Phase I Environmental Site Assessment
Proposed Cypress Creek Reed Road (CCRR) Phase II Apartment Homes
Southeast Quadrant (SEQ) of Reed Road and Park South View
Houston, Harris County, Texas
January 22, 2018
Terracon Project No. 92177970

Prepared for:
Cypress Creek Reed Road Phase II LP
Austin, Texas

Prepared by:
Terracon Consultants, Inc.
Houston, Texas
January 22, 2018

Cypress Creek Reed Road Phase II LP
c/o Bonner Carrington
901 Mopac Expressway South
Barton Oaks Plaza, Building V, Suite 100
Austin, Texas 78746

Attn: Mr. Dillon Shipper
P: (512) 505-0604
E: development@bonnercarrington.com

Re: Phase I Environmental Site Assessment
Proposed CCRR Phase II Apartment Homes
SEQ of Reed Road and Park South View
Houston, Harris County, Texas 77051
Terracon Project No. 92177970

Dear Mr. Shipper:

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. P92177970 dated December 28, 2017 and was conducted consistent with the procedures included in ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The Environmental Professional has read and understands the requirements outlined in Section 10.305 Environmental Site Assessment Rules and Guidelines of the Texas Department of Housing and Community Affairs (TDHCA) 2018 Uniform Multifamily Rules. Terracon will not materially benefit from the Development in any other way than receiving a fee from performing the ESA, and the fee is in no way contingent upon the outcome of the assessment. Terracon grants the Texas Department of Housing and Community Affairs the authority to rely on the findings of the report.

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 Terrace’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.

Ashlee M. Terry
Staff Scientist

Christina Rosilez
ESA Group Manager

Attachments
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EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was performed in accordance with Terracon Proposal No. P92177970 dated December 28, 2017, 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 Environmental Professional has read and understands the requirements outlined in Section 10.305 Environmental Site Assessment Rules and Guidelines of the Texas Department of Housing and Community Affairs (TDHCA) 2018 Uniform Multifamily Rules. The ESA was conducted under the supervision or responsible charge of Ashlee M. Terry, Environmental Professional, who performed the site reconnaissance on January 18, 2018.

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 is approximately three acres of vacant land located in the southeast quadrant of the intersection of Reed Road and Park South View in Houston, Harris County, Texas.

Historical Information
Based on the review of the historical information, the site has consisted of vacant land since at least 1921. The surrounding properties consisted of mostly vacant land from at least 1921 through the early 2010s, at which time commercial and residential development began in the vicinity of the site with increasing development through the present-day. Review of the historical aerial photographs identified historical oil and gas exploration and production (E&P) related activities on-site and/or in the vicinity of the site (west-southwest) during the late-1960s through the late-1970s. The historical E&P activities are further discussed in subsequent paragraphs. The present-day pipeline easement which abuts the northeast portion of the site was installed during the early 1950s and is further discussed below.

Prior Report Review
Terracon reviewed the following previous environmental reports:

**Environmental Desk Review, CCEE – Additional Tracts – SEQ of Reed Road and State Highway 288, Houston, Harris County, Texas, prepared by Terracon Consultants, Inc., Terracon Report No. 92087382 dated July 2008 for Bonner Carrington, LLC.**
Terracon previously performed an Environmental Desk Review (EDR, Terracon Project No. 92087382) dated July 1, 2008 for Bonner Carrington, LLC. The EDR included the review of a Phase I ESA dated October 2004 conducted on approximately 100 acres of land of which the site is a portion of and a Limited Phase II ESA dated December 2004 that were prepared by Berg-Oliver Associates, Inc. The EDR identified historical E&P activities conducted on portions of the current site as an environmental concern. As a result of the EDR findings, Terracon conducted a Limited Site Investigation (LSI) on the current site and adjoining north property.

**Limited Site Investigation, Two Tracts of Land- CCRR Additional Tract – SEQ of Reed Road and State Highway 288, Houston, Harris County, Texas, prepared by Terracon Consultants, Inc., Terracon Report No. 92087422 dated July 21, 2008 for Bonner Carrington, LLC**

The LSI included the installation of six soil borings on the southwestern portion of the site and included analysis of soil samples for total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs) and RCRA-8 metals. Groundwater was not encountered in the boreholes, which were completed to a depth of 40 feet. Based on the results of the Terracon LSI report, TPH was not identified in the soil samples. VOC constituent, methylene chloride was detected at very low concentrations in some of the samples; however, methylene chloride is a common laboratory solvent and the detection of methylene chloride in the soil samples was likely due to laboratory contamination. Several RCRA metals were detected in the near surface soil samples at low concentrations, all less than the TCEQ action levels. Based on this information, the E&P activities historically identified on-site do not represent an REC to the site.

**Phase I Environmental Site Assessment, Approximately 3.0 Acres of Land – SEQ of Reed Road and Park South View, Houston, Harris County, Texas, prepared by Terracon Consultants, Inc., Terracon Report No. 92157054 dated February 23, 2015 for Cypress Creek Reed Road Phase II LP**

A previous Phase I ESA was conducted by Terracon in February 2015 for the current site limits. Terracon did not identify RECs in the 2015 Phase I ESA. As such, no additional investigation was warranted at that time. Based on the proximity of the significant roads and highways to the site, Terracon recommended that a noise study be conducted.

**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 listed in the current environmental regulatory database obtained by Terracon. A review of federal and state regulatory database information identified several additional listed facilities within the specified search area. The facilities listed in the database report do not appear to represent RECs to the site at this time based upon regulatory status, apparent topographic gradient, and/or distance from the site.
Terracon reviewed the on-line Railroad Commission of Texas (RRC) records (available through the RRC public GIS map viewer and related databases) to identify registered oil/gas wells and/or pipelines on or adjacent to the site. Based on the review of RRC on-line well/pipeline records, no registered oil/gas wells were identified on the site.

However, review of the historical aerial photographs, identified an area of disturbance likely related to oil/gas E&P activities on the southwestern portion of the site. The area likely associated with oil/gas E&P activities is further discussed in previous paragraphs.

In addition, two crude oil pipelines and two gasoline pipelines, which is currently in service, was identified to the adjoining north of the site. While it is possible that soil and groundwater at the site have been affected by releases from the pipeline, evidence of a release was not identified. Based on this information and Terracon’s experience investigating pipeline systems, it is our opinion that the likelihood of a release from the pipeline to have impacted the site is considered low enough not to constitute an REC to the site at this time. It should be noted that if a pipeline release were discovered, the owner/operator of the pipeline is typically responsible for associated corrective actions.

Site Reconnaissance
Based on the site reconnaissance, RECs were not identified associated with the current site operations.

Adjoining Properties
The north adjoining property consists of a pipeline easement followed by Cypress Creek at Reed Road apartments. The east adjoining property consists of vacant land followed by a pipeline easement and two drainage features. The south adjoining property consists of an office/warehouse building (occupied by Dimaere Fresh). The west adjoining property consists of Park South View followed by two office/warehouse buildings (tenants: AT&T and Sharps). The pipeline easement adjoining north-northeast is further discussed above. RECs were not observed with the current uses of the adjoining properties.

Additional Services
Per the agreed scope of services specified in the proposal, the following additional services were conducted.
FEMA Map Review

Terracon obtained a copy of the FEMA Flood Insurance Rate Map (FIRM) from the official FEMA website, and a copy of this map is located in Appendix D. The site appears to be located on FEMA FIRM No. 482001C0870L, Panel 870 of 1150, dated June 18, 2007. The FIRMETTE Map indicates the site is located in Zone X (unshaded). Zone X unshaded areas are of minimal flood hazard, usually depicted on FIRMAs as above the 500-year flood level.

Current Survey

A site diagram, which displays the property boundaries, adjacent streets, and improvements on the site, is provided in Appendix A as Exhibit 2.

Asbestos Containing Materials

The site consisted of vacant land; therefore, testing for asbestos-containing materials (ACMs) would not be required pursuant to local, state, and federal laws.

Lead-Based Paint

The site consisted of vacant land; therefore, testing for lead-based paint materials would not be required pursuant to local, state, and federal laws.

Radon Records Review

Based on a review of the EPA Map of Radon Zones, the site is located in EPA Zone 3, which includes counties which have a predicted average screening level of less than 2 picocuries per liter (pCi/L). Radon testing was not conducted as part of the scope of services; additionally, Terracon does not consider future radon testing at the site to be warranted because the potential for the presence of radon is considered low (according to EPA standards).

Limited Lead in Drinking Water Records Review

Based on a review of the 2015 Drinking Water Quality Report, the City of Houston obtains 90 percent of its drinking water from surface water, through the San Jacinto River, Lake Conroe, the Trinity River and Lake Livingston. The remaining ten percent is obtained from groundwater wells. In addition, the 2015 Drinking Water Quality Report indicates that the City of Houston drinking water is in compliance with the State of Texas and EPA national primary drinking water regulations, and meets the 90 percent compliance level for lead in drinking water.

Lead in drinking water is often associated with lead-soldered plumbing in old structures. Since the site consisted of vacant land, no sampling for lead in drinking water was conducted for this project.
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Noise Survey

The Noise Guidebook, published by the U.S. Department of Housing and Urban Development items under consideration include: all civilian airports within 5 miles of the site, all military airports within 15 miles of the site, all significant roads within 1,000 feet and all railroads within 3,000 feet of the site. Park South View abuts the western boundary of the site. According to the area reconnaissance and aerial photography, Reed Road is located approximately 450 feet north and Highway 288 South is located approximately 1,000 feet west of the site. Based on the proximity of major roadways to the site, per HUD guidelines, Terracon recommends that a noise study be conducted.

Oil, Gas and Chemicals

The Environmental Planning Division (EPD) has developed an electronic-based assessment tool that calculates the Acceptable Separation Distance (ASD) from stationary hazards. The ASD is the distance from above ground stationary containerized hazards of an explosive or fire prone nature, to where a HUD assisted project can be located. The ASD is consistent with the Department’s standards of blast overpressure (0.5 psi-buildings) and thermal radiation (450 BTU/ft²·hr) people and 10,000 BTU/ft²·hr - buildings). Calculation of the ASD is the first step to assess site suitability for proposed HUD-assisted projects near stationary hazards. Additional guidance on ASDs is available in the Department’s guidebook “Siting of HUD-Assisted Projects Near Hazardous Facilities” and the regulation 24 CFR Part 51, Subpart C, Siting of HUD-Assisted Projects Near Hazardous Operations Handling Conventional Fuels or Chemicals of an Explosive or Flammable Nature.

Using current and historical aerial photographs along with state regulatory records, Terracon searched for aboveground storage tanks (ASTs) and/or tank batteries on adjoining and nearby properties. No ASTs were identified on adjoining and nearby properties. However, Terracon identified a pipeline easement with four pipelines containing crude oil and gasoline to the adjoining north of the site.

According to the Barrier Design Guidance for HUD Assisted Projects near Hazardous Facility dated October 2011, Section III – Exclusion and Limitation of this Guidance:

“Pipelines, such as high pressure natural gas transmission pipelines or liquid petroleum pipelines – Pipelines that transmit hazardous substances are not considered a hazard under 24 CFR Part 51 Subpart C if they are located underground or if they comply with applicable Federal, State or local safety standards.”

Due to the absence of above ground stationary containerized hazards of an explosive or fire prone nature a HUD blast zone map and calculation were not deemed necessary at this time.
Vapor Encroachment Screening

Based on the results of Terracon’s 2008 LSI report, physical setting of the site, the current and planned use of the site and the findings from the historical and regulatory records review, no potential VECs were identified in the site vicinity.

Significant Data Gaps

Significant data gaps were not identified.

Conclusions

We have performed a Phase I ESA consistent with the procedures included in ASTM Practice E 1527-13 of the Proposed CCRR Phase II Apartment Homes located in the SEQ of Reed Road and Park South View, Houston, Harris County, Texas, 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.

Based on the proximity of major roadways to the site, per HUD guidelines, Terracon recommends that a noise study be conducted.
1.0  INTRODUCTION

1.1  Site Description

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Proposed CCRR Phase II Apartment Homes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Location/Address</td>
<td>SEQ of Reed Road and Park South View</td>
</tr>
<tr>
<td></td>
<td>Houston, Harris County, Texas</td>
</tr>
<tr>
<td>Land Area</td>
<td>Approximately 3 acres</td>
</tr>
<tr>
<td>Site Improvements</td>
<td>None</td>
</tr>
<tr>
<td>Anticipated Future Site Use</td>
<td>Development for residential use</td>
</tr>
<tr>
<td>Purpose of the ESA</td>
<td>Securing financing for site purchase</td>
</tr>
</tbody>
</table>

The location of the site is depicted on Exhibit 1 of Appendix A, which was reproduced from a portion of the Bellaire, Texas 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. P92177970 dated December 28, 2017, 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 Environmental Professional has read and understands the requirements outlined in Section 10.305 Environmental Site Assessment Rules and Guidelines of the Texas Department of Housing and Community Affairs (TDHCA) 2018 Uniform Multifamily Rules. 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.

As requested by the client, the following additional services were performed:
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 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:

- Due to dense vegetation, portions of the site could not be accessed entirely and surface conditions could not be observed; however, Terracon does not consider this a significant data gap.

- Terracon attempted to contact the site contact provided by the client; however, at the issuance of this report, a historical interview has not been conducted for the site. Based on the review of historical resources and the nature of the site (vacant land), the absence of a historical interview does not constitute a significant data gap.

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 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 Cypress Creek Reed Road Phase II LP c/o Bonner Carrington, LLC and the Texas Department of Housing and Community Affairs (TDHCA). Use or reliance by any other party is prohibited without the written authorization of Cypress Creek Reed Road Phase II LP 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, Mr. Casey Bump, client’s representative, provided the following user questionnaire information as described in ASTM E1527-13 Section 6.

Client Questionnaire Responses

<table>
<thead>
<tr>
<th>Client Questionnaire Item</th>
<th>Client Did Not Respond</th>
<th>Client’s Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specialized Knowledge or Experience that is material to a REC in connection with the site</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Actual Knowledge of Environmental Liens or Activity Use Limitations (AULs) that may encumber the site</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Actual Knowledge of a Lower Purchase Price because contamination is known or believed to be present at the site</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Commonly Known or Reasonably Ascertainable Information that is material to a REC in connection with the site</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Obvious Indicators of Contamination at the site.</td>
<td></td>
<td>X</td>
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</table>

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

<table>
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<th>Physical Setting Information</th>
<th>Source</th>
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<tbody>
<tr>
<td><strong>Topography</strong> (Refer to Appendix A for an excerpt of the Topographic Map)</td>
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<tr>
<td>Site Elevation</td>
<td>Approximately 50-55 feet (NGVD)</td>
</tr>
<tr>
<td>Surface Runoff/ Topographic Gradient</td>
<td>General gradient towards the east-southeast</td>
</tr>
<tr>
<td>Closest Surface Water</td>
<td>A drainage feature located approximately 265 feet east of the site</td>
</tr>
<tr>
<td><strong>Soil Characteristics</strong></td>
<td></td>
</tr>
<tr>
<td>Soil Type</td>
<td>Lake Charles clay</td>
</tr>
<tr>
<td>Description</td>
<td>The Lake Charles series consist of deep, neutral, nearly level to gently sloping clayey soils on upland prairies. These soils are clayey throughout the profile and have wide deep cracks and intersecting slickensides. They formed in alkaline marine clay. Typically, this soil is somewhat poorly drained. Surface runoff, permeability, and internal drainage are very slow. The available water capacity is high. When this soil is dry, deep, wide cracks form on the surface. Water enters rapidly through the cracks, but it enters very slowly when the soil is wet and the cracks are sealed. There is a high risk of corrosion to uncoated steel.</td>
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<tr>
<td><strong>Geology/Hydrogeology</strong></td>
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<tr>
<td>Formation</td>
<td>Beaumont Formation</td>
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<tr>
<td>Description</td>
<td>Heterogeneous formation containing thick interbedded layers of clay, fine sand, and silt.</td>
</tr>
<tr>
<td>Estimated Depth to First Occurrence of Groundwater</td>
<td>Approximately 40 feet below ground surface (bgs).</td>
</tr>
<tr>
<td>*Hydrogeologic Gradient</td>
<td>Not known - may be inferred to be parallel to topographic gradient (generally to the east-southeast)</td>
</tr>
</tbody>
</table>

* 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 and selected historical aerial photographs (at approximately 10 to 15 year intervals) were reviewed to evaluate land development and obtain information concerning the history of development on and near the site. Reviewed historical topographic maps and aerial photographs are summarized below.

Historical fire insurance maps produced by the Sanborn Map Company were requested from GeoSearch 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.

Topographic maps:
- Bellaire, Texas, published 1921 (1:31,680)
- Bellaire, Texas, published 1947 (1:25,000)
- Bellaire, Texas, published 1955 (1:24,000)
- Bellaire, Texas, published 1967 (1:24,000)
- Bellaire, Texas, published 1982 (1:24,000)
- Bellaire, Texas, published 1995 (1:24,000)

Aerial photographs
- Tobin, ID# 736-4-91, 1930, 1”=500’
- ASCS, ID# 4-118, April 3, 1944, 1”=500’
- ASCS, ID# 13-96, April 26, 1953, 1”=500’
- USGS, ID# 2-92 and 2-94, October 31, 1962, 1”=500’
- Wallace, ID# 105, February 21, 1969, 1”=500’
- USGS, ID# 1-49, November 12, 1974, 1”=500’
- TXDOT, ID# 319 and 321, March 25, 1979, 1”=500’
- TXDOT, ID# 334, October 10, 1989, 1”=500’
- USGS, ID# N/A, January 23, 1995, 1”=500’
- USDA, ID# N/A, 2005, 1”=500’
- USDA, ID# N/A, 2010, 1”=500’
- USDA, ID# N/A, 2012, 1”=500’
- USDA, ID# N/A, 2016, 1”=500’
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Historical Topographic Maps and Aerial Photographs

<table>
<thead>
<tr>
<th>Direction</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site</td>
<td>Vacant land (1921-1955); vacant land with land disturbance on the southwest corner of the site (likely associated with nearby E&amp;P activities) (1962-1969); vacant land (1974-2016)</td>
</tr>
<tr>
<td>North</td>
<td>Vacant land (1921); a linear feature (likely the present-day pipeline easement) followed by vacant land (1930-1953); the present-day pipeline easement followed by vacant land (1955-2005); the present day pipeline easement followed by residential development (2010-2016)</td>
</tr>
<tr>
<td>East</td>
<td>Vacant land (1921); a linear feature (likely the present-day pipeline easement) followed by a drainage feature (1930-2004); the present-day pipeline easement and a drainage ditch followed by a drainage feature (2010-2016)</td>
</tr>
<tr>
<td>South</td>
<td>Vacant land (1921-1955); vacant land and a disturbed area (likely associated with nearby oil/gas E&amp;P activities) (1962-1969); vacant land (1974-2010); developed with the present-day office/warehouse building (2012-2016)</td>
</tr>
<tr>
<td>West</td>
<td>Vacant land (1921-1955); vacant land and apparent E&amp;P activities followed by an unimproved road (1962-1969); E&amp;P activities are no longer evident (1974-1979); vacant land followed by an unimproved road (1982-2005); developed with the present-day improvements (roads and commercial development) (2010-2016)</td>
</tr>
</tbody>
</table>

The E&P activities are further discussed in Section 3.7.

