
Delineation and Site Characterization Report

**Oilfield Water Logistics SWD Operating, LLC
Harrier Surface Line Produced Water Release
Unit Letter L2, L3, L4, Section 7, Unit Letter L1, Section
18, T26S, R33E
Lea County, New Mexico
Incident Tracking No. NRM2028334152**

December 31, 2020



Prepared For:

Mr. Phillip Sanders
OWL SWD Operating, LLC
8201 Preston Road, Suite 520
Dallas, Texas 75225

and

Ms. Christina Eads
New Mexico EMNRD
Oil Conservation Division
5200 Oakland Avenue Northeast, Ste. 100
Albuquerque, New Mexico 87113

Prepared By:



KJ Environmental Management, Inc.
500 Moseley Road
Cross Roads, Texas 76227

O: (940) 387-0805
F: (940) 387-0830



December 31, 2020

Mr. Phillip Sanders
Oilfield Water Logistics SWD Operating, LLC
8201 Preston Road, Suite 520
Dallas, Texas 75225

**RE: Delineation and Site Characterization Report: OWL SWD Operating, LLC
Harrier Surface Line Produced Water Release, Unit Letter L2, L3, L4, Section 7, Unit
Letter L1, Section 18, T26S, R33E, Lea County, New Mexico – Incident Tracking No.
NRM2028334152**

Dear Mr. Sanders:

KJ Environmental Mgt., Inc. (KJE) is pleased to submit this Delineation and Site Characterization Report for the produced water release located on the Harrier Surface Line in Lea County, New Mexico. This report discusses background information, assessment purpose and scope of work, execution of work, and documents the corresponding results.

We appreciate your selection of KJE for this project and look forward to assisting you further on other projects. If you have any questions, please do not hesitate to contact either of the undersigned at 940-387-0805. Thank you for the opportunity to provide professional environmental consulting services. It has been a pleasure working with you.

Best Regards,

A handwritten signature in blue ink, appearing to read 'T. Eubank'.

Tyler Eubank
Environmental Associate

A handwritten signature in blue ink, appearing to read 'William B. Soderstrom'.

William B. Soderstrom
Director of Environmental Services

A handwritten signature in blue ink, appearing to read 'Kevin Ware'.

Kevin Ware, P.E., QEP, REM
Principal

Table of Contents

Executive Summary 2

1.0 Introduction..... 3

2.0 Environmental Assessment Activities 3

2.1 Delineation Activities 3

2.2 Deviations from the Scope 4

3.0 Soil Sample Collection / Handling Procedures 4

3.1 Soil Samples 4

3.2 Groundwater Samples 4

4.0 Summary of Analytical Results 5

4.1 NMAC Closure Criteria..... 5

4.2 Soil Analytical Results 5

5.0 Photographs 6

6.0 Conclusions/Recommendations 6

7.0 Qualifications of Environmental Professional 6

8.0 Signature of Environmental Professional..... 7

APPENDICES

Appendix A – Figures:

- Figure 1 – Soil Boring Location Map
- Figure 2 – Proposed Remediation Map

Appendix B – Analytical Data:

- Table 1 – Soil Analytical Data
- Table 2 – Soil Boring GPS Coordinates
- Table 3 – Proposed Remediation GPS Coordinates

Appendix C – Boring Logs

Appendix D – Photographic Documentation

Appendix E – Laboratory Analytical Reports

Appendix F – NMOCD Approved C-141 Form

Appendix G – New Mexico Well Logs

Appendix H – Metes and Bounds Survey

Appendix I – Proposed Remediation Plan

Appendix J – Environmental Professional’s Credentials

OWL SWD Operating, LLC
Incident Tracking No. NRM2028334152
December 31, 2020



Executive Summary

KJ Environmental Mgt., Inc. (KJE), was retained by Oilfield Water Logistics SWD Operating, LLC, (OWL) to complete delineation activities for a produced water release from the Harrier Surface Line in Lea County, New Mexico.

On October 4, 2020, KJE was notified by Mr. Phillip Sanders, Safety Director with OWL, regarding a release of produced water at the above referenced location. Following the New Mexico Oil Conservation Division (NMOCD), part of the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD) notification and approval, the release was assigned incident tracking number NRM2028334152, and delineation and site characterization activities commenced.

