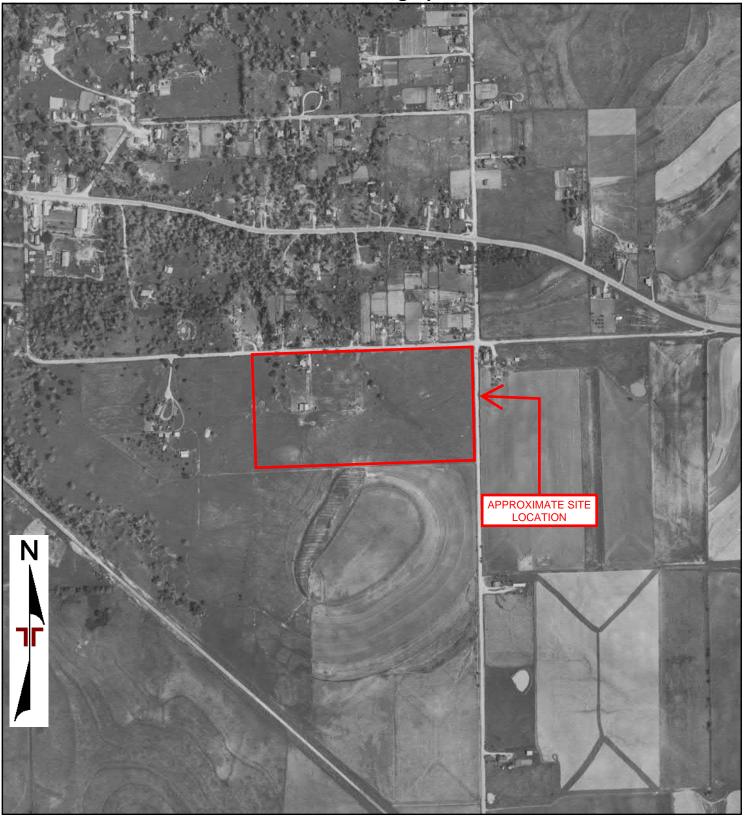
1958 TOPOGRAPHIC MAP
Approximate 20 Acre Tract
SWC of Hillcrest & South Mclean
Durant, OK 74701

Appendix

C



Aerial Photograph



0 Feet 500 1000 2000

Project Manager:	Project No:
	03217053
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	As Shown
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Approved By:	Date:
	1955

lerracon

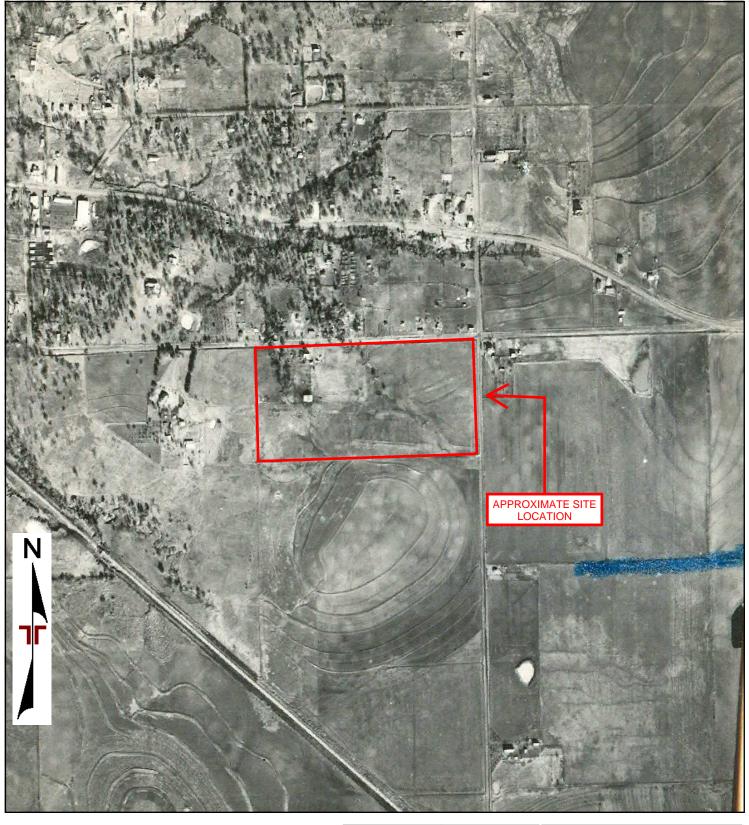
4701 North Stiles Avenue Oklahoma City, OK 73105-0000

1	955	AERIAL	. PHOTOGRAPH	Н

Approximate 20 Acre Tract SWC of Hillcrest & South Mclean Durant, OK 74701 Appendix

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0 Feet 500 1000 2000

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1948

lerracon

4701 North Stiles Avenue Oklahoma City, OK 73105-0000 1948 AERIAL PHOTOGRAPH
Approximate 20 Acre Tract

SWC of Hillcrest & South Mclean
Durant, OK 74701

С

Appendix

2

PERSONAL REPRESENTATIVE'S DEED

KNOW ALL MEN BY THESE PRESENTS:

I-2015-678205 Book 1388 Pg: 957 06/03/2015 9:00 am Pg 0957-0958 Fee: \$15.00 Doc: \$0.00 Tammy Reynolds - Bryan County Clerk State of Oklahoma

Under bequests granted in the Last Will and Testament of Henry Donald Smith, Jr., deceased, as admitted to probate in Case No. PB-2012-80 in the District Court of Bryan County, Oklahoma, the Court entered its Order Allowing Partial Distribution on 4th day of May, 2015, and directed Judy Stephens as Personal Representative of the Estate to execute a proper conveyance to party of the second part, conveying the following described real property to Don Singleton, Party of the Second Part, the property left to him in the Last Will and Testament of Henry Donald Smith, Jr., deceased. Reference is hereby made to the Order Allowing Partial Distribution on file with the District Court Clerk of Bryan County, Oklahoma; and a certified copy of such order was filed for record on the 32 day of June, 2015, in Book 1388 at Page 455 in the office of the County Clerk of Bryan County, Oklahoma.

Now, therefore, party of the first part, pursuant to the Order Allowing Partial Distribution dated May 4, 2015, does hereby grant, bargain, sell and convey unto DON SINGLETON, all the right, title, interest and estate of the decedent, Henry Donald Smith, Jr., at the time of his death, in the following described real property and premises, situate in Bryan County, State of Oklahoma, towit:

N/2 SE/4 SE/4, Section 33, Township 6 South, Range 9 East, Bryan County, Oklahoma; and

Lot 17 in Block 1, Fred Jones Addition, Durant, Bryan County, Oklahoma.

together with all the improvements thereon and the appurtenances thereunto belonging,

To have and to hold said described premises unto the said party of the second part, his heirs and assigns.

Signed and delivered this _____ day of June, 2015.