The pipeline easement to the adjoining northeast of the site is further discussed in Section 4.2.

3.2 Historical City Directories

The Cole city directories used in this study were made available through City of Houston Public Library and GeoSearch (selected years reviewed: 1975-2016) and were reviewed at approximate five-year intervals, if readily available. Since these references are copyright protected, reproductions are not provided in this report. City directories were not available prior to 1975.

Historical City Directories

<table>
<thead>
<tr>
<th>Direction</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site</td>
<td>No listings</td>
</tr>
<tr>
<td>North</td>
<td>2910 Reed Road: No listings (1975-2008); apartments (2009-2016)</td>
</tr>
<tr>
<td>East</td>
<td>No listings</td>
</tr>
<tr>
<td>South</td>
<td>9221 Park South View: No listings (1975-2008); Dimare Fresh (2013-2016)</td>
</tr>
<tr>
<td>West</td>
<td>2714 Reed Road: No listings (1975-2008); Family Dollar (2013-2016) 2720 Reed Road: No listings (1975-2008); Red Wing Shoes, Screentek, Texas Car Title, Therapy Support (2013); Data Bank Imx, Databank, Andon Specialties Inc. (2016) 2730 Reed Road: No listings (1975-2016)</td>
</tr>
</tbody>
</table>
3.3 Site Ownership

Based on a review of information obtained from the on-line Harris County Appraisal District records, the current site owner is Stuart Shaw Family Partnership Ltd.

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

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.

While not requested by the client, the GeoSearch 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. Based on its limited nature, this review does not constitute a review of AULs per ASTM E1527-13.

3.6 Interviews Regarding Current and Historical Site Uses

Terracon attempted to contact the site contact provided by the client; however, at the issuance of this report, a historical interview was not conducted for the site. Based on the review of historical resources and the nature of the site (vacant land), the absence of a historical interview does not constitute a significant data gap.

3.7 Prior Report Review

Terracon requested the client provide any previous reports they are aware of for the site. Terracon reviewed the following previous environmental reports:

Environmental Desk Review, CCEE – Additional Tracts – SEQ of Reed Road and State Highway 288, Houston, Harris County, Texas, prepared by Terracon Consultants, Inc., Terracon Report No. 92087382 dated July 2008 for Bonner Carrington, LLC.

Terracon previously performed an Environmental Desk Review (EDR, Terracon Project No. 92087382) dated July 1, 2008 for Bonner Carrington, LLC. The EDR included the review of a Phase I ESA dated October 2004 conducted on approximately 100 acres of land of which the site
is a portion of and a Limited Phase II ESA dated December 2004 that were prepared by Berg-Oliver Associates, Inc. The EDR identified historical E&P activities conducted on portions of the current site as an environmental concern. As a result of the EDR findings, Terracon conducted a Limited Site Investigation (LSI) on the current site and adjoining north property.

**Limited Site Investigation, Two Tracts of Land - CCRR Additional Tract – SEQ of Reed Road and State Highway 288, Houston, Harris County, Texas, prepared by Terracon Consultants, Inc., Terracon Report No. 92087422 dated July 21, 2008 for Bonner Carrington, LLC**

The LSI included the installation of six soil borings on the southwestern portion of the site and included analysis of soil samples for total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs) and RCRA-8 metals. Groundwater was not encountered in the boreholes, which were completed to a depth of 40 feet. Based on the results of the Terracon LSI report, TPH was not identified in the soil samples. VOC constituent, methylene chloride was detected at very low concentrations in some of the samples; however, methylene chloride is a common laboratory solvent and the detection of methylene chloride in the soil samples was likely due to laboratory contamination. Several RCRA metals were detected in the near surface soil samples at low concentrations, all less than the TCEQ action levels. Based on this information, the E&P activities historically identified on-site do not represent an REC to the site.

**Phase I Environmental Site Assessment, Approximately 3.0 Acres of Land – SEQ of Reed Road and Park South View, Houston, Harris County, Texas, prepared by Terracon Consultants, Inc., Terracon Report No. 92157054 dated February 23, 2015 for Cypress Creek Reed Road Phase II LP**

A previous Phase I ESA was conducted by Terracon in February 2015 for the current site limits. Terracon did not identify RECs in the 2015 Phase I ESA. As such, no additional investigation was warranted at that time. Based on the proximity of the significant roads and highways to the site, Terracon recommended that a noise study be conducted.

### 4.0 RECORDS REVIEW

Regulatory database information was provided by GeoSearch, 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.

### Federal Databases

<table>
<thead>
<tr>
<th>Database</th>
<th>Description</th>
<th>Distance (miles)</th>
<th>Listings</th>
</tr>
</thead>
<tbody>
<tr>
<td>BF</td>
<td>Brownfields Management System</td>
<td>0.5</td>
<td>1</td>
</tr>
<tr>
<td>SEMS</td>
<td>Superfund Enterprise Management System</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>SEMSARCH</td>
<td>Superfund Enterprise Management System Archive</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>DNPL</td>
<td>Delisted National Priorities List</td>
<td>1.0</td>
<td>0</td>
</tr>
<tr>
<td>EC</td>
<td>Federal Engineering Institutional Control Sites</td>
<td>Site</td>
<td>0</td>
</tr>
<tr>
<td>ERNSTX</td>
<td>Emergency Response Notification System</td>
<td>Site</td>
<td>0</td>
</tr>
<tr>
<td>LUCIS</td>
<td>Land Use Control Information System</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>RCRAGR</td>
<td>RCRA Generator Facilities</td>
<td>0.1</td>
<td>1</td>
</tr>
<tr>
<td>RCRANG</td>
<td>RCRA Non-Generator Facilities</td>
<td>0.1</td>
<td>0</td>
</tr>
<tr>
<td>NLRRCRAG</td>
<td>No Longer Regulated RCRA Generator Facilities</td>
<td>0.1</td>
<td>0</td>
</tr>
<tr>
<td>NLRRCRAT</td>
<td>No Longer Regulated RCRA Non-CORRACTS TSD Facilities</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>NPL</td>
<td>National Priorities List</td>
<td>1.0</td>
<td>0</td>
</tr>
<tr>
<td>PNPL</td>
<td>Proposed National Priorities List</td>
<td>1.0</td>
<td>0</td>
</tr>
<tr>
<td>RCRAC</td>
<td>Resource Conservation &amp; Recovery Act - Corrective Action Facilities</td>
<td>1.0</td>
<td>1</td>
</tr>
<tr>
<td>RCRAT</td>
<td>Resource Conservation &amp; Recovery Act - Treatment Storage &amp; Disposal Facilities</td>
<td>0.5</td>
<td>0</td>
</tr>
</tbody>
</table>

### State/Tribal Databases

<table>
<thead>
<tr>
<th>Database</th>
<th>Description</th>
<th>Distance (miles)</th>
<th>Listings</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSA</td>
<td>Brownfields Site Assessments</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>CALF</td>
<td>Closed &amp; Abandoned Landfill Inventory</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>DCR</td>
<td>Dry Cleaner Registration Database</td>
<td>0.25</td>
<td>0</td>
</tr>
<tr>
<td>IHW</td>
<td>Industrial And Hazardous Waste Sites</td>
<td>0.1</td>
<td>0</td>
</tr>
<tr>
<td>IOP</td>
<td>Innocent Owner / Operator Database</td>
<td>0.25</td>
<td>0</td>
</tr>
<tr>
<td>LPST</td>
<td>Leaking Petroleum Storage Tanks</td>
<td>0.5</td>
<td>2</td>
</tr>
<tr>
<td>LUSTRO6</td>
<td>Leaking Underground Storage Tanks On Tribal Lands (Region 6 States)</td>
<td>0.5</td>
<td>0</td>
</tr>
</tbody>
</table>
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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.

The following table summarizes the site-specific information provided by the database and/or gathered by this office for identified facilities identified within the specific radius of the site. Facilities are listed in order of proximity to the site. Additional discussion for selected facilities follows the summary table.

### Listed Facilities

<table>
<thead>
<tr>
<th>Facility Name And Location</th>
<th>Estimated Distance / Direction/Gradient</th>
<th>Database Listings</th>
<th>Is a REC, CREC, or HREC to the Site</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family Dollar #8856 2714 Reed Road</td>
<td>Approximately 250 feet / NW / Up-gradient</td>
<td>RCRAGR06</td>
<td>No, based on distance</td>
</tr>
<tr>
<td>Bellfort Landfill 3300 Bellfort Boulevard</td>
<td>Approximately 400 feet / NE / Up-to-cross-gradient</td>
<td>BF</td>
<td>No, based on distance</td>
</tr>
<tr>
<td>AM Mini Mart 15 9202 Rosehaven Drive</td>
<td>Approximately 0.3 mile / NE / Cross-gradient</td>
<td>LPST</td>
<td>No, based on distance</td>
</tr>
<tr>
<td>Handi Plus 332 2665 Reed Road</td>
<td>Approximately 0.3 mile / NW / Up-gradient</td>
<td>LPST</td>
<td>No, based on distance</td>
</tr>
<tr>
<td>Polyn Composites USA 2434 Holmes Road</td>
<td>Approximately 0.9 mile / NW / Up-gradient</td>
<td>RCRAC</td>
<td>No, based on distance</td>
</tr>
</tbody>
</table>
The facilities listed in the database report do not appear to represent RECs to the site at this time based upon regulatory status, apparent topographic gradient, and/or distance from the site.

Unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the site. The report did not list facilities in the unmapped section.

4.2 Local Agency Inquiries

<table>
<thead>
<tr>
<th>Agency Contacted/ Contact Method</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Houston Department of Health and Human Services / Letter via fax</td>
<td>An address was not identified for the site, therefore, a request was sent to the City of Houston Department of Health and Human Services for the closest developed property, 2910 Reed Road. The City of Houston Department of Health and Human Services response indicated no environmental health records were found pertaining to this address.</td>
</tr>
<tr>
<td>City of Houston Fire Department – Hazmat Team / Letter via fax</td>
<td>An address was not identified for the site, therefore, a request was sent to the City of Houston Fire Department – Hazmat Team for key map 573B. The City of Houston Fire Department – Hazmat Team response indicated a total of four natural gas releases at the closest developed property, 2910 Reed Road. However, based on the properties of natural gas, these releases do not constitute an REC to the site.</td>
</tr>
</tbody>
</table>

4.3 Local Area Knowledge

Pipeline and Oil/Gas Well Review
Terracon reviewed the on-line Railroad Commission of Texas (RRC) records (available through the RRC public GIS map viewer and related databases) to identify registered oil/gas wells and/or pipelines on or adjacent to the site. Based on the review of RRC on-line well/pipeline records, no registered oil/gas wells were identified on the site.

However, review of the historical aerial photographs, identified an area of disturbance likely related to oil/gas E&P activities on the southwestern portion of the site. The area likely associated with oil/gas E&P activities is further discussed in previous paragraphs.

In addition, two crude oil pipelines and two gasoline pipelines, which is currently in service, was identified to the adjoining north of the site. While it is possible that soil and groundwater at the site have been affected by releases from the pipeline, evidence of a release was not identified. Based on this information and Terracon’s experience investigating pipeline systems, it is our opinion that the likelihood of a release from the pipeline to have impacted the site is considered low enough not to constitute an REC to the site at this time. It should be noted that if a pipeline release were discovered, the owner/operator of the pipeline is typically responsible for associated corrective actions.
Houston-Galveston Area Council (HGAC)
The HGAC maintains a multi-county database of permitted and unpermitted closed landfills. According to the HGAC website, one closed landfill has been recorded approximately 0.20-mile northeast of the site (appears to be the Bellfort Landfill which is discussed in Section 4.1). Based on the distance from the site, the landfill does not represent an REC to the site. A copy of the HGAC map can be found in Appendix D of this report.

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.

General Site Information

<table>
<thead>
<tr>
<th>Site Reconnaissance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field Personnel</td>
</tr>
<tr>
<td>Reconnaissance Date</td>
</tr>
<tr>
<td>Weather Conditions</td>
</tr>
<tr>
<td>Site Contact/Title</td>
</tr>
</tbody>
</table>

5.2 Overview of Current Site Occupants

The site is currently vacant land, and therefore, there are no site occupants.

5.3 Overview of Current Site Operations

The site is currently vacant land, and therefore, there are no site operations.

5.4 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

<table>
<thead>
<tr>
<th>Category</th>
<th>Item or Feature</th>
<th>Observed or Identified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Operations, Processes, and Equipment</td>
<td>Emergency generators</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Elevators</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Air compressors</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hydraulic lifts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dry cleaning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Photo processing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ventilation hoods and/or incinerators</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Waste treatment systems and/or water treatment systems</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heating and/or cooling systems</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Paint booths</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sub-grade mechanic pits</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wash-down areas or carwashes</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pesticide/herbicide production or storage</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Printing operations</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metal finishing (e.g., electroplating, chrome plating, galvanizing, etc.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Salvage operations</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oil, gas or mineral production</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other processes or equipment</td>
<td></td>
</tr>
<tr>
<td>Aboveground Chemical or Waste Storage</td>
<td>Aboveground storage tanks</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Drums, barrels and/or containers ≥ 5 gallons</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSDS or SDS</td>
<td></td>
</tr>
<tr>
<td>Underground Chemical or Waste Storage, Drainage or Collection Systems</td>
<td>Underground storage tanks or ancillary UST equipment</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sumps, cisterns, French drains, catch basins and/or dry wells</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Grease traps</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Septic tanks and/or leach fields</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oil/water separators, clarifiers, sand traps, triple traps, interceptors</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pipeline markers</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Interior floor drains</td>
<td></td>
</tr>
<tr>
<td>Electrical Transformers/PCBs</td>
<td>Transformers and/or capacitors</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other equipment</td>
<td></td>
</tr>
</tbody>
</table>
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**January 22, 2018**  
**Terracon Project No. 92177970**

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

### Releases or Potential Releases

**Trash, debris and/or other waste materials**  
During the site reconnaissance, scattered debris consisting of plastic, automobile tires, household trash, and wood scraps were observed along the western and northwest portions of the site. Based on visual observation, the debris materials did not appear to be hazardous in nature and do not appear to constitute an REC to the site. However, it should be noted that tires are subject to regulated disposal or recycling.

### 6.0 ADJOINING PROPERTY RECONNAISSANCE

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

#### Adjoining Properties

<table>
<thead>
<tr>
<th>Direction</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>North</td>
<td>A <strong>pipeline easement</strong> followed by Cypress Creek at Reed Road apartments</td>
</tr>
<tr>
<td>East</td>
<td>Vacant land followed by a <strong>pipeline easement</strong> and two drainage features</td>
</tr>
<tr>
<td>South</td>
<td>An office/warehouse building (occupied by Dimare Fresh)</td>
</tr>
<tr>
<td>West</td>
<td>Park South View followed by two office/warehouse buildings (tenants: AT&amp;T and Sharps)</td>
</tr>
</tbody>
</table>
The pipeline easement adjoining north-northeast is further discussed in Section 4.3.

RECs were not observed with the current uses of the adjoining properties.

### 7.0 ADDITIONAL SERVICES

Per the agreed scope of services specified in the proposal, the following additional services (e.g. FEMA Map review, a Current Survey, Asbestos Containing Materials, Lead-Based Paint, Radon Records Review, Limited Lead in Drinking Water Records Review, Noise Survey, Oil, Gas and Chemicals, and Vapor Encroachment Screening) were conducted.

#### 7.1 FEMA Map Review

Terracon obtained a copy of the FEMA Flood Insurance Rate Map (FIRM) from the official FEMA website, and a copy of this map is located in Appendix D. The site appears to be located on FEMA FIRM No. 482001C0870L, Panel 870 of 1150, dated June 18, 2007. The FIRMETTE Map indicates the site is located in Zone X (unshaded). Zone X unshaded areas are of minimal flood hazard, usually depicted on FIRMs as above the 500-year flood level.

#### 7.2 Current Survey

A site diagram, which displays the property boundaries, adjacent streets, and improvements on the site, is provided in Appendix A as Exhibit 2.

#### 7.3 Asbestos Containing Materials

The site consisted of vacant land; therefore, testing for asbestos-containing materials (ACMs) would not be required pursuant to local, state, and federal laws.

#### 7.4 Lead-Based Paint

The site consisted of vacant land; therefore, testing for lead-based paint materials would not be required pursuant to local, state, and federal laws.

#### 7.5 Radon Records Review

Based on a review of the EPA Map of Radon Zones, the site is located in EPA Zone 3, which includes counties which have a predicted average screening level of less than 2 pCi/L. Radon testing was not conducted as part of the scope of services; additionally, Terracon does not consider future radon testing at the site to be warranted because the potential for the presence of radon is considered low (according to EPA standards).
7.6 Limited Lead in Drinking Water Records Review

Lead is a toxic heavy metal that could be present in drinking water. Natural water usually contains very little lead. Contamination generally occurs in the water distribution system or in the supply pipes of the building. Because of this, the EPA has established an action level for lead concentrations in drinking water of 15 µg/L. The action level is defined as the concentration of lead in water, which if exceeded, triggers treatment or other requirements that a water system must follow.