Based on conversations with OWL, the produced water release occurred from the Harrier Surface Line when an unknown vehicle/heavy equipment ran over the pipeline causing a rupture. Pursuant to New Mexico Administrative Code (NMAC) 19.15.29 issued on August 8, 2018, KJE performed delineation and site characterization activities in an attempt to delineate the release horizontally and vertically. Furthermore, KJE advanced 70 soil borings (SS-01 through SS-70) within and outside the spill area but allowed a minimum 25-foot setback to the Mesquite and Enterprise Crude Oil pipelines to address appropriate safety measures and collect representative soil samples.

Soil samples collected during delineation and characterization activities did not indicate concentrations of benzene, toluene, ethyl benzene, and xylenes (BTEX) or total petroleum hydrocarbons (TPH) above laboratory method detection limits. However, chloride concentrations exceeded the NMAC closure criteria of 600 mg/kg in soil samples SS-03, SS-06, SS-10, SS-12, SS-14, SS-16, SS-18, SS-20, SS-22, SS-24, SS-28, SS-34, SS-36, SS-40, SS-43, SS-45, SS-47, SS-49, SS-51, SS-54, SS-56, SS-58, SS-59, SS-60, SS-63, and SS-64. The remaining soil samples submitted for laboratory analysis were either below the NMAC closure criteria or below laboratory reporting limits (non-detect).

Based on the exceedance of chlorides in multiple soil borings above the NMAC closure criteria of 600 mg/kg, KJE proposes to remediate the affected areas utilizing “dig and haul” method. KJE estimates the total volume of impacted soil is approximately 2,200 cubic yards (yds³) and all impacted soil will be properly transported and disposed of at the North Delaware Basin landfill in Jal, New Mexico. KJE anticipates the remediation timeline from implementation to submittal of closure report, once the proposed scope of work is approved by the OCD and BLM, will occur between 60 and 90 calendar days. A proposed remediation plan detailing estimated volume of impacted soil, excavation perimeters, boring locations, confirmation sampling methods, and laboratory analytical methods is included in Appendix I.

OWL SWD Operating, LLC
Incident Tracking No. NRM2028334152
December 31, 2020



1.0 Introduction

On October 4, 2020, KJE was provided notification by Mr. Phillip Sanders, Safety Director with OWL, regarding a release of produced water along the Harrier Surface Line located approximately 25 miles southwest of Jal, Lea County, New Mexico. According to OWL personnel, the pipeline was ruptured due to an unknown vehicle/heavy equipment ran over the surface line resulting in a release of produced water. KJE verbally notified the NMOCD and BLM of the release on October 7, 2020, and it was determined approximately 4,800 BBLs of produced water was released, with approximately 60 BBLs recovered during emergency response activities. According to OWL personnel, the release followed the right-of-way, owned by Mesquite and Enterprise, approximately 3,600 feet south. In addition, KJE submitted Form C-141 to the NMOCD on October 5, 2020 for review and approval. A response was received from Ms. Cristina Eads, with the NMOCD, indicating the incident was assigned incident tracking number NRM2028334152. Furthermore, based on conversations with Mr. James Amos, with the Bureau of Land Management (BLM), OWL was not required to perform an archeological survey for the release. Lastly, during the notification and delineation process, KJE determined approximately 276 BBLs of produced water and one (1) BBL of crude oil was released from the Mesa B 8115 JVP #5H pipeline, which occurred on May 8, 2020. According to the C-141 form obtained from the OCD E-Permitting online database, BTA Oil Producers, LLC, is listed as the responsible party. No additional delineation, site characterization, or remediation plans or reports were available for review. A copy of the BTA C-141 form is included in Appendix F. The general view of the release is illustrated in Appendix A on Figure 1.

Pursuant to NMAC 19.15.29 on August 8, 2018, KJE arrived on-site November 10, 2020, to begin delineation and site characterization procedures. The NMOCD approved C-141 form is located in Appendix F of this report.

2.0 Environmental Assessment Activities

2.1 Delineation Activities

Between November 10 and November 12, 2020, under the supervision of KJE personnel, JR Drilling, LLC, (JR Drilling) of Edgewood, New Mexico, advanced 70 soil borings (SS-01 through SS-70) within and outside the release area, but allowed a minimum 25-foot setback to the Mesquite and Enterprise crude oil pipelines, to collect representative soil samples. The soil borings were advanced utilizing a Geoprobe 7822DT (direct push techniques) to total depths ranging from two (2) to 13 feet below ground surface (bgs) in soil borings SS-58 and SS-24, respectively. Additionally, groundwater was not encountered during the advancement of the soil borings, therefore, groundwater was not sampled nor was it considered during the sampling event. The soil boring locations and approximate release area are included in Appendix A.