Personal Representative

STATE OF OKLAHOMA)) ss.
COUNTY OF BRYAN)
	ACKNOWLEDGMENT
day of June, 2015, personally	I, a Notary Public, in and for said County and State, on this appeared JUDY STEPHENS, Personal Representative of the eased, to me known to be the identical person who executed the acknowledged to me that she executed the same as her free and and purposes therein set forth.
WITNESS my hand and Sea	al the day and year last above written.
My Commission Expires: $\frac{10-1-2015}{10000000000000000000000000000000000$	WOTARY PUBLIC PUBLIC OF OKLANING

Proposal for Phase I Environmental Site Assessment

Approximate 20 Acre Tract Durant, OK

March 15, 2021 Terracon Proposal No. P03217053



Person Completing Questionnaire	Name: Usa Taylor Company: Durant Endustrial Authory Email: Itaylor @durant.org						
Site Name	Singleton 20						
Site Address							
Point of Contact for Access	Name: Don Singleton Phone: 580-775-4499 Company: Owner Email: Done						
Access Restrictions or Special Site Requirements?	Company: Owner Email: none No XYes (If yes, please explain) Enter from SouthmcLean						
Confidentiality Requirements?	NoYes (If yes, please explain)						
Current Site Owner	Name: Don and Kathie Singleton Phone: 580-775-4499 Company: owners Email: none						
Current Site Operator	Name: Phone: Email:						
Reasons for ESA (e.g., financing, acquisition, lease, etc.)	acquisition						
Anticipated Future Site Use	Industrial						
Relevant Documents?	Please provide Terracon copies of prior Phase I or II ESAs, Asbestos Surveys, Environmental Permits or Audit documents, Underground Storage Tank documents, Geotechnical Investigations, Site Surveys, Diagrams or Maps, or other relevant reports or documents.						
recorded against the property under fed No Yes (If yes, explain below a 2) Did a search of recorded land title (AULs), such as engineering controls, la	ecords (or judicial records where appropriate) identify any environmental liens filed or leral, tribal, state, or local law (40 CFR 312.25)? and send Terracon a copy of the title records or judicial records reviewed.) records (or judicial records where appropriate) identify any activity and use limitations and use restrictions, or institutional controls that are in place at the property and/or have erty under federal, tribal, state, or local law (40 CFR 312.26)?						
No Yes (If yes, explain below a	and send Terracon a copy of the title records or judicial records reviewed.)						
involved in the same line of business as have specialized knowledge of the cherk No Yes (If yes, explain below)	dge or experience related to the site or nearby properties? For example, are you is the current or former occupants of the site or an adjoining property so that you would micals and processes used by this type of business (40 CFR 312-28)?						
site (40 CFR 312.29)?	lower purchase price because contamination is known or believed to be present at the						
5) Are you aware of commonly known of environmental professional to identify common No Yes (If yes, explain below)	yes or Not applicable, explain below) or reasonably ascertainable information about the site that would help the onditions indicative of releases or threatened releases (40 CFR 312.30)? rience related to the site, are there any obvious indicators that point to the presence or						
likely presence of contamination at the	site (40 CFR 312.31)?						
Comments or explanations: Phase	I is for land acquisition. I have no knowledge property.						
about the	property.						

APPENDIX D ENVIRONMENTAL DATABASE INFORMATION

Approximate 20 Acre Tract SWC of Hillcrest & South Mclean Durant, OK 74701

Inquiry Number: 6413713.2s

March 19, 2021

The EDR Radius Map™ Report with GeoCheck®



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

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Physical Setting Source Map	A-8
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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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MAPPED SITES SUMMARY

Target Property Address: SWC OF HILLCREST & SOUTH MCLEAN DURANT, OK 74701

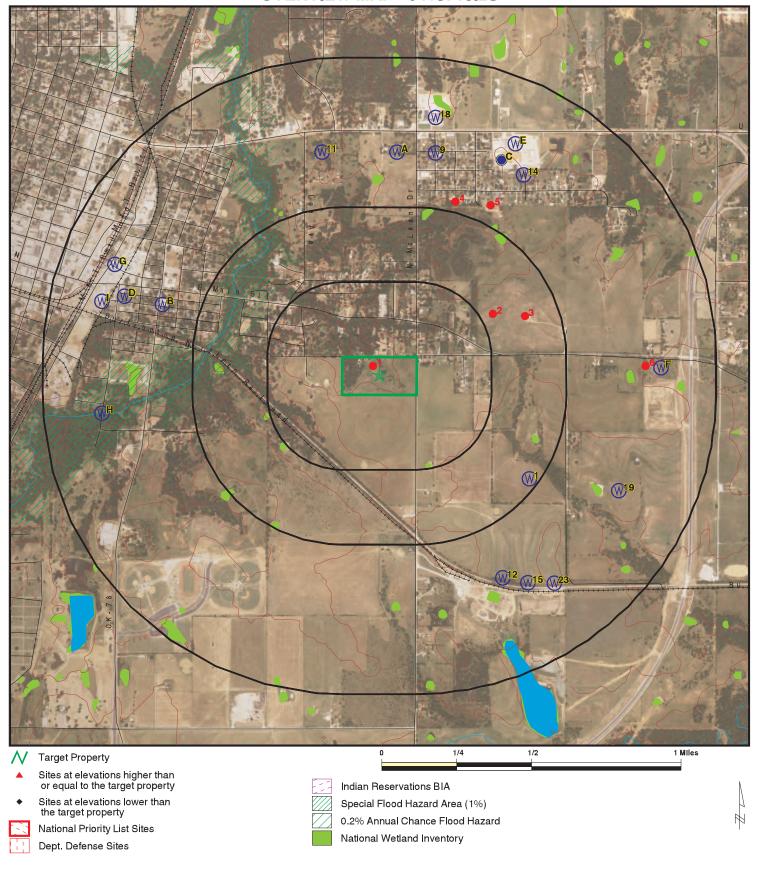
Click on Map ID to see full detail.

MAP RELATIVE DIST (ft. & mi.)

ID SITE NAME ADDRESS DATABASE ACRONYMS ELEVATION DIRECTION

NO MAPPED SITES FOUND

OVERVIEW MAP - 6413713.2S



This report includes Interactive Map Layers to

Approximate 20 Acre Tract SWC of Hillcrest & South Mclean SITE NAME: ADDRESS:

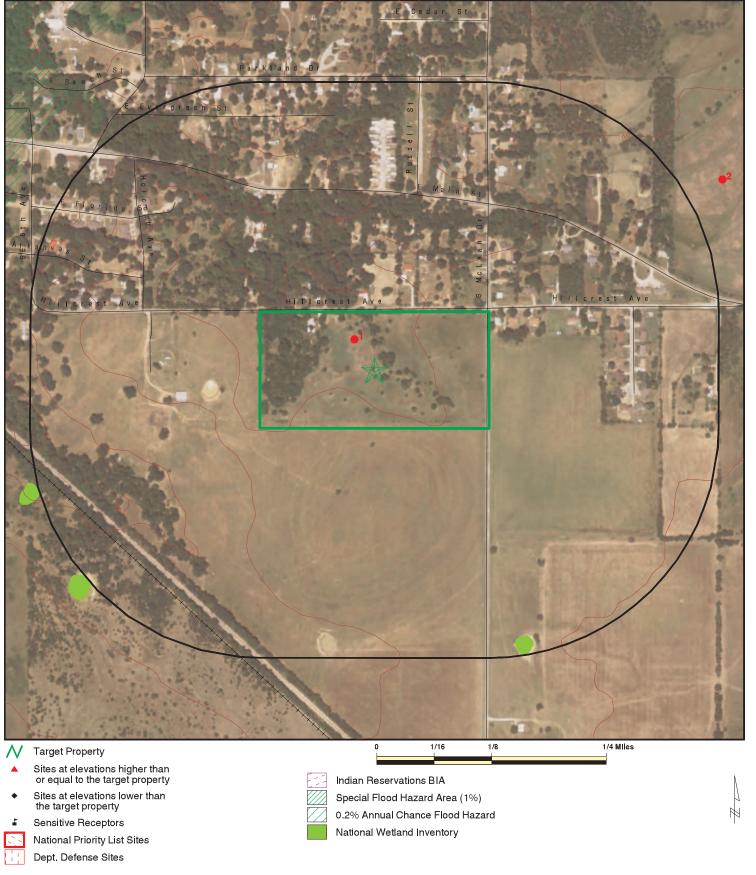
Durant OK 74701 33.985792 / 96.357685 LAT/LONG:

CLIENT: CONTACT: Terracon Victoria Jolly INQUIRY#: 6413713.2s DATE:

March 19, 2021 3:29 pm Copyright © 2021 EDR, Inc. © 2015 TomTom Rel. 2015.

display and/or hide map information. The legend includes only those icons for the default map view.

DETAIL MAP - 6413713.2S



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: Approximate 20 Acre Tract ADDRESS: SWC of Hillcrest & South Mclean

Durant OK 74701 LAT/LONG: 33.985792 / 96.357685 CLIENT: Terracon CONTACT: Victoria Jolly INQUIRY#: 6413713.2s

DATE: March 19, 2021 3:31 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENT	TAL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 TP		0 0 NR	0 0 NR	0 0 NR	0 0 NR	NR NR NR	0 0 0
Federal Delisted NPL sit	e list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Federal CERCLIS NFRA	P site list							
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRAC	TS facilities lis	t						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-COR	RACTS TSD fa	cilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generator	rs list							
RCRA-LQG RCRA-SQG RCRA-VSQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Federal institutional con engineering controls reg								
LUCIS US ENG CONTROLS US INST CONTROLS	0.500 TP 0.500		0 NR 0	0 NR 0	0 NR 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equiva	lent CERCLIS							
SHWS	1.000		0	0	0	0	NR	0
State and tribal landfill a solid waste disposal site								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking	State and tribal leaking storage tank lists							
LUST LAST INDIAN LUST	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
State and tribal registere		k lists						
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST AST INDIAN UST	0.100 0.100 0.250		0 0 0	NR NR 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
State and tribal institutio control / engineering cor		5						
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary	/ cleanup site	s						
INDIAN VCP VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brownfie	lds sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMEN	TAL RECORDS							
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / S Waste Disposal Sites	Solid							
SWRCY INDIAN ODI DEBRIS REGION 9 ODI IHS OPEN DUMPS	TP 0.500 0.500 0.500 0.500		NR 0 0 0 0	NR 0 0 0 0	NR 0 0 0 0	NR NR NR NR NR	NR NR NR NR NR	0 0 0 0
Local Lists of Hazardous Contaminated Sites	waste /							
US HIST CDL US CDL	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Local Lists of Registered	l Storage Tan	ks						
HIST UST	0.100		0	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency R	Release Repor	rts						
HMIRS OK COMPLAINT	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Other Ascertainable Rec	ords							
RCRA NonGen / NLR FUDS DOD SCRD DRYCLEANERS EPA WATCH LIST 2020 COR ACTION	0.250 1.000 1.000 0.500 TP 0.250		0 0 0 0 NR 0	0 0 0 0 NR 0	NR 0 0 0 NR NR	NR 0 0 NR NR NR	NR NR NR NR NR	0 0 0 0 0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	Ö
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP TP		NR NR	NR	NR	NR NR	NR	0 0
RADINFO HIST FTTS	TP		NR NR	NR NR	NR NR	NR NR	NR NR	0
DOT OPS	TP		NR	NR NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	Ö	0	NR	0
UMTRA	0.500		Ő	Ö	Ö	NR	NR	Õ
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	Ö
US AIRS	TP		NR	NR	NR	NR	NR	Ō
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
TIER 2	TP		NR	NR	NR	NR	NR	0
UIC MINES MRDS	TP TP		NR	NR NB	NR	NR NR	NR	0
			NR	NR	NR	INK	NR	0
EDR RECOVERED GOVER	NMENT ARCHI	<u>VES</u>						
Exclusive Recovered G	ovt. Archives							
RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals		0	0	0	0	0	0	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID		MAP FINDINGS		
Direction		7	1	
Distance				EDR ID Number
Elevation	Site		Database(s)	EPA ID Number

NO SITES FOUND

Count: 1 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
DURANT	1011845444	EARTH BIOFUELS PLANT	101 E. MAIN	74701	SEMS-ARCHIVE, PRP

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
OK	AIRS	Permitted AIRS Facility Listing	Department of Environmental Quality	12/17/2020	12/18/2020	03/12/2021
OK	ASBESTOS	Asbestos Notification	Department of Labor	04/01/2020	04/02/2020	03/18/2021
	AST	Aboveground Storage Tanks	Oklahoma Corporation Commission	12/03/2020	12/18/2020	03/09/2021
OK	BROWNFIELDS	Brownfield Sites	Department of Environmental Quality	09/07/2012	09/07/2012	10/10/2012
OK	BROWNFIELDS 2	Brownfields Public Record Listing	Department of Environmental Quality	11/03/2020	11/12/2020	01/28/2021
	DRYCLEANERS	Drycleaner Facilities	Department of Environmental Quality	03/09/2021	03/11/2021	03/18/2021
-	HIST UST	Underground Storage Tank List, List II Version	Oklahoma Corporation Commission	03/21/2003	04/28/2003	05/27/2003
-	INST CONTROL	Institutional Control Sites	Department of Environmental Quality	11/07/2020	11/11/2020	01/28/2021
	LAST	Leaking Aboveground Storage Tanks List	Oklahoma Corporation Commission	12/03/2020	12/18/2020	03/09/2021
-	LUST	Leaking Underground Storage Tank List	Oklahoma Corporation Commission	12/03/2020	12/18/2020	03/09/2021
-	OK COMPLAINT	Oklahoma Complaint System Database	Oklahoma Conservation Commission	06/30/2019	02/13/2020	04/21/2020
-	RGA HWS	Recovered Government Archive State Hazardous Waste Facilitie	Department of Environmental Quality	00/00/2010	07/01/2013	
_	RGA LF	Recovered Government Archive Solid Waste Facilities List	Department of Environmental Quality		07/01/2013	
-	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	Oklahoma Corporation Commission		07/01/2013	12/27/2013
-	SHWS	Voluntary Cleanup & Superfund Site Status Report	Department of Environmental Quality	06/01/2020	08/11/2020	11/02/2020
_	SWF/LF	Permitted Solid Waste Disposal & Processing Facilities	Department of Environmental Quality	12/18/2020	12/21/2020	03/12/2021
	SWRCY	Recycling Facilities	Department of Environmental Quality	07/10/2019	07/17/2019	08/29/2019
-	TIER 2	Tier 2 Data Listing	Department of Environmental Quality	12/31/2019	09/09/2020	12/02/2020
	UIC	Underground Injection Wells Database Listing	Department of Environmental Quality	08/17/2020	10/13/2020	01/04/2021
	UST	Underground Storage Tank Listing	Oklahoma Corporation Commission	12/03/2020	12/18/2020	03/09/2021
	VCP	Voluntary Cleanup Site Inventory	Department of Environmental Quality	07/29/2020	08/11/2020	11/03/2020
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	09/30/2017	05/08/2018	07/20/2018
US	ABANDONED MINES	Abandoned Mines	Department of Interior	12/11/2020	12/11/2020	03/02/2021
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2017	06/22/2020	11/20/2020
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2017	12/01/2020	02/09/2021
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	01/12/2017	03/05/2019	11/11/2019
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	09/30/2020	10/08/2020	01/04/2021
US	CORRACTS	Corrective Action Report	EPA	12/14/2020	12/17/2020	12/22/2020
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	11/03/2020	11/17/2020	02/09/2021
US	DOD	Department of Defense Sites	USGS	12/31/2005	11/11/2020	01/11/2007
US	DOT OPS	Incident and Accident Data	Department of Transporation, Office of Pipeli	01/02/2020	01/28/2020	04/17/2020
US	Delisted NPL	National Priority List Deletions	EPA	12/30/2020	01/26/2020	02/09/2021
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	10/03/2020	10/06/2020	01/04/2021
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	12/14/2020	12/15/2020	12/22/2020
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	04/03/2019	04/05/2019	05/14/2019
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	04/03/2019	04/03/2019	11/06/2019
US	FEMA UST		FEMA	07/21/2020	09/03/2020	11/25/2020
US	FTTS	Underground Storage Tank Listing FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
	FTTS INSP		EPA			
US	FUDS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu		04/09/2009	04/16/2009	05/11/2009
US US		Formerly Used Defense Sites	U.S. Army Corps of Engineers EPA	09/29/2020	11/17/2020	01/25/2021
	FUELS PROGRAM	EPA Fuels Program Registered Listing		11/13/2020	11/13/2020	01/25/2021
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	08/08/2017	09/11/2018	09/14/2018
	HIST FTTS INCD	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
05	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	12/16/2020	12/17/2020	03/12/2021