Based on a review of the 2015 Drinking Water Quality Report, the City of Houston obtains 90 percent of its drinking water from surface water, through the San Jacinto River, Lake Conroe, the Trinity River and Lake Livingston. The remaining ten percent is obtained from groundwater wells. In addition, the 2015 Drinking Water Quality Report indicates that the City of Houston drinking water is in compliance with the State of Texas and EPA national primary drinking water regulations, and meets the 90 percent compliance level for lead in drinking water.

Lead in drinking water is often associated with lead-soldered plumbing in old structures. Since the site consisted of vacant land, no sampling for lead in drinking water was conducted for this project.

7.7 Noise Survey

The Noise Guidebook, published by the U.S. Department of Housing and Urban Development items under consideration include: all civilian airports within 5 miles of the site, all military airports within 15 miles of the site, all significant roads within 1,000 feet and all railroads within 3,000 feet of the site. Park South View abuts the western boundary of the site. According to the area reconnaissance and aerial photography, Reed Road is located approximately 450 feet north and Highway 288 South is located approximately 1,000 feet west of the site.

Based on the proximity of major roadways to the site, per HUD guidelines, Terracon recommends that a noise study be conducted.

7.8 Oil, Gas and Chemicals

The Environmental Planning Division (EPD) has developed an electronic-based assessment tool that calculates the Acceptable Separation Distance (ASD) from stationary hazards. The ASD is the distance from above ground stationary containerized hazards of an explosive or fire prone nature, to where a HUD assisted project can be located. The ASD is consistent with the Department's standards of blast overpressure (0.5 psi-buildings) and thermal radiation (450 BTU/ft² - hr) people and 10,000 BTU/ft² - hr - buildings). Calculation of the ASD is the first step to assess site suitability for proposed HUD-assisted projects near stationary hazards. Additional guidance on ASDs is available in the Department's guidebook "Siting of HUD-Assisted Projects Near Hazardous Facilities" and the regulation 24 CFR Part 51, Subpart C, Sitting of HUD-Assisted
Projects Near Hazardous Operations Handling Conventional Fuels or Chemicals of an Explosive or Flammable Nature.

Using current and historical aerial photographs along with state regulatory records, Terracon searched for aboveground storage tanks (ASTs) and/or tank batteries on adjoining and nearby properties. No ASTs were identified on adjoining and nearby properties. However, Terracon identified a pipeline easement with four pipelines containing crude oil and gasoline to the adjoining north of the site.

According to the Barrier Design Guidance for HUD Assisted Projects near Hazardous Facility dated October 2011, Section III – Exclusion and Limitation of this Guidance:

“Pipelines, such as high pressure natural gas transmission pipelines or liquid petroleum pipelines – Pipelines that transmit hazardous substances are not considered a hazard under 24 CFR Part 51 Subpart C if they are located underground or if they comply with applicable Federal, State or local safety standards.”

Due to the absence of above ground stationary containerized hazards of an explosive or fire prone nature a HUD blast zone map and calculation were not deemed necessary at this time.

7.9 Vapor Encroachment Screening

Terracon conducted a Tier 1 Vapor Encroachment Screening (VES), in general accordance with the procedures included in ASTM E 2600-15, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions. The purpose of the Tier 1 VES is to evaluate whether a vapor encroachment condition (VEC) may be present at the site. A VEC is defined by ASTM as the “presence or likely presence of chemical(s) of concern (COC) vapors in the subsurface of the target property caused by the release of vapors from contaminated soil or groundwater or both either on or near the target property as identified by the Tier I procedures in the Guide.”

This purpose was pursued through use of information collected in conjunction with the ESA, including existing/planned use of the site, type of structures located on the site, surrounding property description, user information, historical and physical records review, regulatory database review, manmade or natural conduits, as applicable, and a visual noninvasive reconnaissance of the site and adjoining properties. Limitations, ASTM deviations, and significant gaps (if identified) are evident from reviewing the applicable scope of services and the Phase I report text.

The scope of work for the Tier 1 VES does not include regulatory file reviews (other than those performed as part of the Phase I ESA) or subsurface investigations to evaluate soil, soil gas, or groundwater quality, nor does it evaluate the potential for vapor intrusion into on-site structures or assess indoor air quality.
7.9.1 Existing / Planned Use of the Site/Structures

The site is an approximate 3-acre tract of vacant land. Future planned use is multi-family residential development.

7.9.2 Surrounding Area Description

Please refer to Section 6.0.

7.9.3 User Specialized Knowledge

Please refer to Section 1.6.

7.9.4 Historical Records

Please refer to Section 3.0.

Based on the review of the historical information, the site has consisted of vacant land since 1921. The surrounding properties consisted of mostly vacant land from at least 1921 through the early 2010s, at which time commercial and residential development began in the vicinity of the site with increasing development through the present-day. Review of the historical aerial photographs identified historical oil and gas exploration and production (E&P) related activities on-site and/or in the vicinity (west-southwest) of the site during the late-1960s through the late-1970s. The historical E&P activities are further discussed in subsequent paragraphs. The present-day pipeline easement which abuts the northeast portion of the site was installed during the early 1950s.

7.9.5 Regulatory Records

Please refer to Section 4.1.

7.9.6 Physical Setting Characteristics

The site is located within the Beaumont Formation, characterized as a heterogeneous formation containing thick interbedded layers of clay, fine sand, and silt. The depth to groundwater is estimated to be approximately 40 feet below ground surface (bgs) and the direction of groundwater flow is estimated to be towards the east-southeast.

7.9.7 Natural or Man-made Conduits

The site is located in a developed area of the city containing utilities along the adjacent rights of way. Based on the presence of potential identified vapor sources in the site vicinity it is likely that man-made conduits, such as utility corridors, provide a potential path for vapor migration. Additionally, natural conduits, such as karst terrain/features, are not known to exist in the site vicinity.
7.9.8 Conclusions

The Tier 1 VES results are summarized herein, and the conclusion from the Tier 1 screening is presented below.

Based on the results of Terracon’s 2008 LSI report, physical setting of the site, the current and planned use of the site and the findings from the historical and regulatory records review, no potential VECs were identified in the site vicinity.

8.0 DECLARATION

I, Ashlee M. Terry, 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.

Ashlee M. Terry
Staff Scientist
APPENDIX A
EXHIBIT 1 – TOPOGRAPHIC MAP
EXHIBIT 2 – SITE DIAGRAM
PROPOSED CCRR PHASE II APARTMENT HOMES
SEQ OF REED ROAD AND PARK SOUTH VIEW
HOUSTON, TEXAS

SITE DIAGRAM
EXHIBIT 2

CONSULTING ENGINEERS & SCIENTISTS
TERRACON NO: 92177970
DATE: 1/20/2018

APPROXIMATE SCALE 1" = 200'

LEGEND
- - - SITE BOUNDARY
- - - PIPELINE
- - - EASEMENT

FAMILY DOLLAR

OFFICE/WAREHOUSE BUILDING (AT&T) 2710

OFFICE/WAREHOUSE BUILDING (SHARPS) 2730

OFFICE/RETAIL/WAREHOUSE

CYPRESS CREEK APARTMENTS (2910)

VACANT LAND

PARK SOUTH VIEW

PARKING

OFFICE/WAREHOUSE BUILDING (DIMARE) 9221

DETENTION POND

DRAINAGE DITCH

DRAINAGE DITCH
APPENDIX B
SITE PHOTOGRAPHS
View of the site looking northeast.

View of the site looking north.

View of the site looking south.

View of on-site debris.

View of the north adjacent property.

View of the east adjacent property.
Photo 7 View of the south adjacent property.

Photo 8 View of the west adjacent property.
APPENDIX C

HISTORICAL DOCUMENTATION AND USER QUESTIONNAIRE
### Client/User Required Questionnaire

<table>
<thead>
<tr>
<th>Person Completing Questionnaire</th>
<th>Name: Casey Bump</th>
<th>Company:</th>
<th>Phone: 512-505-0603</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Name</td>
<td>Cypress Creek at Reed Road Phase II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site Address</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Point of Contact for Access</td>
<td>Name: Casey Bump</td>
<td>Company:</td>
<td>Phone: 512-505-0603</td>
</tr>
<tr>
<td>Access Restrictions or Special Site Requirements?</td>
<td>x No ___ Yes (If yes, please explain)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Confidentiality Requirements?</td>
<td>x No ___ Yes (If yes, please explain)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Site Owner</td>
<td>Name: Stuart Shaw Family Partnership, Ltd.</td>
<td>Phone: 512-505-0603</td>
<td></td>
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<tr>
<td>Current Site Operator</td>
<td>Name:</td>
<td>Company:</td>
<td>Phone: Email:</td>
</tr>
<tr>
<td>Reasons for ESA</td>
<td>Financing</td>
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<td></td>
</tr>
<tr>
<td>(e.g., financing, acquisition, lease, etc.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anticipated Future Site Use</td>
<td>apartment homes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relevant Documents?</td>
<td>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.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### ASTM User Questionnaire

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Relief and Brownfields Revitalization Act of 2001 (the “Brownfields Amendments”), the user must respond to the following questions. Failure to provide this information to the environmental professional may result in significant data gaps, which may limit our ability to identify recognized environmental conditions resulting in a determination that “all appropriate inquiry” is not complete. This form represents a type of interview and as such, the user has an obligation to answer all questions in good faith, to the extent of their actual knowledge.

1) Did a search of recorded land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the property under federal, tribal, state, or local law (40 CFR 312.25)?
   x No ___ Yes (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)

2) Did a search of recorded land title records (or judicial records where appropriate) identify any activity and use limitations (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state, or local law (40 CFR 312.26)?
   x No ___ Yes (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)

3) Do you have any specialized knowledge or experience related to the site or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the site or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business (40 CFR 312-28)?
   x No ___ Yes (If yes, explain below)

4) Do you have actual knowledge of a lower purchase price because contamination is known or believed to be present at the site (40 CFR 312.29)?
   x No ___ Yes ___ Not applicable (If yes or Not applicable, explain below)

5) Are you aware of commonly known or reasonably ascertainable information about the site that would help the environmental professional to identify conditions indicative of releases or threatened releases (40 CFR 312.30)?
   x No ___ Yes (If yes, explain below)

6) Based on your knowledge and experience 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)?
   x No ___ Yes (If yes, explain below)

Comments or explanations:

Terracon has preformed work on this site before.

---

Please return this form with the signed authorization to proceed. Proposal No. P92177970

Responsive ■ Resourceful ■ Reliable
Proposed CCRR Phase II Apartment Homes
Park South View & Reed Road
Houston, Texas

AERIAL PHOTOGRAPH

11555 Clay Road, Ste 100
Houston, Texas 77043

1" = 500'

USGS

File Name: USGS
Date: 10/31/1962

Appendix C
AERIAL PHOTOGRAPH

Proposed CCRR Phase II Apartment Homes
Park South View & Reed Road
Houston, Texas

11555 Clay Road, Ste 100
Houston, Texas 77043

AMT

Project No: 92177970

Scale: 1" = 500'

File Name: USGS

Date: 11/12/1974

Project Manager: AMT

Drawn by: GEOSEARCH

Checked by: GR

Approved by: AMT

Appendix C
AERIAL PHOTOGRAPH

Proposed CCRR Phase II Apartment Homes
Park South View & Reed Road
Houston, Texas  77043

Appendix C
AERIAL PHOTOGRAPH

Project No: 92177970
Scale: 1" = 500'
File Name: USDA
Date: 2010

Proposed CCRR Phase II Apartment Homes
Park South View & Reed Road
11555 Clay Road, Ste 100
Houston, Texas  77043

Appendix C
Date: 01/05/18

GS Job Number: 98937

Company Name: Terracon Consultants-Houston

Project Number: 92177970

Site Information: Proposed Cypress Creek Reed Road Phase II Apartment Homes Park S View & Reed Rd, Houston, Harris, Texas, 77051

The collections of fire insurance maps listed below were reviewed according to the site information supplied by client. Based on the information provided, no coverage is available.

Library of Congress
University Publications of America
Other Libraries (universities, state, local, etc.).

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APPENDIX D
ENVIRONMENTAL DATABASE INFORMATION
January 2, 2018

City of Houston
Department of Health & Human Services
7411 Park Place
Houston, Texas 77087

Ph.: 832.393.5695
Fax: 832.393.5724
Email: evelynm.phillips@houstontx.gov

Attention: Evelyn Phillips

Terracon is currently conducting an Environmental Site Assessment (ESA) on a property located in Houston. I would like to request via the Freedom of Information Act and the Texas Open Records Act records pertaining to the following facility:

- 2910 Reed Road
  Houston, Texas 77051
  Key Map: 573B
  Project No. 92177970

Specific information pertaining to environmental health related complaints, and/or notices of violations recorded during inspections on or immediately adjacent to this site would be helpful in Terracon’s evaluation.

Terracon acknowledges there may be processing costs associated with this search for which we will be responsible. Please call me at (713) 690-8989 prior to copying any information, so we may ascertain an approximate cost or to set an appointment to review the files (if possible). Written response can be faxed to (713) 690-2055. Thank you for your timeliness in this matter.

Sincerely,

Gayle Decker
ESA Technician
Environmental Services
Houston Office
713-939-6437
DATE: January 2, 2018
TIME: 1:44 PM

TO: hfdemsrec@houstontx.gov
FAX NO.: 832.394.6882

COMPANY: COH Fire Dept. – HazMat Team
PHONE NO.: 713.939-6437

FROM: Gayle Decker
OFFICE: Houston

Total Pages Including Cover: 1

REMARKS: Please perform a hazardous material search for the following Key Map Coordinates: 573B.

Please reference project # 92177970 on reply.

Please fax information at your earliest convenience.
Thank you,
Gayle Decker

The information contained in this facsimile message is legally privileged and confidential information intended only for the use of the individual or entity named above. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please immediately notify us by telephone and return the original message to us at the address below via the US Postal Service. Thank you.
DATE: 1/8/2018

Gayle Decker
Terracon
11555 Clay Rd., Suite 100,
Houston, TX 77043

Re: Your Texas Public Information Act Request dated 1/2/2018, requesting any hazardous materials responses for 573-B.

Dear Ms. Decker,

In response to your above-referenced request, which was received by the City of Houston on 1/2/2018, the custodian of records has located 1 page(s) of responsive documents.

The responsive document will be mailed to your attention today.

If you have any questions regarding this matter, please contact Fire/EMS Records at 832.394.6867.

Sincerely,

Carolina Nicolas
Fire/EMS Records Division
1801 Smith Street, Suite 860
Houston, TX 77002
P: 832.394.6867
E: Carolina.Nicolas@houstontx.gov
<table>
<thead>
<tr>
<th>Date</th>
<th>Address</th>
<th>Mapkey</th>
<th>Chemical Released</th>
<th>Amount Released</th>
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<tbody>
<tr>
<td>01/30/2008</td>
<td>3037 DAWSON</td>
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<td>07/29/2008</td>
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<td>01/30/2009</td>
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<td>Undetrmnd Amt</td>
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<td>573 B</td>
<td>GASOLINE</td>
<td>UNKNOV Gallon</td>
</tr>
</tbody>
</table>
January 2, 2018

City of Houston
Department of Health & Human Services
7411 Park Place
Houston, Texas 77087

Ph.: 832.393.5695
Fax: 832.393.5724
Email: evelynn.phillips@houstontx.gov

Attention: Evelyn Phillips

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Sincerely,

[Signature]

Gayle Decker
ESA Technician
Environmental Services
Houston Office
713-939-6437

Terracon Consultants, Inc. 11555 Clay Road, Suite 100 Houston, Texas 77043 Registration No. F-3272
P [713] 690 6989 F [713] 690 8787 terracon.com

Environmental Facilities Geotechnical Materials
January 8, 2018

Gayle Decker
Terracon Consultants, Inc.
11555 Clay Rd., Suite 100
Houston, TX 77043

Dear Ms. Decker:

Information requested regarding property located at: 2910 Reed Rd. was not found in our files. A copy of your request is attached.

If you are in need of further assistance, please call me at 832-393-5112 or fax me 832-393-5271.

Sincerely,

Evelyn Phillips

Evelyn Phillips
Department of Health and Human Services
Office of Program Support
Director's Office

EP
Closed Landfill Inventory

January 2, 2018

Closed Landfill Inventory

Sources: Esri, HERE, DeLorme, Intermap, Increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo. © OpenStreetMap contributors and the GIS User Community
Radius Report

Target Property:
Proposed Cypress Creek Reed Road Phase II Apartment Homes
Park S View & Reed Rd
Houston, Harris County, Texas 77051

Prepared For:
Terracon Consultants-Houston

Order #: 98937
Job #: 216996
Project #: 92177970
Date: 01/03/2018
# Table of Contents

- **Target Property Summary** ............... 1
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- **Ortho Map** ............................. 12
- **Topographic Map** ....................... 13
- **Located Sites Summary** .................. 13
- **Elevation Summary** ...................... 16
- **Unlocated Sites Summary** ............... 43
- **Environmental Records Definitions** .... 45
- **Unlocatable Report** ..................... See Attachment
- **Zip Report** ............................ See Attachment
This report was designed by GeoSearch to meet or exceed the records search requirements of the All Appropriate Inquiries Rule (40 CFR §312.26) and the current version of the ASTM International E1527, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process or, if applicable, the custom requirements requested by the entity that ordered this report. The records and databases of records used to compile this report were collected from various federal, state and local governmental entities. It is the goal of GeoSearch to meet or exceed the 40 CFR §312.26 and E1527 requirements for updating records by using the best available technology. GeoSearch contacts the appropriate governmental entities on a recurring basis. Depending on the frequency with which a record source or database of records is updated by the governmental entity, the data used to prepare this report may be updated monthly, quarterly, semi-annually, or annually.