OWL SWD Operating, LLC
Incident Tracking No. NRM2028334152
December 31, 2020



Field screening for chloride concentrations and soil conductivity was conducted using a calibrated Hanna HI993310 soil conductivity meter. In addition, field screening for volatile organic compounds (VOCs) was conducted using a calibrated photoionization detector (PID) (Model RAE MINIRAE Lite 0-5K ppm) to screen for the highest readings from each of the borings. The soil boring logs are included in Appendix C.

2.2 Deviations from the Scope

Soil borings were field adjusted due to the proximity of the Mesquite and Enterprise crude oil pipelines and a minimum 25-foot setback set forth to maintain structural integrity and address safety concerns. During the installation of the soil borings, KJE encountered refusal due to caliche in all soil borings ranging from two (2) feet bgs in SS-58 to 13 feet bgs in SS-24. The soil boring locations and approximate release area are included in Appendix A.

3.0 Soil Sample Collection / Handling Procedures

3.1 Soil Samples

Soil samples were collected based on field indicators or depth of potential impact as noted above, and all samples were collected in four-ounce laboratory supplied glass containers for laboratory analysis. The collected soil samples were placed in laboratory-supplied containers, labeled, placed in an insulated container with ice, providing a 4°C environment for sufficient preservation, until delivery to Xenco Laboratories (a third-party, independent, and licensed environmental laboratory in Carlsbad, New Mexico) accompanied by completed chain-of-custody. The soil samples were analyzed for BTEX via Method 8260, extended range TPH via Method 8015 modified, and chlorides via Method EPA 300. The sample collection and handling activities were conducted in accordance with USEPA Standard Operating Procedures and strict chain-of-custody protocols.

The sample results were compared to the NMOCD closure applicable criteria, as detailed below and in Appendix B.

3.2 Groundwater Samples

Groundwater was not encountered in the soil borings advanced, nor was it anticipated to be encountered. According to records obtained from the New Mexico Office of the State Engineer's Office Hydrology Bureau records, the water well located closest to the release area is approximately 4.3 miles southwest of the release point in Section 21, Township 26S, Range 32E, labeled under Point of Diversion (POD) C03595POD1, has a recorded total depth of 280 feet bgs in 2013, and depth to water was reported at 180 feet bgs. no water well was located in the immediate vicinity of the release. As such, and based on analytical data, potential groundwater

OWL SWD Operating, LLC
Incident Tracking No. NRM2028334152
December 31, 2020



impact in not anticipated. Based on the absence of shallow groundwater and lack as a known source of drinking water in the vicinity of the release point, there is no complete exposure pathway to shallow groundwater. No use of groundwater is expected following proposed site remediation. In addition, proposed site remediation activities are not expected to encounter groundwater due to the recorded depth. As such, KJE does not recommend further action regarding potential groundwater impact. A copy of the POD location and New Mexico well log is included in Appendix G.

4.0 Summary of Analytical Results

4.1 NMAC Closure Criteria

The NMOCDC required delineation of BTEX, extended range TPH, and chlorides for the release area. Published values for BTEX and TPH were obtained from the document "New Mexico Administrative Code Title 19, Natural Resources and Wildlife, Chapter 15, Oil and Gas, Part 29, Releases, issued August 14, 2018. Horizontal and vertical delineation concentrations were determined to be 10 mg/kg benzene, 50 mg/kg BTEX, 100 mg/kg TPH and 600 mg/kg chloride based on the potential of groundwater to be within 50 feet of the ground surface. See Figure 1 in Appendix A for soil boring locations.