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Serivces, Indian	04/01/2014	08/06/2014	01/29/2015
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	10/01/2020	12/16/2020	03/12/2021
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	11/12/2020	12/16/2020	03/12/2021
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	10/02/2020	12/18/2020	03/12/2021
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	10/07/2020	12/16/2020	03/12/2021
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	04/08/2020	05/20/2020	08/12/2020
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	09/30/2020	12/22/2020	03/12/2021
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	10/09/2020	12/16/2020	03/12/2021
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	10/01/2020	12/16/2020	03/12/2021
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	10/01/2020	12/16/2020	03/12/2021
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	11/12/2020	12/16/2020	03/12/2021
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	10/02/2020	12/18/2020	03/12/2021
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	10/07/2020	12/16/2020	03/12/2021
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	04/08/2020	05/20/2020	08/12/2020
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	09/30/2020	12/22/2020	03/12/2021
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	10/09/2020	12/16/2020	03/12/2021
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	10/01/2020	12/16/2020	03/12/2021
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisiting	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	12/30/2020	01/14/2021	02/09/2021
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	12/30/2020	01/14/2021	02/18/2021
US	LUCIS	Land Use Control Information System	Department of the Navy	11/11/2020	11/17/2020	02/09/2021
US	MINES MRDS	Mineral Resources Data System	USGS	04/06/2018	10/21/2019	10/24/2019
US	MINES VIOLATIONS	MSHA Violation Assessment Data	DOL, Mine Safety & Health Admi	11/24/2020	11/30/2020	01/25/2021
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	08/05/2020	08/10/2020	10/08/2020
US	NPL	National Priority List	EPA	12/30/2020	01/14/2021	02/09/2021
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	10/09/2019	10/11/2019	12/20/2019
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	09/13/2019	11/06/2019	02/10/2020
US	PCS	Permit Compliance System	EPA, Office of Water	07/14/2011	08/05/2011	09/29/2011
US	PCS ENF	Enforcement data	EPA	12/31/2014	02/05/2015	03/06/2015
US	PCS INACTIVE	Listing of Inactive PCS Permits	EPA	11/05/2014	01/06/2015	05/06/2015
US	PRP	Potentially Responsible Parties	EPA	12/30/2020	01/14/2021	03/05/2021
US	Proposed NPL	Proposed National Priority List Sites	EPA	12/30/2020	01/14/2021	02/09/2021
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	07/01/2019	07/01/2019	09/23/2019
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	12/14/2020	12/17/2020	12/22/2020
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	12/14/2020	12/17/2020	12/22/2020
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	12/14/2020	12/17/2020	12/22/2020
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	12/14/2020	12/17/2020	12/22/2020
US	RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionall	Environmental Protection Agency	12/14/2020	12/17/2020	12/22/2020
US	RMP	Risk Management Plans	Environmental Protection Agency	11/02/2020	11/12/2020	01/25/2021
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St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	ROD	Records Of Decision	EPA	12/30/2020	01/14/2021	02/18/2021
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	01/01/2017	02/03/2017	04/07/2017
US	SEMS	Superfund Enterprise Management System	EPA	12/30/2020	01/14/2021	02/18/2021
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	12/30/2020	01/14/2021	02/18/2021
US	SSTS	Section 7 Tracking Systems	EPA	10/19/2020	10/19/2020	01/04/2021
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2018	08/14/2020	11/04/2020
US	TSCA	Toxic Substances Control Act	EPA	12/31/2016	06/17/2020	09/10/2020
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	08/30/2019	11/15/2019	01/28/2020
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	12/11/2020	12/11/2020	03/02/2021
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	12/07/2020	12/09/2020	03/02/2021
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	10/28/2020	11/05/2020	11/18/2020
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	12/07/2020	12/09/2020	03/02/2021
US	US INST CONTROLS	Institutional Controls Sites List	Environmental Protection Agency	10/28/2020	11/05/2020	11/18/2020
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	11/03/2020	11/23/2020	01/25/2021
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	05/06/2020	05/27/2020	08/13/2020
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	UXO	Unexploded Ordnance Sites	Department of Defense	12/31/2018	07/02/2020	09/17/2020
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СТ	CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protecti	08/10/2020	10/20/2020	11/02/2020
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	01/01/2019	04/29/2020	07/10/2020
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	05/31/2018	06/19/2019	09/03/2019
			·			
US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			
OK	Daycare Centers	Sensitive Receptor: Day Care Centers	Department of Human Services			
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
US	Topographic Map	Current USGS 7.5 Minute Topographic Map	U.S. Geological Survey			
US	Oil/Gas Pipelines		Endeavor Business Media			
US	Electric Power Transmission Line D	Data	Endeavor Business Media			