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Target Property Information

Proposed Cypress Creek Reed Road Phase II Apartment Homes
Park S View & Reed Rd
Houston, Texas 77051

Coordinates
Area centroid (-95.382863, 29.6558061)
46 feet above sea level

USGS Quadrangle
Bellaire, TX

Geographic Coverage Information

County/Parish: Harris (TX)
ZipCode(s):
Houston TX: 77045, 77051

Radon
* Target property is located in Radon Zone 3.
Zone 3 areas have a predicted average indoor radon screening level less than 2 pCi/L (picocuries per liter).
### Database Summary

#### FEDERAL LISTING

**Standard Environmental Records**

<table>
<thead>
<tr>
<th>Database</th>
<th>Acronym</th>
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# Database Summary

## STATE (TX) LISTING

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**Database Summary**

### TRIBAL LISTING

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#### FEDERAL LISTING

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**SUB-TOTAL** 0 1 2 0 3 0 6
### Database Radius Summary

#### STATE (TX) LISTING

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| **SUB-TOTAL** | 0 | 0 | 2 | 3 | 0 | 0 | 5 |
# Database Radius Summary

## TRIBAL LISTING

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**SUB-TOTAL**

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**TOTAL**

|               | 0          | 1         | 4         | 3         | 3         | 0           | 11        |

**NOTES:**

- **NS** = NOT SEARCHED
- **TP/AP** = TARGET PROPERTY/ADJACENT PROPERTY
## Located Sites Summary

Note: Standard environmental records are displayed in **bold**.

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<th>Distance From Site</th>
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### Target Property Elevation: 46 ft.

**NOTE:** Standard environmental records are displayed in **bold**.

#### EQUAL/HIGHER ELEVATION

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Resource Conservation & Recovery Act - Generator (RCRAGR06)

Distance from Property: 0.077 mi. (407 ft.) NNW
Elevation: 46 ft. (Equal to TP)

FACILITY INFORMATION
EPA ID#: TXR000083242  OWNER TYPE: PRIVATE
NAME: FAMILY DOLLAR #8856  OWNER NAME: REALTY INCOME PROPERTIES, LLC
ADDRESS: 2714 REED RD.  OPERATOR TYPE: PRIVATE
HOUSTON, TX 77051-2341  OPERATOR NAME: FAMILY DOLLAR STORES

CONTACT NAME: KEVIN STRAIGHT
CONTACT ADDRESS: PO BOX 1017
CHARLOTTE NC 28201
CONTACT PHONE: 704-708-1909
NON-NOTIFIER: NOT A NON-NOTIFIER
DATE RECEIVED BY AGENCY: 07/20/2015

CERTIFICATION
CERTIFICATION NAME: KEVIN STRAIGHT
CERTIFICATION TITLE: PROGRAM MGR., ENV. COMPLIANCE
CERTIFICATION SIGNED DATE: 11/13/2014

INDUSTRY CLASSIFICATION (NAICS)
45299 - ALL OTHER GENERAL MERCHANDISE STORES

CURRENT ACTIVITY INFORMATION
GENERATOR STATUS: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
LAST UPDATED DATE: 07/21/2015
SUBJECT TO CORRECTIVE ACTION UNIVERSE: NO
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: NO
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: NO
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: NO
CORRECTIVE ACTION WORKLOAD UNIVERSE: NO

IMPORTER: NO
MIXED WASTE GENERATOR: NO
RECYCLER: NO
TRANSPORTER: NO
ONSITE BURNER EXEMPTION: NO
FURNACE EXEMPTION: NO
USED OIL REFINER: NO
USED OIL TRANSFER FACILITY: NO
UNDERGROUND INJECTION: NO
UNIVERSAL WASTE DESTINATION FACILITY: NO
TRANSFER FACILITY: NO
USED OIL FUEL BURNER: NO
USED OIL PROCESSOR: NO
USED OIL FUEL MARKETER TO BURNER: NO
SPECIFICATION USED OIL MARKETER: NO
USED OIL TRANSPORTER: NO

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION
EVALUATIONS - NO EVALUATIONS REPORTED -
VIOLATIONS - NO VIOLATIONS REPORTED -
ENFORCEMENTS - NO ENFORCEMENTS REPORTED -

HAZARDOUS WASTE
D001 IGNITABLE WASTE
D004 ARSENIC
D005 BARIUM
D007 CHROMIUM
D008 LEAD
D009 MERCURY
D010 SELENIUM
D011 SILVER
D016 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)
D024 M-CRESOL
D035 METHYL ETHYL KETONE
U002 2-PROPANONE (I)
U002 ACETONE (I)

UNIVERSAL WASTE - NO UNIVERSAL WASTE REPORTED -
CORRECTIVE ACTION AREA - NO CORRECTIVE ACTION AREA INFORMATION REPORTED -
CORRECTIVE ACTION EVENT - NO CORRECTIVE ACTION EVENT REPORTED -

Back to Report Summary
**Industrial and Hazardous Waste Sites (IHW)**

**MAP ID# 2**

Distance from Property: 0.128 mi. (676 ft.) WNW
Elevation: 47 ft. (Higher than TP)

<table>
<thead>
<tr>
<th>FACILITY INFORMATION</th>
<th>OWNER INFORMATION</th>
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</thead>
<tbody>
<tr>
<td>REGISTRATION#: 77205</td>
<td>NAME: EXXON MOBIL CORPORATION</td>
</tr>
<tr>
<td>EPA ID: TXD988030623</td>
<td>ADDRESS: PO BOX 4552</td>
</tr>
<tr>
<td>TNRCC ID #: 31513</td>
<td>HOUSTON, TX 77210</td>
</tr>
<tr>
<td>NAME: REED ROAD EXOXN RS 66263</td>
<td>PHONE: 1-713-6569075</td>
</tr>
<tr>
<td>ADDRESS: 2800 REED RD</td>
<td>HOUSTON, TX 77051</td>
</tr>
<tr>
<td>CONTACT: CAROLYN A JONES</td>
<td></td>
</tr>
<tr>
<td>PHONE: 713-6569075</td>
<td></td>
</tr>
</tbody>
</table>

**BUSINESS DESCRIPTION:**


**INDUSTRIAL WASTE PERMIT #:** NOT REPORTED

**MUNICIPAL WASTE PERMIT #:** NOT REPORTED

**SIC CODE:** NOT REPORTED

**WASTE GENERATOR:** YES

**WASTE RECEIVER:** NO

**WASTE TRANSPORTER:** NO

**TRANSFER FACILITY:** NO

**MAQUILADORA (MEXICAN FACILITY):** NO

**STATUS:** INACTIVE

**AMOUNT OF WASTE GENERATED:** SMALL QUANTITY GENERATOR

**GENERATOR TYPE:** NON-INDUSTRIAL AND/OR MUNICIPAL

**THIS FACILITY IS A NOTIFIER:**

**THIS FACILITY IS NOT A STEERS REPORTER - (STATE OF TEXAS ENVIRONMENTAL ELECTRONIC REPORTING SYSTEM):**

**THIS FACILITY IS NOT REQUIRED TO SUBMIT AN ANNUAL WASTE SUMMARY REPORT:**

**THIS FACILITY IS NOT INVOLVED IN RECYCLING ACTIVITIES:**

**LAST UPDATE TO TRACS (TCEQ REGULATORY ACTIVITIES AND COMPLIANCE SYSTEM):** 12/01/2005

**ACTIVITIES**

**ACTIVITY TYPE:** UNKNOWN

**ACTIVITY DESCRIPTION:** NOT REPORTED

**WASTE**

**WASTE ID:** 60529

**WASTE CODE STATUS:** INACTIVE

**WASTE IS RADIOACTIVE:** NO

**WASTE IS TREATED OFF SITE:** NO

**GENERATOR'S DESCRIPTION OF WASTE:** NOT REPORTED

---

Back to Report Summary
Resource Conservation & Recovery Act - Non-Generator (RCRANGR06)

Distance from Property: 0.128 mi. (676 ft.) WNW
Elevation: 47 ft. (Higher than TP)

FACILITY INFORMATION
EPA ID#: TXD988030623
NAME: EXXON MOBIL CORPORATION
ADDRESS: 2800 REED RD
HOUSTON, TX 77051
OWNER TYPE: PRIVATE
OWNER NAME: EXXON MOBIL CORPORATION
OPERATOR TYPE: PRIVATE
OPERATOR NAME: EXXON MOBIL CORPORATION

CONTACT NAME: CAROLYN A JONES
CONTACT ADDRESS: PO BOX 4552
HOUSTON TX 77210
CONTACT PHONE: 713-656-9075

NON-NOTIFIER: NOT A NON-NOTIFIER
DATE RECEIVED BY AGENCY: 11/29/2005

CERTIFICATION
CERTIFICATION NAME: CAROLYN A JONES
CERTIFICATION TITLE: UNKNOWN
CERTIFICATION SIGNED DATE: 11/29/2005

INDUSTRY CLASSIFICATION (NAICS) - NO NAICS INFORMATION REPORTED -

CURRENT ACTIVITY INFORMATION
GENERATOR STATUS: NON-GENERATOR
LAST UPDATED DATE: 12/06/2005
SUBJECT TO CORRECTIVE ACTION UNIVERSE: NO
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: NO
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: NO
NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: NO
CORRECTIVE ACTION WORKLOAD UNIVERSE: NO
IMPORTER: NO
MIXED WASTE GENERATOR: NO
RECYCLER: NO
TRANSFER FACILITY: NO
TRANSPORTER: NO
USED OIL FUEL BURNER: NO
ONSITE BURNER EXEMPTION: NO
USED OIL PROCESSOR: NO
FURNACE EXEMPTION: NO
USED OIL FUEL MARKETER TO BURNER: NO
USED OIL REFINER: NO
SPECIFICATION USED OIL MARKETER: NO
USED OIL TRANSFER FACILITY: NO
USED OIL TRANSPORTER: NO

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS - NO EVALUATIONS REPORTED -
VIOLATIONS - NO VIOLATIONS REPORTED -
ENFORCEMENTS - NO ENFORCEMENTS REPORTED -

HAZARDOUS WASTE
D001 IGNITABLE WASTE
D018 BENZENE

UNIVERSAL WASTE - NO UNIVERSAL WASTE REPORTED -
CORRECTIVE ACTION AREA - NO CORRECTIVE ACTION AREA INFORMATION REPORTED -
CORRECTIVE ACTION EVENT - NO CORRECTIVE ACTION EVENT REPORTED -
SITE INFORMATION
ID#: 13990
NAME: BELLFORT LANDFILL
ADDRESS: 3300 BELLFORT BLVD.
HOUSTON, TX 77051
TYPE FUNDING: HAZARDOUS
PREDOMINANT PAST USE (ACREAGE):
GREENSPACE: NOT REPORTED
RESIDENTIAL: NOT REPORTED
COMMERCIAL: NOT REPORTED
INDUSTRIAL: 257
FUTURE USE (ACREAGE):
GREENSPACE: NOT REPORTED
RESIDENTIAL: NOT REPORTED
COMMERCIAL: NOT REPORTED
INDUSTRIAL: 257
PROPERTY HIGHLIGHT: NOT REPORTED
PROPERTY SIZE (Acres): 257
CURRENT OWNER: CITY OF HOUSTON
PROPERTY DESCRIPTION/ FORMER USE:
THE CITY OF HOUSTON PURCHASED THE BELLFORT LANDFILL SITE IN 1937 AND USED THE SITE MOSTLY AS A LANDFILL WITH AN INCINERATOR LOCATED IN ITS NORTHWEST CORNER. PROPOSED SOLAR ENERGY FARM REUSE WILL REQUIRE REPAIR OF LANDFILL CAP IN SOME AREAS.
CONTAMINATE(S): OTHER
CONTAMINATE(S) CLEANED UP: NOT REPORTED
MEDIA(S) AFFECTED: SOIL
MEDIA(S) CLEANED UP: NOT REPORTED
TYPE OF BROWNFIELD GRANT: TBA
ENVIRONMENTAL ASSESSMENT ACTIVITY: PHASE II ENVIRONMENTAL ASSESSMENT
ASSESSMENT START DATE: 6/8/2010 0:00
ASSESSMENT COMPLETION DATE: 10/21/2010 0:00
CLEANUP REQUIRED: UNKNOWN
STATE & TRIBAL ENROLLMENT ID: NOT REPORTED
STATE & TRIBAL ENROLLMENT DATE: NOT REPORTED
PROPERTY ENROLLED IN A STATE & TRIBAL PROGRAM?: NOT REPORTED
ARE INSTITUTIONAL CONTROLS REQUIRED?: UNKNOWN
TYPE OF BROWNFIELD GRANT: SHOWCASE COMMUNITY
ENVIRONMENTAL ASSESSMENT ACTIVITY: NOT REPORTED
ASSESSMENT START DATE: NOT REPORTED
ASSESSMENT COMPLETION DATE: NOT REPORTED
CLEANUP REQUIRED: UNKNOWN
STATE & TRIBAL ENROLLMENT ID: NOT REPORTED
STATE & TRIBAL ENROLLMENT DATE: NOT REPORTED
PROPERTY ENROLLED IN A STATE & TRIBAL PROGRAM?: NOT REPORTED
ARE INSTITUTIONAL CONTROLS REQUIRED?: UNKNOWN
MAP ID# 4
Distance from Property: 0.239 mi. (1,262 ft.) S
Elevation: 45 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRATION#: 96485  EPA ID: NOT REPORTED
TNRCC ID #: 131830
NAME: HUNTING ENERGY SERVICES PARK VIEW SOUTH
ADDRESS: 9254 PARK SOUTH VW
HOUSTON, TX 77051
CONTACT: TONY FRICKS
PHONE: 713-4333643

OWNER INFORMATION

NAME: HUNTING ENERGY SERVICES INC
ADDRESS: 1018 RANKIN RD
HOUSTON, TX 77073
PHONE: 1-985-4934800

BUSINESS DESCRIPTION: NOT REPORTED
INDUSTRIAL WASTE PERMIT #: NOT REPORTED
MUNICIPAL WASTE PERMIT #: NOT REPORTED
SIC CODE: NOT REPORTED
WASTE GENERATOR: YES
WASTE TRANSPORTER: NO
TRANSFER FACILITY: NO
MAQUILADORA (MEXICAN FACILITY): NO
STATUS: ACTIVE
AMOUNT OF WASTE GENERATED: NOT A HW GENERATOR
GENERATOR TYPE: INDUSTRIAL

THIS FACILITY IS A NOTIFIER
THIS FACILITY IS NOT A STEERS REPORTER - (STATE OF TEXAS ENVIRONMENTAL ELECTRONIC REPORTING SYSTEM)
THIS FACILITY IS REQUIRED TO SUBMIT AN ANNUAL WASTE REPORT
THIS FACILITY IS NOT INVOLVED IN RECYCLING ACTIVITIES
LAST UPDATE TO TRACS (TCEQ REGULATORY ACTIVITIES AND COMPLIANCE SYSTEM): 08/31/2016

ACTIVITIES

ACTIVITY TYPE: UNKNOWN
ACTIVITY DESCRIPTION: NOT REPORTED

WASTE

WASTE ID: 385814
WASTE CODE STATUS: ACTIVE
WASTE IS RADIOACTIVE: NO
WASTE IS TREATED OFF SITE: NO
GENERATOR'S DESCRIPTION OF WASTE: WATER WITH OIL; GENERATED FROM OIL SKIMMING MACHINES

WASTE ID: 385815
WASTE CODE STATUS: ACTIVE
WASTE IS RADIOACTIVE: NO
WASTE IS TREATED OFF SITE: NO
GENERATOR'S DESCRIPTION OF WASTE: PLANT TRASH; PLANT TRASH MEETING THE DEFINITION OF FORM CODE 999
Leaking Petroleum Storage Tanks (LPST)

MAP ID# 5
Distance from Property: 0.333 mi. (1,758 ft.) ENE
Elevation: 46 ft. (Equal to TP)

FACILITY INFORMATION
GEOSEARCH ID: 107097
LPST ID: 107097
FACILITY ID: 0034845
NAME: AM MINI MART 15
ADDRESS: 9202 ROSEHAVEN DR
HOUSTON, TX

LEAKING TANK DETAILS
LPST ID: 107097
NAME: AM MINI MART 15
FACILITY LOCATION: NOT REPORTED
PRIORITY CODE: 5 - MINOR SOIL CONTAMINATION - DOES NOT REQUIRE A RAP
CORRECTIVE ACTION STATUS CODE: 6A - FINAL CONCURRENCE ISSUED
CORRECTIVE ACTION START DATE: 9/24/1993
REPORTED DATE: 8/12/1993
ENTERED DATE: 9/24/1993

PRP INFORMATION
NAME: AM MINI MART
ADDRESS: ADDRESS NOT REPORTED
          HOUSTON TX 77088
CONTACT: NOT REPORTED
PHONE: NOT REPORTED

UNDERGROUND STORAGE TANK
TANK ID: 1
INSTALLATION DATE: 08/01/1993
TANK CAPACITY (GAL): 10000
STATUS: IN USE
INTERNAL PROTECTION DATE: NOT REPORTED
TANK DESIGN SINGLE WALL: YES
PIPE DESIGN SINGLE WALL: NO

TANK DETAILS
MATERIAL: COMPOSITE
CORROSION PROTECTION: COMPOSITE TANK (STEEL W/FRP EXTERNAL LAMINATE)
EXTERNAL CONTAINMENT: NOT REPORTED
TANK COMPLIANCE FLAG: YES
CORROSION PROTECTION COMPLIANCE FLAG: YES
CORROSION PROTECTION VARIANCE: NO VARIANCE
### Compartment Details

- **UST Compartment ID:** 125101
- **Tank ID:** 1
- **Compartment Letter:** A
- **Substances:** Gasoline
- **Other Substances:** Not Reported
- **Capacity (Gal):** 10000
- **Compartment Release Detection:** SIR (Stat. Inventory Reconciliation) & Inventory Control
- **Spill Containment and Overfill Prevention:** Tight-Fill Fitting Container/Bucket/Sump

### Piping Systems

- **Material:** FRP
- **Corrosion Protection:** FRP Tank or Piping (Noncorrodible)
- **External Containment:** Not Reported
- **Connectors & Valves:** Not Reported

### Not Reported

- **Corrosion Protection:** FRP Tank or Piping (Noncorrodible)

### Pipe Compliance Flag

- **Corrosion Protection Compliance Flag:** Yes
- **Corrosion Protection Variance:** No Variance

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<thead>
<tr>
<th>Tank ID</th>
<th>Number of Compartments</th>
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</thead>
<tbody>
<tr>
<td>1A</td>
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<table>
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<tr>
<th>Installation Date</th>
<th>Registration Date</th>
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<tbody>
<tr>
<td>01/01/1956</td>
<td>05/02/1986</td>
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<tr>
<th>Status</th>
<th>Empty Tank</th>
<th>Regulatory Status</th>
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<tbody>
<tr>
<td>Removed From Ground</td>
<td>Not Empty</td>
<td>Fully Regulated</td>
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<table>
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<tr>
<th>Internal Protection Date</th>
<th>Status Begin Date</th>
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<tbody>
<tr>
<td>Not Reported</td>
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<table>
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<tr>
<th>Tank Design Single Wall</th>
<th>Tank Design Double Wall</th>
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<th>Pipe Design Single Wall</th>
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<tbody>
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</tbody>
</table>

### Compartment Details

- **UST Compartment ID:** 125098
- **Tank ID:** 1A
- **Compartment Letter:** A
- **Substances:** Gasoline
- **Other Substances:** Not Reported
- **Capacity (Gal):** 6000
- **Compartment Release Detection:** Vapor Monitoring
- **Spill Containment and Overfill Prevention:** Not Reported

### Piping Systems

- **Material:** Steel
- **Corrosion Protection:** Not Reported
- **External Containment:** Not Reported

### Not Reported

- **Corrosion Protection:** FRP Tank or Piping (Noncorrodible)

### Corrosion Protection Compliance Flag

- **Corrosion Protection Compliance Flag:** Yes
- **Corrosion Protection Variance:** No Variance

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<tr>
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<td>No</td>
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<table>
<thead>
<tr>
<th>Pipe Design Single Wall</th>
<th>Pipe Design Double Wall</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>No</td>
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</tbody>
</table>
Leaking Petroleum Storage Tanks (LPST)

MATERIAL: NOT REPORTED
CORROSION PROTECTION: NOT REPORTED
EXTERNAL CONTAINMENT: NOT REPORTED
CONNECTORS & VALVES: NOT REPORTED

TANK ID: 2
INSTALLATION DATE: 08/01/1993
TANK CAPACITY (GAL): 10000
STATUS: IN USE
INTERNAL PROTECTION DATE: NOT REPORTED
TANK DESIGN SINGLE WALL: YES
PIPE DESIGN SINGLE WALL: NO

TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: NO
CORROSION PROTECTION VARIANCE: NO VARIANCE

TANK DETAILS
MATERIAL: COMPOSITE
CORROSION PROTECTION: COMPOSITE TANK (STEEL W/FRP EXTERNAL LAMINATE)
EXTERNAL CONTAINMENT: NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: YES
CORROSION PROTECTION VARIANCE: NO VARIANCE

COMPARTMENT DETAILS
UST COMPARTMENT ID: 125102
TANK ID: 2
COMPARTMENT LETTER: A
SUBSTANCES: GASOLINE
OTHER SUBSTANCES: NOT REPORTED
CAPACITY (GAL): 10000
COMPARTMENT RELEASE DETECTION: SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL
SPILL CONTAINMENT AND OVERFILL PREVENTION: TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP

PIPING SYSTEMS
MATERIAL: FRP
CORROSION PROTECTION: FRP TANK OR PIPING (NONCORRODIBLE)
EXTERNAL CONTAINMENT: NOT REPORTED
CONNECTORS & VALVES: NOT REPORTED

TANK ID: 2A
NUMBER OF COMPARTMENTS: 1

---

www.geo-search.com  888-396-0042
Leaking Petroleum Storage Tanks (LPST)

INSTALLATION DATE: 01/01/1956  REGISTRATION DATE: 05/02/1986
TANK CAPACITY (GAL): 6000  EMPTY TANK: NOT EMPTY
STATUS: REMOVED FROM GROUND  STATUS BEGIN DATE: 08/09/1993
INTERNAL PROTECTION DATE: NOT REPORTED  REGULATORY STATUS: FULLY REGULATED
TANK DESIGN SINGLE WALL: NO  TANK DESIGN DOUBLE WALL: NO
PIPE DESIGN SINGLE WALL: NO  PIPE DESIGN DOUBLE WALL: NO

TANK DETAILS
MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: NO
CORROSION PROTECTION VARIANCE: NO VARIANCE

COMPARTMENT DETAILS
UST COMPARTMENT ID: 125100
TANK ID: 2A
COMPARTMENT LETTER: A
SUBSTANCES: GASOLINE
OTHER SUBSTANCES: NOT REPORTED
CAPACITY (GAL): 6000
COMPARTMENT RELEASE DETECTION: VAPOR MONITORING
SPILL CONTAINMENT AND OVERFILL PREVENTION: NOT REPORTED

PIPING SYSTEMS
MATERIAL: NOT REPORTED
CORROSION PROTECTION: NOT REPORTED
EXTERNAL CONTAINMENT: NOT REPORTED,
CONNECTORS & VALVES:
NOT REPORTED
CORROSION PROTECTION: NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: NO
CORROSION PROTECTION VARIANCE: NO VARIANCE

TANK ID: 3  NUMBER OF COMPARTMENTS: 1
INSTALLATION DATE: 01/01/1974  REGISTRATION DATE: 05/02/1986
TANK CAPACITY (GAL): 4000  EMPTY TANK: NOT EMPTY
STATUS: REMOVED FROM GROUND  STATUS BEGIN DATE: 08/09/1993
INTERNAL PROTECTION DATE: NOT REPORTED  REGULATORY STATUS: FULLY REGULATED
TANK DESIGN SINGLE WALL: NO  TANK DESIGN DOUBLE WALL: NO
PIPE DESIGN SINGLE WALL: NO  PIPE DESIGN DOUBLE WALL: NO

TANK DETAILS
MATERIAL:
STEEL
Corrosion Protection: Not Reported
External Containment: Not Reported
Tank Compliance Flag
Corrosion Protection Compliance Flag: No
Corrosion Protection Variance: No Variance

Compartment Details
UST Compartment ID: 125099
Tank ID: 3
Compartment Letter: A
Substances: Gasoline
Other Substances: Not Reported
Capacity (GAL): 4000
Compartment Release Detection: Vapor Monitoring
Spill Containment and Overfill Prevention: Not Reported

Piping Systems
Material: Not Reported
Corrosion Protection: Not Reported
External Containment: Not Reported
Connectors & Valves: Not Reported

Not Reported
Corrosion Protection: Not Reported
Pipe Compliance Flag
Corrosion Protection Compliance Flag: No
Corrosion Protection Variance: No Variance

Aboveground Storage Tank Information
No Aboveground Storage Tank Data Reported for this Facility
Leaking Petroleum Storage Tanks (LPST)

MAP ID# 6
Distance from Property: 0.337 mi. (1,779 ft.) WNW
Elevation: 51 ft. (Higher than TP)

FACILITY INFORMATION
GEOSEARCH ID: 117918
LPST ID: 117918
FACILITY ID: 0072040
NAME: HANDI PLUS 332
ADDRESS: 2665 REED RD
HOUSTON, TX

LEAKING TANK DETAILS
LPST ID: 117918
NAME: HANDI PLUS 332
FACILITY LOCATION: NOT REPORTED
PRIORITY CODE: 4.1 - GW IMPACTED NO APPARENT THREATS OR IMPACTS TO RECEPTORS
CORRECTIVE ACTION STATUS CODE: 6A - FINAL CONCURRENCE ISSUED
CORRECTIVE ACTION START DATE: 11/24/2008
REPORTED DATE: 10/24/2008
ENTERED DATE: 11/24/2008

PRP INFORMATION
NAME: SUSSER PETROLEUM CO INC
ADDRESS: ADDRESS NOT REPORTED
CORPUS CHRISTI TX 78415
CONTACT: NOT REPORTED
PHONE: NOT REPORTED

UNDERGROUND STORAGE TANK
TANK ID: 1
NUMBER OF COMPARTMENTS: 1
INSTALLATION DATE: 04/05/1999
REGISTRATION DATE: 05/26/1999
TANK CAPACITY (GAL): 12032
EMPTY TANK: NOT EMPTY
STATUS: IN USE
STATUS BEGIN DATE: 04/05/1999
INTERNAL PROTECTION DATE: NOT REPORTED
REGULATORY STATUS: FULLY REGULATED
TANK DESIGN SINGLE WALL: YES
TANK DESIGN DOUBLE WALL: NO
PIPE DESIGN SINGLE WALL: NO
PIPE DESIGN DOUBLE WALL: YES

TANK DETAILS
MATERIAL: COMPOSITE
CORROSION PROTECTION:
COMPOSITE TANK (STEEL W/FRP EXTERNAL LAMINATE)
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: YES
CORROSION PROTECTION VARIANCE: NO VARIANCE
COMPARTMENT DETAILS
UST COMPARTMENT ID: 169028
TANK ID: 1
COMPARTMENT LETTER: A
SUBSTANCES: GASOLINE
OTHER SUBSTANCES: NOT REPORTED
CAPACITY (GAL): 12032
COMPARTMENT RELEASE DETECTION: AUTOMATIC TANK GAUGE TEST & INVENTORY CONTROL, SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL
SPILL CONTAINMENT AND OVERFILL PREVENTION: TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP, FACTORY - BUILT
SPILL CONTAINER/BUCKET/SUMP, FLOW RESTRICTOR VALUE
PIPING SYSTEMS
MATERIAL: NONMETALLIC FLEXIBLE PIPING
CORROSION PROTECTION: FRP TANK OR PIPING (NONCORRODIBLE)
EXTERNAL CONTAINMENT: NOT REPORTED
CONNECTORS & VALVES: OR FLOODED ATMOSPHERE
CORROSION PROTECTION: FRP TANK OR PIPING (NONCORRODIBLE)
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: YES
CORROSION PROTECTION VARIANCE: NO VARIANCE
TANK ID: 2
NUMBER OF COMPARTMENTS: 2
INSTALLATION DATE: 04/05/1999
REGISTRATION DATE: 05/26/1999
TANK CAPACITY (GAL): 12136
EMPTY TANK: NOT EMPTY
STATUS: IN USE
STATUS BEGIN DATE: 04/05/1999
INTERNAL PROTECTION DATE: NOT REPORTED
REGULATORY STATUS: FULLY REGULATED
TANK DESIGN SINGLE WALL: YES
TANK DESIGN DOUBLE WALL: NO
PIPE DESIGN SINGLE WALL: NO
PIPE DESIGN DOUBLE WALL: YES
TANK DETAILS
MATERIAL: COMPOSITE
CORROSION PROTECTION:
COMPOSITE TANK (STEEL W/FRP EXTERNAL LAMINATE)
EXTERNAL CONTAINMENT: NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: YES
CORROSION PROTECTION VARIANCE: NO VARIANCE
COMPARTMENT DETAILS
UST COMPARTMENT ID: 169029
TANK ID: 2
COMPARTMENT LETTER: A
SUBSTANCES: GASOLINE
OTHER SUBSTANCES: NOT REPORTED
CAPACITY (GAL): 8000
COMPARTMENT RELEASE DETECTION: AUTOMATIC TANK GAUGE TEST & INVENTORY CONTROL, SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL
Leaking Petroleum Storage Tanks (LPST)

RECONCILIATION) & INVENTORY CONTROL
SPILL CONTAINMENT AND OVERFILL PREVENTION: TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP, FACTORY - BUILT
SPILL CONTAINER/BUCKET/SUMP, FLOW RESTRICTOR VALUE

PIPING SYSTEMS
MATERIAL: FRP
CORROSION PROTECTION: FRP TANK OR PIPING (NONCORRODIBLE)
EXTERNAL CONTAINMENT: NOT REPORTED
CONNECTORS & VALVES:

NOT REPORTED
CORROSION PROTECTION: FRP TANK OR PIPING (NONCORRODIBLE)

PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: YES
CORROSION PROTECTION VARIANCE: NO VARIANCE

TANK ID: 2
INSTALLATION DATE: 04/05/1999
TANK CAPACITY (GAL): 12136
STATUS: IN USE
INTERNAL PROTECTION DATE: NOT REPORTED
TANK DESIGN SINGLE WALL: YES
PIPE DESIGN SINGLE WALL: NO

TANK DETAILS
MATERIAL:
COMPOSITE
CORROSION PROTECTION:
COMPOSITE TANK (STEEL W/FRP EXTERNAL LAMINATE)
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: YES
CORROSION PROTECTION VARIANCE: NO VARIANCE

COMPARTMENT DETAILS
UST COMPARTMENT ID: 169030
TANK ID: 2
COMPARTMENT LETTER: B
SUBSTANCES: DIESEL
OTHER SUBSTANCES: NOT REPORTED
CAPACITY (GAL): 4136
COMPARTMENT RELEASE DETECTION: AUTOMATIC TANK GAUGE TEST & INVENTORY CONTROL, SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL
SPILL CONTAINMENT AND OVERFILL PREVENTION: TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP, FACTORY - BUILT
SPILL CONTAINER/BUCKET/SUMP, FLOW RESTRICTOR VALUE

PIPING SYSTEMS
MATERIAL: FRP
CORROSION PROTECTION: FRP TANK OR PIPING (NONCORRODIBLE)
EXTERNAL CONTAINMENT: NOT REPORTED
CONNECTORS & VALVES:
Leaking Petroleum Storage Tanks (LPST)

NOT REPORTED
CORROSION PROTECTION: FRP TANK OR PIPING (NONCORRODIBLE)
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: YES
CORROSION PROTECTION VARIANCE: NO VARIANCE

TANK ID: 3
INSTALLATION DATE: 04/05/1999
TANK CAPACITY (GAL): 12032
STATUS: IN USE
INTERNAL PROTECTION DATE: NOT REPORTED
TANK DESIGN SINGLE WALL: YES
PIPE DESIGN SINGLE WALL: NO
TANK DESIGN DOUBLE WALL: NO
PIPE DESIGN DOUBLE WALL: YES

NUMBER OF COMPARTMENTS: 1
REGISTRATION DATE: 05/26/1999
EMPTY TANK: NOT EMPTY
STATUS BEGIN DATE: 04/05/1999
REGULATORY STATUS: FULLY REGULATED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: YES
CORROSION PROTECTION VARIANCE: NO VARIANCE

COMPARTMENT DETAILS
UST COMPARTMENT ID: 169031
TANK ID: 3
COMPARTMENT LETTER: A
SUBSTANCES: DIESEL
OTHER SUBSTANCES: NOT REPORTED
CAPACITY (GAL): 12032
COMPARTMENT RELEASE DETECTION: AUTOMATIC TANK GAUGE TEST & INVENTORY CONTROL,SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL
SPILL CONTAINMENT AND OVERFILL PREVENTION: TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP,FACTORY - BUILT
SPILL CONTAINER/BUCKET/SUMP,FLOW RESTRICTOR VALUE

PIPING SYSTEMS
MATERIAL: NONMETALLIC FLEXIBLE PIPING
CORROSION PROTECTION: FRP TANK OR PIPING (NONCORRODIBLE)
EXTERNAL CONTAINMENT: NOT REPORTED
CONNECTORS & VALVES:

NOT REPORTED
CORROSION PROTECTION: FRP TANK OR PIPING (NONCORRODIBLE)
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: YES
CORROSION PROTECTION VARIANCE: NO VARIANCE

ABOVEGROUND STORAGE TANK INFORMATION
NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY
<table>
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<tr>
<th>ID NUMBER</th>
<th>10001</th>
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<tbody>
<tr>
<td>TYPE</td>
<td>VOLUNTARY CLEANUP PROGRAM</td>
</tr>
<tr>
<td>SITE ADDRESS</td>
<td>E &amp; W OF HWY 288 BETWEEN REED RD AND BELFORT AVE</td>
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<tr>
<td>CITY</td>
<td>HOUSTON</td>
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<tr>
<td>COUNTY</td>
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<td>STATE</td>
<td>TX</td>
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<td>ZIPCODE</td>
<td>NOT REPORTED</td>
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<td>ACRES</td>
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<td>STATUS</td>
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<td>FINAL CERTIFICATION OF COMPLETION</td>
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### FACILITY INFORMATION

- **EPA ID #**: TXD000807875
- **Owner Type**: PRIVATE
- **Name**: COOK COMPOSITES AND POLYMERS
- **Owner Name**: CHARDONOL CORPORATION
- **Address**: 2434 HOLMES ROAD - LANDFILL
  - HOUSTON, TX 77051
- **Operator Type**: PRIVATE
- **Operator Name**: MAGNA CORPORATION
- **Contact Name**: RON LOUTERS
- **Contact Address**: 2434 HOLMES ROAD
  - HOUSTON, TX 77051
- **Contact Phone**: 713-799-1800
- **Non-Notifier**: NOT A NON-NOTIFIER
- **Date Received by Agency**: 02/01/2013
- **Certification**: NO CERTIFICATION REPORTED

### INDUSTRY CLASSIFICATION (NAICS)

325998 - ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT AND PREPARATION MANUFACTURING

### CURRENT ACTIVITY INFORMATION

- **Generator Status**: NON-GENERATOR
- **Last Updated Date**: 02/01/2013
- **Subject to Corrective Action Universe**: YES
- **TDSFs Potentially Subject to Corrective Action Under 3004 (u)/(v) Universe**: NO
- **TDSFs Only Subject to Corrective Action Under Discretionary Authorities Universe**: YES
- **Non TDSFs Where RCRA Corrective Action Has Been Imposed Universe**: NO
- **Corrective Action Workload Universe**: YES