St Acronym Full Name Government Agency Gov Date Arvl. Date Active Date

STREET AND ADDRESS INFORMATION

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OKLAHON	MA CORPORATION COMMISSION
OIL - CAS CO ATION D. J. SION Jim To Oklahoma	Thorpe Office Building 20814658
ATION DIVISION SIM	City, Oklahoma 73105-4993
OIL = CAS OC 2 1992	330° 1650
INT A P 10	· · · · · · · · · · · · · · · · · · ·
A. PLEASE TYPE OR USE BUACK INK. B. Form must Cube is signed by cur	26401
A. PLEASE TYPE OR USE BUACK INK.	1990'
	rent and new 1320'
operator. C. Reverse side MUST be completed in	
All wells being transferred MUST	be listed.
D. Outline boundaries of lease and	spot all wells
being transferred (Separate map	no larger than
8½"x 11", may be attached). E. Attach 1002A for each well.	O ¹ South Line
F. Transfer of disposal and in	njection wells Nest Nest
subject to OCC Rule 3-309.	Line LOCATE WELL ON GRID ABOVE
Name of Lease or Unit Newman "A" #	1
Lease Description (Fully Define) C NE	County Bryan
Oil Purchaser N/A	Gas Measurer N/A
Current Operator TXO Production Cor	cporation otc/occ Operator No. 06232
Address P.O. Box 689	city Okla. City State OK Zip 73101
TXO Production Corporation facts presented are true and correct transferred are being transferred to	t as to the area covered and the specific wells being Marathon Oil Company OTC/OCC Operator
	KUGedu (405) 720-7373
Effective on 6-15-92 at 12:00a.m. Date Time	
	Ron G. Becker Attorney-In-Fact Name (Print or type) Title
	H MANA H
New Operator Marathon Oil Company	
Address P.O. Box 689	City Okla. City State OK 2ip 73101
Type of Surety	Expiration date of surety
Marathon Oil Company	, Being the new operator, as of the effective
date and time of transfer accepts the operational responsibility for the spec-	facts presented as being true and correct and accept the
operational responsibility for the spec-	(405) 720-7373
	(403) 720-7373
	Agent of New Operator Phone (AC/No.)
2	•
025	Ron G. Becker Attorney-In-Fact Name (Print or type) AC/No.) Title
16025	Ron G. Becker Attorney-In-Fact Name (Print or type) Title
06025	Ron G. Becker Attorney-In-Fact Name (Print or type) Title FOR O.C.C. USE ONLY
(106025	Ron G. Becker Attorney-In-Fact Name (Print or type) Title POR O.C.C. USE ONLY Approved Date Rejected Date
Surety Department	Ron G. Becker Attorney-In-Fact Name (Print or type) Title FOR O.C.C. USE ONLY
Surety Department	Ron G. Becker Attorney-In-Fact Name (Print or type) Title POR O.C.C. USE ONLY Approved Date Rejected Date
(11602	Ron G. Becker Attorney-In-Fact Name (Print or type) Title POR O.C.C. USE ONLY Approved Date Rejected Date

UIC Department

Reason for Rejection:

Page	<u> </u>	of.	<u>l, .</u>
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Current Operator	TXO Production Corporation	New Operator Marathon Oil Company	
Lease Name	Newman "A" #1	County Bryan	

Lease Name									
Well Name and Number Previous & Current	Location Sec Twp Rge	API Number	OTC Production Unit Number	Date of Completion	Well Class Please Specify Oil, Gas, Inj, Disp, Temp Aban, MSW, Junked	Type of Order (If Applicable) Inc Den, Loc Exc, Inj, Disp, Come, Dual Comp	Order No.	Formation(s)	For OCC Use Neviewed by Date & Initials
Tomme #1/Newman "A" #1	NE NE 33-65-9E	01320076		5-15-82	Dry		184214	Bromide	7 4
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		R USE BLAC			QΕ		640 Acres	
County Bry						- 🗆	TTIX.	
Lease Name	Newma	n "A"). Well i	NO	- 🏻		
Well Located_						3 1	╌┼╌┼╌┼	++1
					, or \ Se	ct *		111
Elevation. De	errick Flo	or	Ground_t	20022410		— Д		
COMPANY OPERAT		-	CCION COI	poracio		- -	╅	+++
Address P.	O. BOX	007	∩v	7	3101		. Locate W	ell
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Single Zone	X		Order No					
Single Zone	X							
Single Zone Multiple Zone Commingled	X		_ Order No	•		_	14	
Single Zone	X PTION		_ Order No _ Order No	•		_		
Single Zone Multiple Zone Commingled	X PTION		_ Order No _ Order No	•		_		
Single Zone	X PTION		_ Order No _ Order No	•		_		
Single Zone	X PTION		Order No Order No Order No	S ZONES		_		
Single Zone	X PTION	15	Order No Order No Order No Order No	S ZONES		Penalt		
Single Zone	X PTION	15 From	Order No Order No Order No OIL OR GA	S ZONES		Penalt		
Multiple Zone Commingled LOCATION EXCEI INCREASED DENS	X PTION	15 From	Order No Order No Order No OIL OR GA	S ZONES		Penalt		
Single Zone	X PTION	15 From 8041	Order No Order No Order No OIL OR GA	S ZONES		Penalt		
Single Zone	X PTION	15 From 8041	Order No Order No Order No OIL OR GA To 8095 CASING &	S ZONES		Fro		
Single Zone	X PTION	15 From 8041	Order No Order No Order No OIL OR GA To 8095 CASING &	S ZONES	Ime	Fro	29	
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Single Zone	X PTION SITY	15 From 8041 16 rod Casing Weight	Order No Order No Order No OIL OR GA To 8095 CASING &	S ZONES NE	Ime Cag Test	Fro	Cement	Тор
Single Zone	X PTION SITY Surf & Pi	15 From 8041 16 rod Casing Weight	Order No Order No Order No OIL OR GA To 8095 CASING & Set Grade	S ZONES Na CEMENT Feet	Csg Test	From Sax	Cement Fillup	То
Single Zone	X PTION SITY Surf & Pi	15 From 8041 16 rod Casing Weight	Order No Order No Order No OIL OR GA To 8095 CASING & Set Grade S-80	S ZONES Na CEMENT Feet	Csg Test	From Sax	Cement Fillup	Тор

FORMATION	BROMIDE		
SPACING & SPACING ORDER	640/		
NUMBER	184214		
CLASSIFICATION	Drav		
(Oil, Gas, Dry, Inj Well)	{ }-		_}
	8041-8095		
PERFORATED	<u> </u>		
INTERVALS	 -	···	
			-
	17 10000		
ACID/VOLUME	Yes-4000Ga	<u> IS</u>	·
FRACTURE TREATFD?	No		
Fluids Amounts	LL		
INITIAL TEST DATA	,		
Date			-
O11-bb1/day			ф
Oil-Gravity (*API)	<u>-</u>		-
Gas-MCF/day	_	***************************************	<u> </u>
Gas-Oil Ratio Cu. Ft/bbl	ļ		5
Water-bbl/day			<u> </u>
Pumping or Flowing			
Initial Shut-In Pressure			
CHOKE SIZE			<u> </u>
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are presented on the reverse

I declare that I have knowledge of the contents of this report and am authorized by my organization to make this report, which was prepared by me or under my supervision and direction, with the data and facts stated herein to be true, correct and complete to the best of my knowledge and belief

KorlAdamo	Production Engineer
Sigrature	litie
P.O. Box 689	Oklahoma City, OK 73101
Address	City State Zip
June 29, 1992	(405) 720-7373
Dite	Phone

Type

Depth_

23 WELL NO

22. LEASE NAME

PLEASE TYPE OR USE BLACK INK ONLY

(RULE 3-205) FORMATION RECORD

Give formation names and tops, if available, or descriptions and thickness of formations drilled through. Show intervals cored or drillstem tested

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true, correct, and complete to the best of my knowledge.
This certification covers cementing data only Tommy Cooper Signature of Cementer or Authorized Representative Tommy Cooper - Owner 11-23-92 Name of Person and Title (Type or Print) Date Cooper Oilfield Services Inc. 136 Permit Number Camenting Company P. O. Box 1179 (405) 332-3650 Street Address or P O Box Phone Ada, Oklahoma 74820

State

City

sented in this report and that dita and facts presented are true correct, and complete to the best of my knowledgy. This certification covers all well data and information presented herein.