- **Importer**: NO
- **Mixed Waste Generator**: NO
- **Recycler**: NO
- **Transporter**: NO
- **Onsite Burner Exemption**: NO
- **Furnace Exemption**: NO
- **Used Oil Refiner**: NO
- **Used Oil Transfer Facility**: NO
- **Underground Injection**: NO
- **Universal Waste Destination Facility**: NO
- **Transfer Facility**: NO
- **Used Oil Fuel Burner**: NO
- **Used Oil Processor**: NO
- **Used Oil Fuel Marketer to Burner**: NO
- **Specification Used Oil Marketer**: NO
- **Used Oil Transporter**: NO

### COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

- **Evaluations**
  - 02/20/1987: GME GROUNDWATER MONITORING EVALUATION

- **Violations**
  - 02/20/1987: XXS STATE STATUTE OR REGULATION

- **Enforcements**
  - 02/20/1987: 110 VERBAL INFORMAL

### HAZARDOUS WASTE

- D001: IGNITABLE WASTE
- D002: CORROSIVE WASTE
- D009: MERCURY
THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- NO UNIVERSAL WASTE REPORTED -

CORRECTIVE ACTION AREAS (RELEASE)

ENTIRE FACILITY

CORRECTIVE ACTION EVENT

CA EVENT: DATE: EVENT DESCRIPTION:
CA400 02/18/2014 REMEDY DECISION
CA550RC 02/18/2014 REMEDY CONSTRUCTION-REMEDY CONSTRUCTED
CA800YE 02/18/2014 READY FOR ANTICIPATED USE DETERMINATION - READY FOR ANTICIPATED USE
CA999NF 02/18/2014 CA PROCESS IS TERMINATED-NO FURTHER ACTION
CA770NG 03/28/2005 ENGINEERING CONTROLS ESTABLISHED-NON-GROUNDWATER CONTROL
CA750YE 06/07/2001 RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
CA725YE 06/06/2001 HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
CA075HI 05/14/1992 CA PRIORITIZATION-HIGH CA PRIORITY
CA050 10/07/1991 RFA COMPLETED
CA070YE 10/07/1991 DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY
CA770GW 01/01/1986 ENGINEERING CONTROLS ESTABLISHED-GROUNDWATER CONTROL

Back to Report Summary
Distance from Property: 0.895 mi. (4,726 ft.) NNW
Elevation: 48 ft. (Higher than TP)

FACILITY INFORMATION
EPA ID#: TXD108999863
NAME: POLYNT COMPOSITES USA
ADDRESS: 2434 HOLMES RD
HOUSTON, TX 77051-1016
CONTACT NAME: STACIE CONTE
CONTACT ADDRESS: 2434 HOLMES RD
HOUSTON, TX 77051-1016
CONTACT PHONE: 713-799-1800 5340
NON-NOTIFIER: NOT A NON-NOTIFIER
DATE RECEIVED BY AGENCY: 07/27/2017

CERTIFICATION
CERTIFICATION NAME: CERTIFICATION TITLE: CERTIFICATION SIGNED DATE:
STACIE CONTE SITE MANAGER 07/27/2017
STACIE CONTE SITE MANAGER 03/17/2017
JOE JENKO PLANT MANAGER 08/04/2016
JOE JENKO PLANT MANAGER 08/04/2016
STACIE CONTE AUTHORIZED COMPANY AGENT 03/01/2016
ERIC NELSON DIRECTOR OF HSEQ 09/02/2014
ERIC NELSON DIRECTOR OF HSEQ 07/25/2014
ERIC NELSON AUTHORIZED COMPANY AGENT 03/01/2014
ERIC NELSON DIRECTOR OF HSEQ 08/20/2013
ERIC NELSON DIRECTOR OF HSEQ 05/09/2013
ERIC NELSON DIRECTOR OF HSEQ 12/05/2012
JON SCHUCKMAN ENV MGR 08/17/2012
ERIC NELSON AUTHORIZED COMPANY AGENT 03/01/2012
JON SCHUCKMAN ENV MGR 02/29/2012
JON SCHUCKMAN ENVIRONMENTAL ENGINEER 03/15/2011
JON SCHUCKMAN AUTHORIZED COMPANY AGENT 03/01/2010
JON SCHUCKMAN ENVIRONMENTAL E 09/08/2009
JON SCHUCKMAN ENVIRONMENTAL E 08/11/2009
JON SCHUCKMAN ENVIRONMENTAL E 06/01/2009
JON SCHUCKMAN ENVIRONMENTAL E 03/17/2009
JON SCHUCKMAN ENVIRONMENTAL E 03/04/2008
JON SCHUCKMAN AUTHORIZEDAGENT 03/01/2008
JON SCHUCKMAN ENVIRONMENTAL E 12/11/2007
JON SCHUCKMAN ENVIRONMENTAL E 06/28/2007
JON SCHUCKMAN ENVIRONMENTAL E 04/24/2007
JON SCHUCKMAN UNKNOWN 09/26/2006
JON SCHUCKMAN UNKNOWN 07/21/2006
JON SCHUCKMAN UNKNOWN 04/12/2006
JON SCHUCKMAN AUTHORIZEDAGENT 03/01/2006
JON SCHUCKMAN UNKNOWN 11/29/2005
JON SCHUCKMAN UNKNOWN 08/16/2005
JON SCHUCKMAN  UNKNOWN 08/02/2005
JON SCHUCKMAN  UNKNOWN 07/07/2005
JON SCHUCKMAN  UNKNOWN 04/12/2005
JON SCHUCKMAN  UNKNOWN 04/06/2005
JOHN BAUER  AUTHORIZED AGENT 03/01/2004
JOHN BAUER  AUTHORIZED AGENT 03/01/2002
RON LAUTERS  AUTHORIZED COMP 01/25/2000
RON LAUTERS  AUTHORIZED AGNT 01/25/1998
RICHARD A HORGER  SAFT.& EVRN.MGR 01/20/1994
CHUCK J EARHART  SAFETY MANAGER 08/17/1992

INDUSTRY CLASSIFICATION (NAICS)
325211 - PLASTICS MATERIAL AND RESIN MANUFACTURING

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: LARGE QUANTITY GENERATOR  LAST UPDATED DATE: 08/10/2017
SUBJECT TO CORRECTIVE ACTION UNIVERSE: NO
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: NO
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: NO
NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: NO
CORRECTIVE ACTION WORKLOAD UNIVERSE: YES

IMPORTER: NO  UNDERGROUND INJECTION: NO
MIXED WASTE GENERATOR: NO  UNIVERSAL WASTE DESTINATION FACILITY: NO
RECYCLER: NO  TRANSFER FACILITY: NO
TRANSPORTER: NO  USED OIL FUEL BURNER: NO
ONSITE BURNER EXEMPTION: NO  USED OIL PROCESSOR: NO
FURNACE EXEMPTION: NO  USED OIL FUEL MARKETER TO BURNER: NO
USED OIL REFINER: NO  SPECIFICATION USED OIL MARKETER: NO
USED OIL TRANSFER FACILITY: NO  USED OIL TRANSPORTER: NO

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS
01/29/2013  NRR  NON-FINANCIAL RECORD REVIEW
10/18/2012  CEI  COMPLIANCE EVALUATION INSPECTION ON-SITE
06/20/2005  NRR  NON-FINANCIAL RECORD REVIEW
03/28/2005  CDI  CASE DEVELOPMENT INSPECTION
03/21/2005  CEI  COMPLIANCE EVALUATION INSPECTION ON-SITE
04/28/2002  CEI  COMPLIANCE EVALUATION INSPECTION ON-SITE
04/03/1997  CEI  COMPLIANCE EVALUATION INSPECTION ON-SITE
01/29/1996  NRR  NON-FINANCIAL RECORD REVIEW
11/28/1995  CEI  COMPLIANCE EVALUATION INSPECTION ON-SITE
10/02/1987  CEI  COMPLIANCE EVALUATION INSPECTION ON-SITE

VIOLATIONS
10/18/2012  265.J  TSD IS-CONTAINER USE AND MANAGEMENT
10/18/2012  265.J  TSD IS-CONTAINER USE AND MANAGEMENT
10/18/2012  265.J  TSD IS-TANK SYSTEM STANDARDS
10/18/2012  268.A  LDR - GENERAL
10/18/2012  268.E  LDR - STORAGE PROHIBITIONS
10/18/2012  268.E  LDR - STORAGE PROHIBITIONS
10/18/2012  279.C  USED OIL - GENERATORS
10/18/2012  279.C  USED OIL - GENERATORS
10/18/2012  XXS  STATE STATUTE OR REGULATION
10/18/2012  XXS  STATE STATUTE OR REGULATION
03/21/2005  262.A  GENERATORS - GENERAL
03/21/2005  262.C  GENERATORS - PRE-TRANSPORT
03/21/2005  262.C  GENERATORS - PRE-TRANSPORT
03/21/2005  265.D  TSD IS-CONTINGENCY PLAN AND EMERGENCY PROCEDURES
03/21/2005  265.I  TSD IS-CONTAINER USE AND MANAGEMENT
03/21/2005  265.I  TSD IS-CONTAINER USE AND MANAGEMENT
03/21/2005  268.E  LDR - STORAGE PROHIBITIONS
03/21/2005  279.C  USED OIL - GENERATORS
03/21/2005  XXS  STATE STATUTE OR REGULATION
03/21/2005  XXS  STATE STATUTE OR REGULATION
04/28/2002  270.C  PERMITS - CONDITIONS
04/03/1997  XXS  STATE STATUTE OR REGULATION
11/28/1995  XXS  STATE STATUTE OR REGULATION
10/02/1987  262.B  GENERATORS - MANIFEST
10/02/1987  XXS  STATE STATUTE OR REGULATION

ENFORCEMENTS

12/17/2012  120  WRITTEN INFORMAL
10/18/2012  110  VERBAL INFORMAL
12/28/2005  310  FINAL 3008(A) COMPLIANCE ORDER
06/30/2005  210  INITIAL 3008(A) COMPLIANCE
03/21/2005  110  VERBAL INFORMAL
05/07/1997  120  WRITTEN INFORMAL
11/28/1995  110  VERBAL INFORMAL
10/02/1987  120  WRITTEN INFORMAL

HAZARDOUS WASTE

D001  IGNITABLE WASTE
D002  CORROSIVE WASTE
D003  REACTIVE WASTE
D008  LEAD
D009  MERCURY
D018  BENZENE
D035  METHYL ETHYL KETONE
THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDs CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDs CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDs CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

2-PROPENOIC ACID (I)
ACRYLIC ACID (I)
CYCLOHEXANONE (I)
ALPHA, ALPHA-DIMETHYLBENZYLHYDROPEROXIDE (R)
HYDROPEROXIDE, 1-METHYL-1-PHENYLETHYL-(R)
2,5-FURANDIONE
MALEIC ANHYDRIDE
2-BUTANONE, PEROXIDE (R,T)
METHYL ETHYL KETONE PEROXIDE (R,T)
1,4-NAPHTHALENE DIIONE
1,4-NAPHTHOQUINONE
1,3-ISOENZOFURANDIONE
PHTHALIC ANHYDRIDE
BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T)
TOLUENE DIISOCYANATE (R,T)
BENZENE, DIMETHYL- (I,T)
XYLENE (I)
ETHANAMINE, N,N-DIETHYL-
TRYTHYLAMINE

WASTE TYPE: ACCUMULATED GENERATED SOURCE TYPE:
WASTE ON-SITE: WASTE ON-SITE:
BATTERIES NO NO ANNUAL/BIENNIAL REPORT
BATTERIES UNKNOWN UNKNOWN ANNUAL/BIENNIAL REPORT
LAMPS NO NO ANNUAL/BIENNIAL REPORT
LAMPS UNKNOWN UNKNOWN ANNUAL/BIENNIAL REPORT
PESTICIDES NO NO ANNUAL/BIENNIAL REPORT
PESTICIDES UNKNOWN UNKNOWN ANNUAL/BIENNIAL REPORT
MERCURY CONTAINING EQUIPMENT NO NO ANNUAL/BIENNIAL REPORT
MERCURY CONTAINING EQUIPMENT UNKNOWN UNKNOWN ANNUAL/BIENNIAL REPORT

CORRECTIVE ACTION AREA (RELEASE)
AREA NAME: AIR: GROUNDWATER: SOIL: SURFACE WASTE:
ENTIRE FACILITY ----- ----- ----- -----

CORRECTIVE ACTION EVENT
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<tr>
<th>CA EVENT</th>
<th>DATE:</th>
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<td>CA550NR</td>
<td>05/15/2006</td>
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<td>CA770NG</td>
<td>03/21/2004</td>
<td>ENGINEERING CONTROLS ESTABLISHED-NON-GROUNDWATER CONTROL</td>
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<tr>
<td>CA750YE</td>
<td>06/07/2001</td>
<td>RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE</td>
</tr>
<tr>
<td>CA750</td>
<td>06/07/2001</td>
<td>RELEASE TO GW CONTROLLED DETERMINATION</td>
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<tr>
<td>CA725YE</td>
<td>06/04/2001</td>
<td>HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE</td>
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<td>CA075HI</td>
<td>09/11/1998</td>
<td>CA PRIORITIZATION-HIGH CA PRIORITY</td>
</tr>
<tr>
<td>CA050</td>
<td>10/07/1991</td>
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Back to Report Summary
Distance from Property: 0.895 mi. (4,726 ft.) NNW
Elevation: 48 ft. (Higher than TP)

**FACILITY INFORMATION**

**EPA ID#:** TXD000807875  
**OWNER TYPE:** PRIVATE

**NAME:** COOK COMPOSITES AND POLYMERS  
**OWNER NAME:** CHARDONOL CORPORATION

**ADDRESS:** 2434 HOLMES ROAD - LANDFILL  
**OPERATOR TYPE:** PRIVATE

**OWNER NAME:** CHARDONOL CORPORATION  
**OPERATOR NAME:** MAGNA CORPORATION

**ADDRESS:** 2434 HOLMES ROAD - LANDFILL  
**OPERATOR NAME:** MAGNA CORPORATION

**CONTACT NAME:** RON LOUTERS

**CONTACT PHONE:** 713-799-1800

**DATE RECEIVED BY AGENCY:** 02/01/2013

**INDUSTRY CLASSIFICATION (NAICS):** 325998 - ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT AND PREPARATION MANUFACTURING

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**CURRENT ACTIVITY INFORMATION**

**GENERATOR STATUS:** NON-GENERATOR  
**LAST UPDATED DATE:** 02/01/2013

**SUBJECT TO CORRECTIVE ACTION UNIVERSE:** YES

**TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE:** NO

**TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE:** YES

**NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE:** NO

**CORRECTIVE ACTION WORKLOAD UNIVERSE:** NO

**IMPORTER:** NO

**MIXED WASTE GENERATOR:** NO

**RECYCLER:** NO

**TRANSPORTER:** NO

**ONSITE BURNER EXEMPTION:** NO

**FURNACE EXEMPTION:** NO

**USED OIL REFINER:** NO

**USED OIL TRANSFER FACILITY:** NO

**UNDERGROUND INJECTION:** NO

**UNIVERSAL WASTE DESTINATION FACILITY:** NO

**TRANSFER FACILITY:** NO

**USED OIL FUEL BURNER:** NO

**USED OIL PROCESSOR:** NO

**USED OIL FUEL MARKETER TO BURNER:** NO

**SPECIFICATION USED OIL MARKETER:** NO

**USED OIL TRANSPORTER:** NO

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**COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION**

**EVALUATIONS**

02/20/1987  GME  GROUNDWATER MONITORING EVALUATION

**VIOLATIONS**

02/20/1987  XXS  STATE STATUTE OR REGULATION

**ENFORCEMENTS**

02/20/1987  110  VERBAL INFORMAL

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**HAZARDOUS WASTE**

D001  IGNITABLE WASTE

D002  CORROSIVE WASTE

D009  MERCURY
**F003**  THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

**F005**  THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

**UNIVERSAL WASTE**  
- NO UNIVERSAL WASTE REPORTED -

**CORRECTIVE ACTION AREA (RELEASE)**

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<th>AREA NAME:</th>
<th>AIR:</th>
<th>GROUNDWATER:</th>
<th>SOIL:</th>
<th>SURFACE WASTE:</th>
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**CORRECTIVE ACTION EVENT**

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<tr>
<th>CA EVENT:</th>
<th>DATE:</th>
<th>EVENT DESCRIPTION:</th>
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<td>CA400</td>
<td>02/18/2014</td>
<td>REMEDY DECISION</td>
</tr>
<tr>
<td>CA550RC</td>
<td>02/18/2014</td>
<td>REMEDY CONSTRUCTION-REMEDY CONSTRUCTED</td>
</tr>
<tr>
<td>CA800YE</td>
<td>02/18/2014</td>
<td>READY FOR ANTICIPATED USE DETERMINATION - READY FOR ANTICIPATED USE</td>
</tr>
<tr>
<td>CA999NF</td>
<td>02/18/2014</td>
<td>CA PROCESS IS TERMINATED-NO FURTHER ACTION</td>
</tr>
<tr>
<td>CA770NG</td>
<td>03/28/2005</td>
<td>ENGINEERING CONTROLS ESTABLISHED-NON-GROUNDWATER CONTROL</td>
</tr>
<tr>
<td>CA750YE</td>
<td>06/07/2001</td>
<td>RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE</td>
</tr>
<tr>
<td>CA725YE</td>
<td>06/06/2001</td>
<td>HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE</td>
</tr>
<tr>
<td>CA075HI</td>
<td>05/14/1992</td>
<td>CA PRIORITIZATION-HIGH CA PRIORITY</td>
</tr>
<tr>
<td>CA050</td>
<td>10/07/1991</td>
<td>RFA COMPLETED</td>
</tr>
<tr>
<td>CA070YE</td>
<td>10/07/1991</td>
<td>DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY</td>
</tr>
<tr>
<td>CA770GW</td>
<td>01/01/1986</td>
<td>ENGINEERING CONTROLS ESTABLISHED-GROUNDWATER CONTROL</td>
</tr>
</tbody>
</table>

[Back to Report Summary]
Unlocated Sites Summary

This list contains sites that could not be mapped due to limited or incomplete address information.