Signature of Decrator or Authorized Representative.

DENNIS LAUSON 12-17-92.

Name of Person and Title (Type or Print). Dato

Engineer Tock

Name of Field Inspector

John Costiloe

Signature of District Manager.

by signing this form the District Manager has approved the contents thereof as to form only Said District Manager does not warrant that the facts provided by the operator are true or that the above described well

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APPENDIX E CREDENTIALS

PHILIP D. WOOD P.E. OKLAHOMA CITY OFFICE SENIOR ENGINEER

PROFESSIONAL EXPERIENCE

Mr. Wood is a Senior Principal in the Oklahoma City office. He provides technical review and management of major projects of various types. His Masters degree in Civil Engineering was an emphasis in Soil Mechanics and Foundation Engineering. Mr. Wood has over 30 years of experience with projects involving construction of all types, waste management, soil and groundwater investigations, landfill design, lagoon assessment and closure, remedial system design, asbestos, lead-based paint, hazardous waste facility design and closure, industrial wastewater treatment, indoor air quality and health and safety related industrial hygiene services. He has served commercial, military, public and private industrial sector clients throughout the United States and abroad.

Mr. Wood has provided various consulting services for clients including local, state and federal agencies. He has also provided services for private sector clients including aerospace, agricultural, chemical, oil and gas, waste management, plating, food products, metals refining, nuclear fuels processing, nuclear weapons assembly, real estate and tire manufacturing.

Mr. Wood has performed and managed projects involving design and construction of various types of structures, comprehensive remedial design and implementation services for various contaminant types and under different regulatory jurisdictions, including RCRA, consent order and voluntary cleanup programs. He has also performed large scale wastewater characterization studies for industrial clients, and designed and implemented wastewater treatment systems.

PROJECT EXPERIENCE

Groundwater and Soil Remediation System Design

- Pumping and pilot tests to enable design of recovery systems
- Design, installation and start-up of comprehensive groundwater remediation systems, including pumping systems for water and product, air stripping, carbon absorption, vapor extraction and air sparging
- Vapor mitigation system and sub-slab depressurization system design and installation oversight.

Risk Assessment

- Risk analysis, negotiation, closure determination at industrial facilities
- Risk-based corrective action analysis at underground storage tank sites
- Fate and transport modeling, receptor surveys
- Management of properties in voluntary cleanup programs in Oklahoma, Texas and Kansas

Solid Waste Experience

- Liner design and installation management
- Leachate system upgrades
- · New cell design and installation management
- Certifying QA/QC engineer, various municipal solid waste landfills

Education

Master of Science, Civil Engineering, 1981, Oklahoma State University

Bachelor of Science, Civil Engineering, 1979, Oklahoma State University

Registrations

Professional Engineer: Oklahoma and Kansas

Oklahoma Corporation Commission: Environmental Consultant License (lapsed)

Certifications

40-Hour OSHA Hazardous Waste Operations Training

Affiliations

American Society of Civil Engineers

Commercial Real Estate Council

Society for Marketing Professional Services

Work History

Terracon, Office Manager, 2003present

Terracon, Environmental Manager, 1999-2003

CRA Services, Regional Manager, 1997-1999

ATEC Associates, District Manager/Associate Vice-President, 1995-1997

Roberts/Schornick & Associates, Inc., Director of Environmental Engineering, 1989-1994

Terracon, Project Geotechnical Engineer/Manager, 1985-1989

McClelland Engineers, Project Geotechnical Engineer, 1982-1985



- Permit Modifications for Vertical and Horizontal Expansions Various Landfills, Oklahoma
- Hydrogeologic Study, Design and Permitting, Fly ash Landfill Cedar Rapids, Iowa
- Clients include Waste Management, Allied Waste, BFI, Waste Connections

Hazardous Waste Experience

- · Permitting, including preparation of contingency plans, sampling and analysis plans and closure plans
- Tank design, installation management and certification of installation
- Integrity certification of existing tank systems
- Tank system closure plans and certification of closures
- RCRA surface impoundment closure plans, closure supervision and closure certifications
- RCRA closure cost estimates for waste pile, tank and surface impoundment closures
- RCRA waste pile closure plans, construction management and certification of closures

Agricultural Experience

- · Livestock facility design and permitting
- · Dairy permitting and compliance
- Feed lot permitting and compliance
- Lagoon design, construction oversight and certifications
- Due diligence assessments for hog production and dairy facilities
- Lagoon certifications required by Oklahoma Department of Agriculture; Texas Council on Environmental Quality
- · Monitor well installation and sampling
- Investigation of lagoon seepage, including design and implementation of repairs
- Emergency lagoon construction
- · Synthetic liner re-certifications after liner damage

Seepage and Drainage Experience

- Evaluation of groundwater seepage for temporary and permanent below grade facilities, including determination of seepage quantities, piping and drain system design, and temporary and permanent pumping system design. Studies for various sizes and types of facilities across the United States, including gymnasiums, high rise office buildings, museums, and sewer lines
- Evaluation of leaking dam, subsurface exploration, stability analysis, evaluation and recommendations for repair options
- Earthen dam inspection in accordance with Oklahoma Water Resources Board criteria. Inspection of dams and evaluation of hazards for Corps of Engineers, Beckham and Washita Counties, Oklahoma
- Seepage investigation, 25 foot high dam, including recommendations for repairs
- Investigation of lagoon seepage, including field measurements of seepage, and recommendations for repair where needed for several agricultural waste lagoons
- Pump tests, seepage analysis, and design of systems for control of water flow for hydroelectric plant below Corps of Engineers dam

Oil and Gas Experience

- Facility Response Plan and Vulnerability Analysis, 700-mile Pipeline Texas, Oklahoma, Missouri
- Design and implementation of groundwater remediation system, drip tank site
- Pre-purchase assessment and sensitive receptor surveys, 270- and 1,000-mile Texas crude oil pipelines
- Former and current gas plant regulatory, soil and groundwater assessments
- Spill prevention control and countermeasures (SPCC) plans, producing properties, refining, treatment, and pumping facilities
- Mercury meter assessments and remediation
- Erosion study and design of remedies for 90-mile pipeline

Assessments/Audit

 Multi-media compliance audits for industrial facilities, including hazardous waste treatment and recycling facility



- Site assessments for commercial, industrial and manufacturing facilities throughout the United States
- Fiber optic lines and regeneration stations, including NEPA screens

Storm Water Permitting

- Pollution prevention plan development, numerous industrial facilities including manufacturing, refining and chemical
- Notice of Intent preparation
- · Storm water evaluations including flow monitoring, mass balances and determination of contaminant inflow

Industrial Wastewater Management

- Wastewater characterization, bench scale studies, design, permitting and start-up for various treatment systems, including unit operations of settling, precipitation, separation, neutralization and flotation
- Wastewater evaluations for industrial facilities including secondary metals facility, nuclear fuels processing facility, military aircraft manufacturing



VICTORIA R. JOLLY FIELD SCIENTIST

PROFESSIONAL EXPERIENCE

Victoria Jolly is a Field Scientist in Terracon's Oklahoma City, Oklahoma office. Their duties include conducting Phase I Environmental Site Assessments (ESAs), Limited Site Investigations (LSIs), Stormwater Pollution Prevention Plan (SWPPP) inspections, groundwater monitoring, pedological surveys, soil sampling, asbestos surveys, indoor air quality surveys, and lead-based paint surveys. Responsibilities include site investigations, field work, and report writing. Victoria Jolly is a licensed Asbestos Inspector in the state of Oklahoma, and they routinely perform asbestos inspections and stormwater monitoring.

PROJECT EXPERIENCE

Eagle Industries Superfund Remedial Investigation - Midwest City, Oklahoma

 Field lead for groundwater sampling during remedial investigations for the Eagle Industries CERCLA site. Work duties included water level gauging, low-flow groundwater purging, hydraulic conductivity testing for improved hydrogeologic understanding, recording of development and stabilization parameters, and collection of samples through the use of bladder pumps. Work also included QA/QC sample collection and equipment preparation.

Education

Bachelor of Arts, Geology, Carleton College, 2018

Certifications

OSHA 40-Hour HAZWOPER

Asbestos Inspector, Oklahoma Department of Labor

Work History

Terracon Consultants, Inc., Oklahoma City, Oklahoma, Field Scientist, 2020-Present

ProTec Environmental Consultants, Saint Paul, Minnesota, Project Manager, 2019-2020

East Oak Landfill Cell 13 Construction and Turbidity - Midwest City, Oklahoma

Lead field personnel for construction quality assurance during construction of new cell within the East Oak
Landfill. Work duties included construction oversight, field integrity testing, and observation and
documentation of daily activities and work progress. Field Lead for turbidity monitoring. Work Duties included
sampling discharged stormwater from the landfill to monitor turbidity levels. Site visits include visual
monitoring of drainage area for erosion and reporting to the Client.

Phase I Environmental Site Assessments (ESAs) – Oklahoma, Minnesota, Iowa, Wisconsin, North Dakota, South Dakota, and Nebraska

Reviewed historical, regulatory, and geophysical data for site and the surrounding vicinity to evaluate for the
potential of Recognized Environmental Conditions. Work included performing a site visit of the property,
analyzing collected data, creating diagrams of the site, producing a report in compliance with ASTM 1527-13,
and submitting recommendations for further site investigation if applicable.

Limited Subsurface Investigations (LSIs) - Oklahoma and Minnesota

Acted as project manager, supervisor and field technician on multiple LSIs to determine the extent of impact
from petroleum hydrocarbon chemicals of concern (COCs), volatile organic compounds (VOCs), polycyclic
aromatic hydrocarbons (PAHs), or other chemical constituents (i.e. chlorides, lead, arsenic, etc.) that were
identified as RECs and/or VECs on properties during previous Phase I ESAs. Collected groundwater and soil
samples, contracted and supervised drilling crews, analyzed data for environmental impact, and prepared
reports for submittal to state environmental and regulatory agencies.



APPENDIX F DESCRIPTION OF TERMS AND ACRONYMS

Term/Acronym	Description
	Asbestos Containing Material. Asbestos is a naturally occurring mineral, three varieties of which (chrysotile, amosite, crocidolite) have been commonly used as fireproofing or binding agents in construction materials. Exposure to asbestos, as well as ACM, has been documented to cause lung diseases including asbestosis (scarring of the lung), lung cancer and mesothelioma (a cancer of the lung lining).
ACM	Regulatory agencies have generally defined ACM as a material containing greater that one (1) percent asbestos, however some states (e.g. California) define ACM as materials having 0.1% asbestos. In order to define a homogenous material as non-ACM, a minimum number of samples must be collected from the material dependent upon its type and quantity. Homogenous materials defined as non-ACM must either have 1) no asbestos identified in all of its samples or 2) an identified asbestos concentration below the appropriate regulatory threshold. Asbestos concentrations are generally determined using polarized light microscopy or transmission electron microscopy. Point counting is an analytical method to statistically quantify the percentage of asbestos in a sample. The asbestos component of ACM may either be friable or non-friable. Friable materials, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure and have a higher potential for a fiber release than non-friable ACM. Non-friable ACM are materials that are firmly bound in a matrix by plastic, cement, etc. and, if handled carefully, will not become friable.
	Federal and state regulations require that either all suspect building materials be presumed ACM or that an asbestos survey be performed prior to renovation, dismantling, demolition, or other activities that may disturb potential ACM. Notifications are required prior to demolition and/or renovation activities that may impact the condition of ACM in a building. ACM removal may be required if the ACM is likely to be disturbed or damaged during the demolition or renovation. Abatement of friable or potentially friable ACM must be performed by a licensed abatement contractor in accordance with state rules and NESHAP. Additionally, OSHA regulations for work classification, worker training and worker protection will apply.
AHERA	Asbestos Hazard Emergency Response Act
AST	Aboveground Storage Tanks. ASTs are generally described as storage tanks less than 10% of which are below ground (i.e., buried). Tanks located in a basement, but not buried, are also considered ASTs. Whether, and the extent to which, an AST is regulated, is determined on a case-by-case basis and depends upon tank size, its contents and the jurisdiction of its location.
BGS	Below Ground Surface
Brownfields	State and/or tribal listing of Brownfield properties addressed by Cooperative Agreement Recipients or Targeted Brownfields Assessments.
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes. BTEX are VOC components found in gasoline and commonly used as analytical indicators of a petroleum hydrocarbon release.
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (a.k.a. Superfund). CERCLA is the federal act that regulates abandoned or uncontrolled hazardous waste sites. Under this Act, joint and several liability may be imposed on potentially responsible parties for cleanup-related costs.
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System. An EPA compilation of sites having suspected or actual releases of hazardous substances to the environment. CERCLIS also contains information on site inspections, preliminary assessments and remediation of hazardous waste sites. These sites are typically reported to EPA by states and municipalities or by third parties pursuant to CERCLA Section 103.
CESQG	Conditionally Exempt Small Quantity Generators
CFR	Code of Federal Regulations

Term/Acronym	Description
CREC	Controlled Recognized Environmental Condition is defined in ASTM E1527-13 as "a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). A condition considered by the environmental professional to be a controlled recognized environmental condition shall be listed in the findings section of the Phase I Environmental Site Assessment report, and as a recognized environmental condition in the conclusions section of the Phase I Environmental Site Assessment report."
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
ERNS	Emergency Response Notification System. An EPA-maintained federal database which stores information on notifications of oil discharges and hazardous substance releases in quantities greater than the applicable reportable quantity under CERCLA. ERNS is a cooperative datasharing effort between EPA, DOT, and the National Response Center.
ESA	Environmental Site Assessment
FRP	Fiberglass Reinforced Plastic
Hazardous Substance	As defined under CERCLA, this is (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title; (C) any hazardous waste having characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (with some exclusions); (D) any toxic pollutant listed under section 1317(a) of Title 33; (E) any hazardous air pollutant listed under section 112 of the Clean Air Act; and (F) any imminently hazardous chemical substance or mixture with respect to which the EPA Administrator has taken action under section 2606 of Title 15. This term does not include petroleum, including crude oil or any fraction thereof which is not otherwise listed as a hazardous substance under subparagraphs (A) through (F) above, and the term include natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).
Hazardous Waste	This is defined as having characteristics identified or listed under section 3001 of the Solid Waste Disposal Act (with some exceptions). RCRA, as amended by the Solid Waste Disposal Act of 1980, defines this term as a "solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed."
HREC	Historical Recognized Environmental Condition is defined in ASTM E1527-13 as "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time of the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition."