No Records Found
<table>
<thead>
<tr>
<th>CDL</th>
<th>Clandestine Drug Laboratory Locations</th>
<th>VERSION DATE: 07/01/16</th>
</tr>
</thead>
</table>

The U.S. Department of Justice ("the Department") provides this information as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments. The Department does not establish, implement, enforce, or certify compliance with clean-up or remediation standards for contaminated sites; the public should contact a state or local health department or environmental protection agency for that information.

<table>
<thead>
<tr>
<th>EC</th>
<th>Federal Engineering Institutional Control Sites</th>
<th>VERSION DATE: 08/03/15</th>
</tr>
</thead>
</table>

This database includes site locations where Engineering and/or Institutional Controls have been identified as part of a selected remedy for the site as defined by United States Environmental Protection Agency official remedy decision documents. A site listing does not indicate that the institutional and engineering controls are currently in place nor will be in place once the remedy is complete; it only indicates that the decision to include either of them in the remedy is documented as of the completed date of the document. Institutional controls are actions, such as legal controls, that help minimize the potential for human exposure to contamination by ensuring appropriate land or resource use. Engineering controls include caps, barriers, or other device engineering to prevent access, exposure, or continued migration of contamination.

<table>
<thead>
<tr>
<th>ERNSTX</th>
<th>Emergency Response Notification System</th>
<th>VERSION DATE: 10/15/17</th>
</tr>
</thead>
</table>

This National Response Center database contains data on reported releases of oil, chemical, radiological, biological, and/or etiological discharges into the environment anywhere in the United States and its territories. The data comes from spill reports made to the U.S. Environmental Protection Agency, U.S. Coast Guard, the National Response Center and/or the U.S. Department of Transportation.

<table>
<thead>
<tr>
<th>HMIRSR06</th>
<th>Hazardous Materials Incident Reporting System</th>
<th>VERSION DATE: 08/30/17</th>
</tr>
</thead>
</table>

The HMIRS database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

<table>
<thead>
<tr>
<th>ICIS</th>
<th>Integrated Compliance Information System (formerly DOCKETS)</th>
<th>VERSION DATE: 09/23/17</th>
</tr>
</thead>
</table>

www.geo-search.com 888-396-0042
ICIS is a case activity tracking and management system for civil, judicial, and administrative federal Environmental Protection Agency enforcement cases. ICIS contains information on federal administrative and federal judicial cases under the following environmental statutes: the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, the Emergency Planning and Community Right-to-Know Act - Section 313, the Toxic Substances Control Act, the Federal Insecticide, Fungicide, and Rodenticide Act, the Comprehensive Environmental Response, Compensation, and Liability Act, the Safe Drinking Water Act, and the Marine Protection, Research, and Sanctuaries Act.

<table>
<thead>
<tr>
<th>Database</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LUCIS</td>
<td>Land Use Control Information System</td>
</tr>
<tr>
<td>VERSION DATE</td>
<td>09/01/06</td>
</tr>
</tbody>
</table>

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

<table>
<thead>
<tr>
<th>Database</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLTS</td>
<td>Material Licensing Tracking System</td>
</tr>
<tr>
<td>VERSION DATE</td>
<td>06/29/17</td>
</tr>
</tbody>
</table>

MLTS is a list of approximately 8,100 sites which have or use radioactive materials subject to the United States Nuclear Regulatory Commission (NRC) licensing requirements.

<table>
<thead>
<tr>
<th>Database</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PADS</td>
<td>PCB Activity Database System</td>
</tr>
<tr>
<td>VERSION DATE</td>
<td>07/18/17</td>
</tr>
</tbody>
</table>

PADS identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

<table>
<thead>
<tr>
<th>Database</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCRASC</td>
<td>RCRA Sites with Controls</td>
</tr>
<tr>
<td>VERSION DATE</td>
<td>11/21/17</td>
</tr>
</tbody>
</table>

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with institutional controls in place.

<table>
<thead>
<tr>
<th>Database</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEMSLIENS</td>
<td>SEMS Lien on Property</td>
</tr>
<tr>
<td>VERSION DATE</td>
<td>07/11/17</td>
</tr>
</tbody>
</table>

The U.S. Environmental protections Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response,
**Environmental Records Definitions - FEDERAL**

Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs. This is a listing of SEMS sites with a lien on the property.

**SFLiens**

CERCLIS Liens

VERSION DATE: 06/08/12

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which United States Environmental Protection Agency has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties. This database contains those CERCLIS sites where the Lien on Property action is complete.

**SSTS**

Section Seven Tracking System

VERSION DATE: 12/08/14

The United States Environmental Protection Agency tracks information on pesticide establishments through the Section Seven Tracking System (SSTS). SSTS records the registration of new establishments and records pesticide production at each establishment. The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) requires that production of pesticides or devices be conducted in a registered pesticide-producing or device-producing establishment. ("Production" includes formulation, packaging, repackaging, and relabeling.)

**TSCA**

Toxic Substance Control Act Inventory

VERSION DATE: 12/31/12

The Toxic Substances Control Act (TSCA) was enacted in 1976 to ensure that chemicals manufactured, imported, processed, or distributed in commerce, or used or disposed of in the United States do not pose any unreasonable risks to human health or the environment. TSCA section 8(b) provides the United States Environmental Protection Agency authority to "compile, keep current, and publish a list of each chemical substance that is manufactured or processed in the United States." This TSCA Chemical Substance Inventory contains non-confidential information on the production amount of toxic chemicals from each manufacturer and importer site.

**HISTPST**

Historical Gas Stations

VERSION DATE: NR

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

**MRDS**

Mineral Resource Data System

VERSION DATE: 03/15/16

**GeoSearch**

www.geo-search.com  888-396-0042

Order# 98937  Job# 216996  47 of 59
MRDS (Mineral Resource Data System) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS.

**MSHA**
Mine Safety and Health Administration Master Index File

**VERSION DATE: 09/01/17**

The Mine dataset lists all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970. It includes such information as the current status of each mine (Active, Abandoned, NonProducing, etc.), the current owner and operating company, commodity codes and physical attributes of the mine. Mine ID is the unique key for this data. This information is provided by the United States Department of Labor - Mine Safety and Health Administration (MSHA).

**USUMTRCA**
Uranium Mill Tailings Radiation Control Act Sites

**VERSION DATE: 03/04/17**

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).

**ALTFUELS**
Alternative Fueling Stations

**VERSION DATE: 05/16/17**


**FEMAUST**
FEMA Owned Storage Tanks

**VERSION DATE: 12/01/16**

This is a listing of FEMA owned underground and aboveground storage tank sites. For security reasons, address information is not released to the public according to the U.S. Department of Homeland Security.

**ICISCLEANERS**
Integrated Compliance Information System Drycleaners

**VERSION DATE: 09/23/17**

This is a listing of drycleaner facilities from the Integrated Compliance Information System (ICIS). The Environmental Protection Agency (EPA) tracks facilities that
possess NAIC and SIC codes that classify businesses as drycleaner establishments.

**RCRAGR06**

**Resource Conservation & Recovery Act - Generator**

**VERSION DATE: 10/17/17**

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities currently generating hazardous waste. EPA region 6 includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

**RCRANGR06**

**Resource Conservation & Recovery Act - Non-Generator**

**VERSION DATE: 10/17/17**

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities classified as non-generators. Non-Generators do not presently generate hazardous waste. EPA Region 6 includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

**BF**

**Brownfields Management System**

**VERSION DATE: 11/21/17**

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. The United States Environmental Protection Agency maintains this database to track activities in the various brown field grant programs including grantee assessment, site cleanup and site redevelopment. This database included tribal brownfield sites.

**DNPL**

**Delisted National Priorities List**

**VERSION DATE: 10/10/17**

This database includes sites from the United States Environmental Protection Agency’s Final National Priorities List (NPL) where remedies have proven to be satisfactory or sites where the original analyses were inaccurate, and the site is no longer appropriate for inclusion on the NPL, and final publication in the Federal Register has occurred.
This information originates from the National Atlas of the United States Federal Lands data, which includes lands owned or administered by the Federal government. Army DOD, Army Corps of Engineers DOD, Air Force DOD, Navy DOD and Marine DOD areas of 640 acres or more are included.

The Formerly Used Defense Sites (FUDS) inventory includes properties previously owned by or leased to the United States and under Secretary of Defense Jurisdiction, as well as Munitions Response Areas (MRAs). The remediation of these properties is the responsibility of the Department of Defense. This data is provided by the U.S. Army Corps of Engineers (USACE), the boundaries/polygon data are based on preliminary findings and not all properties currently have polygon data available. DISCLAIMER: This data represents the results of data collection/processing for a specific USACE activity and is in no way to be considered comprehensive or to be used in any legal or official capacity as presented on this site. While the USACE has made a reasonable effort to insure the accuracy of the maps and associated data, it should be explicitly noted that USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. For additional information on Formerly Used Defense Sites please contact the USACE Public Affairs Office at (202) 528-4285.

This database includes RCRA Non-Corrective Action TSD facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements. This listing includes facilities that formerly treated, stored or disposed of hazardous waste.

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970’s. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances
where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

**ODI**
Open Dump Inventory
VERSION DATE: 06/01/85

The open dump inventory was published by the United States Environmental Protection Agency. An “open dump” is defined as a facility or site where solid waste is disposed of which is not a sanitary landfill which meets the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944) and which is not a facility for disposal of hazardous waste. This inventory has not been updated since June 1985.

**RCRAT**
Resource Conservation & Recovery Act - Non-CORRACTS Treatment, Storage & Disposal Facilities
VERSION DATE: 10/17/17

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the “cradle-to-grave.” This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities recognized as hazardous waste treatment, storage, and disposal sites (TSD).

**SEMS**
Superfund Enterprise Management System
VERSION DATE: 10/10/17

The U.S. Environmental Protection Agency’s (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs.

**SEMSARCH**
Superfund Enterprise Management System Archived Site Inventory
VERSION DATE: 10/10/17

The Superfund Enterprise Management System Archive listing (SEMS-ARCHIVE) has replaced the CERCLIS NFRAP reporting system in 2015. This listing reflect sites that have been assessed and no further remediation is planned and is of no further interest under the Superfund program.

**SMCRA**
Surface Mining Control and Reclamation Act Sites
VERSION DATE: 08/25/17

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to
provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

**FUSRAP**
Formerly Utilized Sites Remedial Action Program

The U.S. DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

**NLRRCRAC**
No Longer Regulated RCRA Corrective Action Facilities

This database includes RCRA Corrective Action facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements.

**NPL**
National Priorities List

This database includes United States Environmental Protection Agency (EPA) National Priorities List sites that fall under the EPA's Superfund program, established to fund the cleanup of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action.

**PNPL**
Proposed National Priorities List

This database contains sites proposed to be included on the National Priorities List (NPL) in the Federal Register. The United States Environmental Protection Agency investigates these sites to determine if they may present long-term threats to public health or the environment.

**RCRAC**
Resource Conservation & Recovery Act - Corrective Action Facilities

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the “cradle-to-grave.” This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986
amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with corrective action activity.

**RCRASUBC**
Resource Conservation & Recovery Act - Subject to Corrective Action Facilities
VERSION DATE: 10/17/17

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities subject to corrective actions.

**RODS**
Record of Decision System
VERSION DATE: 10/10/17

These decision documents maintained by the United States Environmental Protection Agency describe the chosen remedy for NPL (Superfund) site remediation. They also include site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, and scope and role of response action.
Texas Land Application Permits are a requirement from the Texas Commission on Environmental Quality for any domestic facility that disposes of treated effluent by land application such as surface irrigation, evaporation, drainfields or subsurface land application.

Liens filed upon State and/or Federal Superfund Sites by the Texas Commission on Environmental Quality.

The Texas Risk Reduction Program (TRRP) requires the placement of institutional controls (e.g., deed notices or restrictive covenants) on affected property in different circumstances as part of completing a response action. In its simplest form, an institutional control (IC) is a legal document that is recorded in the county deed records. In certain circumstances, local zoning or ordinances can serve as an IC. This listing may also include locations where Engineering Controls are in effect, such as a cap, barrier, or other engineering device to prevent access, exposure, or continued migration of contamination. The sites included on this list are regulated by various programs of the Texas Commission on Environmental Quality (TCEQ).

This Texas Commission on Environmental Quality database includes releases of hazardous or potentially hazardous materials into the environment.

The salt caverns for petroleum storage database is provided by the Railroad Commission of Texas.

The Texas Tier II Chemical Reporting Program in the Department of State Health Services (DSHS) is the state repository for EPCRA-required Emergency Planning Letters (EPLs), which are one-time notifications to the state from facilities that have certain extremely hazardous chemicals in specified amounts. The Program is also the state repository for EPCRA/state-required hazardous chemical inventory reports called Texas Tier Two Reports.
This data contains those facility reports for the 2005 through the 2012 calendar years.

**WMRF**  
Recycling Facilities  
VERSION DATE: 11/01/12

This listing of recycling facilities is provided by the Texas Commission on Environmental Quality's Recycle Texas Online service. The company information provided in this database is self-reported. Since recyclers post their own information, a facility or company appearing on the list does not imply that it is in compliance with TCEQ regulations or other applicable laws. This database is no longer maintained and includes the last compilation of the program participants before the Recycle Texas Online program was closed.

**PST**  
Petroleum Storage Tanks  
VERSION DATE: 10/04/17

The Petroleum Storage Tank database is administered by the Texas Commission on Environmental Quality (TCEQ). Both Underground storage tanks (USTs) and Aboveground storage tanks (ASTs) are included in this report. Petroleum Storage Tank registration has been a requirement with the TCEQ since 1986.

**NOV**  
Notice of Violations  
VERSION DATE: 02/24/16

This database containing Notice of Violations (NOV) is maintained by the Texas Commission on Environmental Quality. An NOV is a written notification that documents and communicates violations observed during an inspection to the business or individual inspected.

**RWS**  
Radioactive Waste Sites  
VERSION DATE: 07/11/06

This Texas Commission on Environmental Quality database contains all sites in the State of Texas that have been designated as Radioactive Waste sites.

**DCR**  
Dry Cleaner Registration Database  
VERSION DATE: 08/31/17

The database includes dry cleaning drop stations and facilities registered with the Texas Commission on Environmental Quality.

**IHW**  
Industrial and Hazardous Waste Sites  
VERSION DATE: 07/03/17

Owner and facility information is included in this database of permitted and non-permitted industrial and...
hazardous waste sites. Industrial waste is waste that results from or is incidental to operations of industry, manufacturing, mining, or agriculture. Hazardous waste is defined as any solid waste listed as hazardous or possesses one or more hazardous characteristics as defined in federal waste regulations. The IHW database is maintained by the Texas Commission on Environmental Quality.

IOP   Innocent Owner / Operator Database
VERSION DATE: 06/09/17

Texas Innocent Owner / Operator (IOP), created by House Bill 2776 of the 75th Legislature, provides a certificate to an innocent owner or operator if their property is contaminated as a result of a release or migration of contaminants from a source or sources not located on the property, and they did not cause or contribute to the source or sources of contamination. The IOP database is maintained by the Texas Commission on Environmental Quality.

MSD   Municipal Setting Designations
VERSION DATE: 11/02/17

The Texas Commission on Environmental Quality defines an MSD as an official state designation given to property within a municipality or its extraterritorial jurisdiction that certifies that designated groundwater at the property is not used as potable water, and is prohibited from future use as potable water because that groundwater is contaminated in excess of the applicable potable-water protective concentration level. The prohibition must be in the form of a city ordinance, or a restrictive covenant that is enforceable by the city and filed in the property records. The MSD property can be a single property, multi-property, or a portion of property.

PIHW  Permitted Industrial Hazardous Waste Sites
VERSION DATE: 07/03/17

Owner and facility information is included in this database of all permitted industrial and hazardous waste sites. Industrial waste is waste that results from or is incidental to operations of industry, manufacturing, mining, or agriculture. Hazardous waste is defined as any solid waste listed as hazardous or possesses one or more hazardous characteristics as defined in federal waste regulations. Permitted IHW facilities are regulated under 30 Texas Administrative Code Chapter 335 in addition to federal regulations. The IHW database is maintained by the Texas Commission on Environmental Quality.

APAR  Affected Property Assessment Reports
VERSION DATE: 04/24/17

As regulated by the Texas Commission on Environmental Quality, an Affected Property Assessment Report is required when a person is addressing a release of chemical of concern (COC) under 30 TAC Chapter 350, the Texas Risk Reduction Program (TRRP). The purpose of the APAR is to document all relevant affected property information to identify all release sources and COCs, determine the extent of all COCs, identify all transport/exposure pathways, and to determine if any response actions are necessary. The Texas Administrative Code Title 30 §350.4(a)(1) defines affected property as the entire area (i.e. on-site and off-site; including all
environmental media) which contains releases of chemicals of concern at concentrations equal to or greater than the assessment level applicable for residential land use and groundwater classification.

**BSA**
Brownfields Site Assessments

**VERSION DATE: 09/20/17**

The Brownfields Site Assessments database is maintained by the Texas Commission on Environmental Quality (TCEQ). The TCEQ, in close partnership with the U.S. Environmental Protection Agency (EPA) and other federal, state, and local redevelopment agencies, and stakeholders, is facilitating cleanup, transferability, and revitalization of brownfields through the development of regulatory, tax, and technical assistance tools.

**CALF**
Closed & Abandoned Landfill Inventory

**VERSION DATE: 11/01/05**

The Texas Commission on Environmental Quality, under a contract with Texas State University, and in cooperation with the 24 regional Council of Governments (COGs) in the State, has located over 4,000 closed and abandoned municipal solid waste landfills throughout Texas. This listing contains "unauthorized sites". Unauthorized sites have no permit and are considered abandoned. The information available for each site varies in detail and this historical information is not updated. Please refer to the specific regional COG for the most current information.