Term/Acronym	Description
IC/EC	A listing of sites with institutional and/or engineering controls in place. IC include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls. EC 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.
ILP	Innocent Landowner/Operator Program
LQG	Large Quantity Generators
LUST	Leaking Underground Storage Tank. This is a federal term set forth under RCRA for leaking USTs. Some states also utilize this term.
MCL	Maximum Contaminant Level. This Safe Drinking Water concept (and also used by many states as a ground water cleanup criteria) refers to the limit on drinking water contamination that determines whether a supplier can deliver water from a specific source without treatment.
MSDS	Material Safety Data Sheets. Written/printed forms prepared by chemical manufacturers, importers and employers which identify the physical and chemical traits of hazardous chemicals under OSHA's Hazard Communication Standard.
NESHAP	National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants.
NFRAP	Facilities where there is "No Further Remedial Action Planned," as more particularly described under the Records Review section of this report.
NOV	Notice of Violation. A notice of violation or similar citation issued to an entity, company or individual by a state or federal regulatory body indicating a violation of applicable rule or regulations has been identified.
NPDES	National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water.
NPL	The NPL is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program.
OSHA	Occupational Safety and Health Administration or Occupational Safety and Health Act
PACM	Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos.
PCB	Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today.
pCi/L	picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials.
PLM	Polarized Light Microscopy (see ACM section of the report, if included in the scope of services)
PST	Petroleum Storage Tank. An AST or UST that contains a petroleum product.

Term/Acronym	Description
Radon	A radioactive gas resulting from radioactive decay of naturally-occurring radioactive materials in rocks and soils containing uranium, granite, shale, phosphate, and pitchblende. Radon concentrations are measured in picoCuries per Liter of Air. Exposure to elevated levels of radon creates a risk of lung cancer; this risk generally increases as the level of radon and the duration of exposure increases. Outdoors, radon is diluted to such low concentrations that it usually does not present a health concern. However, radon can accumulate in building basements or similar enclosed spaces to levels that can pose a risk to human health. Indoor radon concentrations depend primarily upon the building's construction, design and the concentration of radon in the underlying soil and ground water. The EPA recommended annual average indoor "action level" concentration for residential structures is 4.0 pCi/l.
RCRA	Resource Conservation and Recovery Act. Federal act regulating solid and hazardous wastes from point of generation to time of disposal ('cradle to grave"). 42 U.S.C. 6901 et seq.
RCRA Generators	The RCRA Generators database, maintained by the EPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as either large (LQG), small (SQG), or conditionally exempt (CESQG). LQG produce at least 1000 kg/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste. SQG produce 100-1000 kg/month of non-acutely hazardous waste. CESQG are those that generate less than 100 kg/month of non-acutely hazardous waste.
RCRA CORRACTS/TS Ds	The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials which are undergoing "corrective action". A "corrective action" order is issued when there is a release of hazardous waste or constituents into the environment from a RCRA facility.
RCRA Non- CORRACTS/TS Ds	The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.
RCRA Violators List	RAATS. RCRA Administrative Actions Taken. RAATS information is now contained in the RCRIS database and includes records of administrative enforcement actions against facilities for noncompliance.
RCRIS	Resource Conservation and Recovery Information System, as defined in the Records Review section of this report.
REC	Recognized Environmental Conditions are defined by ASTM E1527-13 as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to any release to the environment; 2) under conditions indicative of a release to the environment. De minimis conditions are not recognized environmental conditions."
SCL	State "CERCLIS" List (see SPL /State Priority List, below).
SPCC	Spill Prevention, Control and Countermeasures. SPCC plans are required under federal law (Clean Water Act and Oil Pollution Act) for any facility storing petroleum in tanks and/or containers of 55-gallons or more that when taken in aggregate exceed 1,320 gallons. SPCC plans are also required for facilities with underground petroleum storage tanks with capacities of over 42,000 gallons. Many states have similar spill prevention programs, which may have additional requirements.
SPL	State Priority List. State list of confirmed sites having contamination in which the state is actively involved in clean up activities or is actively pursuing potentially responsible parties for clean up. Sometimes referred to as a State "CERCLIS" List.
SQG	Small Quantity Generator
SWF/LF	State and/or Tribal database of Solid Waste/Landfill facilities. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.
TPH	Total Petroleum Hydrocarbons
TRI	Toxic Release Inventory. Routine EPA report on releases of toxic chemicals to the environment based upon information submitted by entities subject to reporting under the Emergency Planning and Community Right to Know Act.

Term/Acronym	Description
TSCA	Toxic Substances Control Act. A federal law regulating manufacture, import, processing and distribution of chemical substances not specifically
	regulated by other federal laws (such as asbestos, PCBs, lead-based paint and radon). 15 U.S.C 2601 et seq.
USACE	United States Army Corps of Engineers
USC	United States Code
USGS	United States Geological Survey
USNRCS	United States Department of Agriculture-Natural Resource Conservation Service
UST	Underground Storage Tank. Most federal and state regulations, as well as ASTM E1527-13, define this as any tank, incl., underground piping
	connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or
	more beneath the surface of the ground (i.e., buried).
VCP	State and/or Tribal facilities included as Voluntary Cleanup Program sites.
VOC	Volatile Organic Compound
Wetlands	Areas that are typically saturated with surface or ground water that creates an environment supportive of wetland vegetation (i.e., swamps, marshes, bogs). The <u>Corps of Engineers Wetlands Delineation Manual</u> (Technical Report Y-87-1) defines wetlands as areas inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. For an area to be considered a jurisdictional wetland, it must meet the following criteria: more than 50 percent of the dominant plant species must be categorized as Obligate, Facultative Wetland, or Facultative on lists of plant species that occur in wetlands; the soil must be hydric; and, wetland hydrology must be present.
	The federal Clean Water Act which regulates "waters of the US," also regulates wetlands, a program jointly administered by the USACE and the EPA. Waters of the U.S. are defined as: (1) waters used in interstate or foreign commerce, including all waters subject to the ebb and flow of tides; (2) all interstate waters including interstate wetlands; (3) all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, etc., which the use, degradation, or destruction could affect interstate/ foreign commerce; (4) all impoundments of waters otherwise defined as waters of the U.S., (5) tributaries of waters identified in 1 through 4 above; (6) the territorial seas; and (7) wetlands adjacent to waters identified in 1 through 6 above. Only the USACE has the authority to make a final wetlands jurisdictional determination.