**DCRPS**
Dry Cleaner Remediation Program Sites

**VERSION DATE: 09/01/17**

This list of DCRP sites is provided by the Texas Commission on Environmental Quality (TCEQ). According to the TCEQ, the Dry Cleaner Remediation Program (DCRP) establishes a prioritization list of dry cleaner sites and administers the Dry Cleaning Remediation fund to assist with remediation of contamination caused by dry cleaning solvents.

**IHWCA**
Industrial and Hazardous Waste Corrective Action Sites

**VERSION DATE: 10/16/17**

This database is provided by the Texas Commission on Environmental Quality (TCEQ). According to the TCEQ, the mission of the industrial and hazardous waste corrective action program is to oversee the cleanup of sites contaminated from industrial and municipal hazardous and industrial nonhazardous wastes. The goals of this program are to: Ensure that sites are assessed and remediated to levels that protect human health and the environment; Verify that waste management units or facilities are taken out of service and closed properly; and Facilitate revitalization of contaminated properties.

**LPST**
Leaking Petroleum Storage Tanks

**VERSION DATE: 10/09/17**
The Leaking Petroleum Storage Tank listing is derived from the Petroleum Storage Tank (PST) database and is maintained by the Texas Commission on Environmental Quality. This listing includes aboveground and underground storage tank facilities with reported leaks.

**MSWLF**  
Municipal Solid Waste Landfill Sites  
VERSION DATE: 09/29/17

The municipal solid waste landfill database is provided by the Texas Commission on Environmental Quality. This database includes active landfills and inactive landfills, where solid waste is treated or stored.

**RRCVCP**  
Railroad Commission VCP and Brownfield Sites  
VERSION DATE: 10/25/17

According to the Railroad Commission of Texas, their Voluntary Cleanup Program (RRC-VCP) provides an incentive to remediate Oil & Gas related pollution by participants as long as they did not cause or contribute to the contamination. Applicants to the program receive a release of liability to the state in exchange for a successful cleanup.

**VCP**  
Voluntary Cleanup Program Sites  
VERSION DATE: 12/06/17

The Texas Voluntary Cleanup Program (VCP) provides administrative, technical, and legal incentives to encourage the cleanup of contaminated sites in Texas. Since all non-responsible parties, including future lenders and landowners, receive protection from liability to the state of Texas for cleanup of sites under the VCP, most of the constraints for completing real estate transactions at those sites are eliminated. As a result, many unused or underused properties may be restored to economically productive or community beneficial uses. The VCP database is maintained by the Texas Commission on Environmental Quality.

**SF**  
State Superfund Sites  
VERSION DATE: 09/23/16

The state Superfund program mission is to remediate abandoned or inactive sites within the state that pose an unacceptable risk to public health and safety or the environment, but which do not qualify for action under the federal Superfund program (NPL - National Priority Listing). As required by the Texas Solid Waste Disposal Act, Texas Health and Safety Code, Chapter 361, the Texas Commission on Environmental Quality identifies and evaluates these facilities for inclusion on the state Superfund registry. This registry includes any recent developments and the anticipated action for these sites.
### USTR06  Underground Storage Tanks On Tribal Lands

This database, provided by the United States Environmental Protection Agency (EPA), contains underground storage tanks on Tribal lands located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

### LUSTR06  Leaking Underground Storage Tanks On Tribal Lands

This database, provided by the United States Environmental Protection Agency (EPA), contains leaking underground storage tanks on Tribal lands located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

### ODINDIAN  Open Dump Inventory on Tribal Lands

This Indian Health Service database contains information about facilities and sites on tribal lands where solid waste is disposed of, which are not sanitary landfills or hazardous waste disposal facilities, and which meet the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944).

### INDIANRES  Indian Reservations

The Department of Interior and Bureau of Indian Affairs maintains this database that includes American Indian Reservations, off-reservation trust lands, public domain allotments, Alaska Native Regional Corporations and Recognized State Reservations.
APPENDIX E
CREDENTIALS
CHRISTINA ROSILEZ  
ESA GROUP MANAGER

PROFESSIONAL EXPERIENCE
Ms. Rosilez has over 15 years experience in environmental services and currently serves as the Environmental Site Assessment (ESA) Manager in Terracon’s Houston, Texas office. She is responsible for coordinating ESAs and National Environmental Policy Act (NEPA) projects, client communications, and project management for the Gulf Coast area. As a result of her experience, Ms. Rosilez is proficient in a diversity of environmental services, including ESAs, asbestos consulting services and activities under NEPA jurisdiction and indoor air quality (IAQ) investigations.

Ms. Rosilez has performed and managed hundreds of ESAs for industrial, commercial, and residential facilities throughout the country. She has acquired a strong understanding of facility operating systems and fate and transport of chemicals through air, soil, surface water, and groundwater.

Ms. Rosilez has performed indoor air quality (IAQ) investigations for schools, residential, and commercial properties. These investigations included visual inspections; interviews with building occupants; and bulk, surface, and air sampling for fungi (molds) and bacteria. She has also performed IAQ visual and analytical clearance testing.

Ms. Rosilez has performed bulk asbestos sampling in numerous facilities to satisfy state and federal regulations for public, commercial, and industrial buildings in Texas and Louisiana.

PROJECT EXPERIENCE

Dry Cleaner – Houston, Texas
Performed a Phase I ESA for an active dry cleaning facility that was involved in remedial activities under the direction of the TCEQ. Project duties included project initiation, the site visit, analysis of data, and preparation of the report.

Nursing Home Facility Portfolio – Kingsville and Orange, Texas
Performed Phase I ESAs for a portfolio of nursing home facilities. Project duties included project initiation, the site visit, analysis of data, and preparation of the report.

Former Oil/Gas Exploration Field – Houston, Texas
Performed a Phase I ESA for approximately 230 acres of land that historically operated with numerous oil and gas wells, associated tank batteries and production pits. Portions of the site had been entered into the Texas Railroad Commission Voluntary Cleanup Program and review of files associated with numerous on-site investigations was conducted as part of the Phase I ESA. Project duties included project initiation, the site visit, analysis of data, and preparation of the report.

Education
Bachelor of Science, Bioenvironmental Science, 2000, Texas A&M University

Registrations
Texas Department of State Health Services, Mold Assessment Consultant #MAC0224, Asbestos Inspector #602117

Work History
Terracon, ESA Group Manager, December 2012 – Present, Project Manager, 2011-December 2012
TGE Resources, Inc., Project Manager, 2001 - 2011
Former Dairy Facility – College Station, Texas
Performed a Phase I ESA for a former 91 acre dairy farm in College Station, Texas. This site operated as a dairy farm for over 50 years and the assessment included investigation of on-site former waste lagoons. Project duties included project initiation, performance of a Phase I ESA site visit, analysis of data, and preparation of project deliverables.

Approximately 9,000 Acres – Harris/Montgomery/Liberty Counties, Texas
Performed a Phase I ESA for on approximately 9,000 acres of primarily undeveloped land. The land had been in use for timber production. Project duties included project initiation, performance of a Phase I ESA site visit, analysis of data, and preparation of project deliverables.

Proposed Multi-Family Development
Performed a Phase I ESA for an approximate seven acre tract of land that had a planned development as multi-family housing community. The Phase I ESA was performed according to the Texas Department of Housing & Community Affairs Environmental Site Assessment Rules and Guidelines. Project duties included project initiation, performance of a Phase I ESA site visit, interviews, analysis of data, and preparation of project deliverables.
ASHLEE M. TERRY
STAFF SCIENTIST

PROFESSIONAL EXPERIENCE
Ms. Terry has four years of experience performing Phase I Environmental Site Assessments. Ms. Terry also has experience in soil and water sampling, and performing laboratory experiments and research. She was the recipient of a Mickey Leland Internship at the Texas Commission on Environmental Quality, and has worked for the Plant Pathology and Microbiology Department and the Entomology Department at Texas A&M University. Ms. Terry is knowledgeable with a wide range of Federal and State environmental rules and regulations.

PROJECT EXPERIENCE

Restaurant Building- Houston, Texas
Performed an ESA for a former restaurant building that totaled 13,200 square feet in the Heights neighborhood of Houston. The site was a former filling station which operated from the 1920s through the 1970s. Project duties included project initiation, the site visit, analysis of data, and preparation of the report. The purpose for the ESA was to identify recognized environmental conditions for the client who was purchasing the site for future redevelopment.
Professional Services Conducted: Environmental Site Assessment
Services Completed: 2016

Distribution Warehouse- Houston, Texas
Performed an ESA for a Distribution Warehouse that totaled 1.34 acres in northwest Houston. The site was a former fine foods distribution warehouse located in an industrial area of Houston. Project duties included project initiation, the site visit, analysis of data, and preparation of the report. The purpose for the ESA was to identify recognized environmental conditions for the client who was purchasing the site for future development.
Professional Services Conducted: Environmental Site Assessment
Services Completed: 2016

Proposed Wholesale Retailer- Houston, Texas
Performed an ESA for a proposed wholesale retailer that totaled 11 acres in southwest Houston. Project duties included project initiation, the site visit, analysis of data, and preparation of the report. The site was a part of the Voluntary Cleanup Program through the TCEQ. The purpose for the ESA was to identify any recognized environmental conditions for the client who was purchasing the site for future redevelopment.
Professional Services Conducted: Environmental Site Assessment
Services Completed: 2016

Nyle Maxwell Austin Collision Center- Austin, Texas
Conducted an ESA for an automotive collision center totaling approximately 2.3 acres located off Research Boulevard. Project duties included project initiation, the site visit, analysis of data, and preparation of the report. The purpose for the ESA was to identify recognized environmental conditions for the client who was refinancing the site.
Professional Services Conducted: Environmental Site Assessment
Services Completed: 2013

Education
Bachelor of Science, Bioenvironmental Science, Texas A&M University, 2012

Affiliations
National Association of Environmental Professionals
Commercial Real Estate for Women (CREW)

Work History
Terracon Consultants, Inc., Field Environmental Scientist, 2013
Texas Commission on Environmental Quality; Mickey Leland Intern, May 2012 – August 2012
Texas A&M University; Plant Pathology & Microbiology Intern; September 2011 to December 2011
Texas A&M University; Entomology Department Volunteer; May 2010 – June 2010
Walgreens- Austin, Texas
Conducted an ESA for a Walgreens Drug Store totaling approximately 1.1 acres located off East Riverside Drive. Project duties included project initiation, the site visit, analysis of data, and preparation of the report. The purpose for the ESA was to identify recognized environmental conditions for the client who was refinancing the site.

Professional Services Conducted: Environmental Site Assessment
Services Completed: 2013

TOPS Office Supply- Austin, Texas
Conducted an ESA for a TOPS Office Supply store totaling approximately 0.9 acres located off East 5th Street. Project duties included project initiation, the site visit, analysis of data, and preparation of the report. The purpose for the ESA was to identify recognized environmental conditions for the client who was refinancing the site.

Professional Services Conducted: Environmental Site Assessment
Services Completed: 2013

Approximately 15 Acres of Land- Humble, Texas
Conducted an ESA for Humble Independent School District totaling approximately 15 acres located in Humble. Project duties included project initiation, the site visit, analysis of data, and preparation of the report. The purpose for the ESA was to identify recognized environmental conditions for the client who was refinancing the site.

Professional Services Conducted: Environmental Site Assessment
Services Completed: 2016

IDEA Public Schools- Austin, Texas
Conducted an ESA for IDEA Public Schools over vacant, undeveloped land located in East Austin. Project duties included project initiation, the site visit, analysis of data, and preparation of the report. The purpose for the ESA was to identify recognized environmental conditions for the client who was refinancing the site.

Professional Services Conducted: Environmental Site Assessment
Services Completed: 2013
APPENDIX F
DESCRIPTION OF TERMS AND ACRONYMS
<table>
<thead>
<tr>
<th>Term/Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACM</td>
<td>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). Regulatory agencies have generally defined ACM as a material containing greater than 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.</td>
</tr>
<tr>
<td>AHERA</td>
<td>Asbestos Hazard Emergency Response Act</td>
</tr>
<tr>
<td>AST</td>
<td>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.</td>
</tr>
<tr>
<td>BGS</td>
<td>Below Ground Surface</td>
</tr>
<tr>
<td>Brownfields</td>
<td>State and/or tribal listing of Brownfield properties addressed by Cooperative Agreement Recipients or Targeted Brownfields Assessments.</td>
</tr>
<tr>
<td>BTEX</td>
<td>Benzene, Toluene, Ethylbenzene, and Xylenes. BTEX are VOC components found in gasoline and commonly used as analytical indicators of a petroleum hydrocarbon release.</td>
</tr>
<tr>
<td>CERCLA</td>
<td>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.</td>
</tr>
<tr>
<td>CERCLIS</td>
<td>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.</td>
</tr>
<tr>
<td>CESQG</td>
<td>Conditionally Exempt Small Quantity Generators</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
</tr>
<tr>
<td>Term/Acronym</td>
<td>Description</td>
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</tr>
<tr>
<td>CREC</td>
<td>Controlled Recognized Environmental Condition is defined in ASTM E1527-13 as &quot;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.&quot;</td>
</tr>
<tr>
<td>DOT</td>
<td>U.S. Department of Transportation</td>
</tr>
<tr>
<td>EPA</td>
<td>U.S. Environmental Protection Agency</td>
</tr>
<tr>
<td>ERNS</td>
<td>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 data-sharing effort between EPA, DOT, and the National Response Center.</td>
</tr>
<tr>
<td>ESA</td>
<td>Environmental Site Assessment</td>
</tr>
<tr>
<td>FRP</td>
<td>Fiberglass Reinforced Plastic</td>
</tr>
<tr>
<td>Hazardous Substance</td>
<td>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).</td>
</tr>
<tr>
<td>Hazardous Waste</td>
<td>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.”</td>
</tr>
<tr>
<td>HREC</td>
<td>Historical Recognized Environmental Condition is defined in ASTM E1527-13 as &quot;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.”</td>
</tr>
<tr>
<td>IC/EC</td>
<td>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.</td>
</tr>
<tr>
<td>ILP</td>
<td>Innocent Landowner/Operator Program</td>
</tr>
<tr>
<td>LQG</td>
<td>Large Quantity Generators</td>
</tr>
<tr>
<td>LUST</td>
<td>Leaking Underground Storage Tank. This is a federal term set forth under RCRA for leaking USTs. Some states also utilize this term.</td>
</tr>
</tbody>
</table>
### Description of Selected General Terms and Acronyms

<table>
<thead>
<tr>
<th>Term/Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCL</td>
<td>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.</td>
</tr>
<tr>
<td>MSDS</td>
<td>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.</td>
</tr>
<tr>
<td>NESHAP</td>
<td>National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants.</td>
</tr>
<tr>
<td>NFRAP</td>
<td>Facilities where there is “No Further Remedial Action Planned,” as more particularly described under the Records Review section of this report.</td>
</tr>
<tr>
<td>NOV</td>
<td>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.</td>
</tr>
<tr>
<td>NPDES</td>
<td>National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water.</td>
</tr>
<tr>
<td>NPL</td>
<td>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.</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration or Occupational Safety and Health Act.</td>
</tr>
<tr>
<td>PACM</td>
<td>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.</td>
</tr>
<tr>
<td>PCB</td>
<td>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.</td>
</tr>
<tr>
<td>pCi/L</td>
<td>picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials.</td>
</tr>
<tr>
<td>PLM</td>
<td>Polarized Light Microscopy (see ACM section of the report, if included in the scope of services).</td>
</tr>
<tr>
<td>PST</td>
<td>Petroleum Storage Tank. An AST or UST that contains a petroleum product.</td>
</tr>
<tr>
<td>Radon</td>
<td>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 &quot;action level&quot; concentration for residential structures is 4.0 pCi/L.</td>
</tr>
<tr>
<td>RCRA Generators</td>
<td>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.</td>
</tr>
<tr>
<td>RCRA CORRACTS/TSD Ds</td>
<td>The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials which are undergoing &quot;corrective action.&quot; A &quot;corrective action&quot; order is issued when there is a release of hazardous waste or constituents into the environment from a RCRA facility.</td>
</tr>
<tr>
<td>RCRA Non-CORRACTS/TSD Ds</td>
<td>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.</td>
</tr>
</tbody>
</table>
### Description of Selected General Terms and Acronyms

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<thead>
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<tbody>
<tr>
<td>RCRA Violators List</td>
<td>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.</td>
</tr>
<tr>
<td>RCRIS</td>
<td>Resource Conservation and Recovery Information System, as defined in the Records Review section of this report.</td>
</tr>
<tr>
<td>REC</td>
<td>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.”</td>
</tr>
<tr>
<td>SCL</td>
<td>State “CERCLIS” List (see SPL /State Priority List, below).</td>
</tr>
<tr>
<td>SPCC</td>
<td>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.</td>
</tr>
<tr>
<td>SPL</td>
<td>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.</td>
</tr>
<tr>
<td>SQG</td>
<td>Small Quantity Generator</td>
</tr>
<tr>
<td>SWF/LF</td>
<td>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.</td>
</tr>
<tr>
<td>TPH</td>
<td>Total Petroleum Hydrocarbons</td>
</tr>
<tr>
<td>TRI</td>
<td>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.</td>
</tr>
<tr>
<td>TSCA</td>
<td>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.</td>
</tr>
<tr>
<td>USACE</td>
<td>United States Army Corps of Engineers</td>
</tr>
<tr>
<td>USC</td>
<td>United States Code</td>
</tr>
<tr>
<td>USGS</td>
<td>United States Geological Survey</td>
</tr>
<tr>
<td>USNRCS</td>
<td>United States Department of Agriculture-Natural Resource Conservation Service</td>
</tr>
<tr>
<td>UST</td>
<td>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).</td>
</tr>
<tr>
<td>VCP</td>
<td>State and/or Tribal facilities included as Voluntary Cleanup Program sites.</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile Organic Compound</td>
</tr>
<tr>
<td>Term/Acronym</td>
<td>Description</td>
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<tr>
<td>Wetlands</td>
<td>Areas that are typically saturated with surface or ground water that creates an environment supportive of wetland vegetation (i.e., swamps, marshes, bogs). The <em>Corps of Engineers Wetlands Delineation Manual</em> (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.</td>
</tr>
</tbody>
</table>