4.2 Soil Analytical Results

Soil samples collected during delineation and characterization activities did not indicate concentrations of BTEX or TPH above laboratory method detection limits. However, chloride concentrations exceeded the NMAC closure criteria of 600 mg/kg in soil samples SS-03 0 – 2', SS-03 2 – 4', SS-03 4 – 6', SS-03 6 – 8', SS-03 8 – 9', SS-06 0 – 2', SS-10 0 – 2', SS-12 0 – 2', SS-12 2 – 4', SS-14 0 – 2', SS-14 2 – 4', SS-14 4 – 6', SS-14 6 – 8', SS-14 8 – 9', SS-16 0 – 2', SS-16 2 – 4', SS-16 4 – 6', SS-16 6 – 8', SS-18 0 – 2', SS-18 2 – 4', SS-18 4 – 6', SS-18 6 – 8', SS-20 0 – 2', SS-20 4 – 6', SS-22 0 – 2', SS-22 2 – 4', SS-22 4 – 6', SS-24 0 – 2', SS-24 2 – 4', SS-24 4 – 6', SS-24 8 – 10', SS-24 10 – 12', SS-24 12 – 13', SS-28 0 – 2', SS-28 2 – 4', SS-28 4 – 6', SS-28 6 – 8', SS-28 8 – 10', SS-34 0 – 2', SS-34 2 – 4', SS-36 0 – 2', SS-36 2 – 4', SS-40 0 – 2', SS-43 0 – 2', SS-45 0 – 2', SS-47 0 – 2', SS-49 0 – 2', SS-51 0 – 2', SS-51 2 – 4', SS-51 4 – 6', SS-54 0 – 2', SS-54 2 – 4', SS-56 0 – 2', SS-56 2 – 4', SS-56 4 – 6', SS-58 0 – 2', SS-59 0 – 2', SS-60 0 – 2', SS-60 2 – 4', SS-63 0 – 2', and SS-64 0 – 2'. The remaining soil samples submitted for laboratory analysis were either below the NMAC closure criteria or below laboratory reporting limits (non-detect).

A summary table of the analytical results are included in Appendix B and copies of the laboratory analytical reports with chain-of-custody forms are included in Appendix D.

OWL SWD Operating, LLC
Incident Tracking No. NRM2028334152
December 31, 2020



5.0 Photographs

Photo documentation of the excavation and sampling activities are included in Appendix C.

6.0 Conclusions/Recommendations

Soil samples collected during delineation and characterization activities did not indicate concentrations of BTEX or TPH above laboratory method detection limits. However, chloride concentrations exceeded the NMAC closure criteria of 600 mg/kg in soil samples collected from SS-03, SS-06, SS-10, SS-12, SS-14, SS-16, SS-18, SS-20, SS-22, SS-24, SS-28, SS-34, SS-36, SS-40, SS-43, SS-45, SS-47, SS-49, SS-51, SS-54, SS-56, SS-58, SS-59, SS-60, SS-63, and SS-64. The remaining soil samples submitted for laboratory analysis were either below the NMAC closure criteria or below laboratory reporting limits (non-detect).

Based on the exceedance of chlorides in multiple soil borings above the NMAC closure criteria of 600 mg/kg, KJE proposes to remediate the affected areas utilizing “dig and haul” method. KJE estimates the total volume of impacted soil is approximately 2,200 cubic yards (yds³) and all impacted soil will be properly transported and disposed of at the North Delaware Basin landfill in Jal, New Mexico. KJE anticipates the remediation timeline from implementation to submittal of closure report, once the proposed scope of work is approved by the OCD and BLM, will occur between 60 and 90 calendar days. A proposed remediation plan detailing estimated volume of impacted soil, excavation perimeters, boring locations, confirmation sampling methods, and laboratory analytical methods is included in Appendix I.

If we can be of further assistance, please do not hesitate to contact either of the undersigned at (940) 387-0805. Thank you for the opportunity to provide professional environmental consulting services. It has been a pleasure working with you.

7.0 Qualifications of Environmental Professional

This is to certify the delineation and site characterization activities completed at the site located along the Harrier surface line in Lea County, New Mexico; was performed following EPA, NMOCD, and industry-approved standards/protocols. This work was conducted on November 10 through November 12, 2020 by Mr. Travis Reddick and Mr. Tyler Eubank of KJE, for Mr. Phillip Sanders with OWL SWD Operating, LLC, and all field activities were completed under the supervision of Mr. William B. Soderstrom. Mr. Soderstrom's credentials are included in Appendix J.

OWL SWD Operating, LLC
Incident Tracking No. NRM2028334152
December 31, 2020



8.0 Signature of Environmental Professional

William Soderstrom

December 31, 2020

William B. Soderstrom
Environmental Professional
Director of Environmental Services





Date

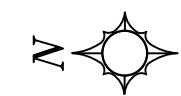
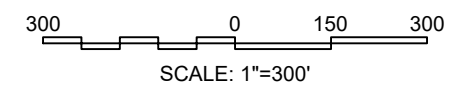
APPENDIX A – FIGURES



NOTES:
 1. GOOGLE EARTH WAS USED AS AN UNDERLAY IMAGE FOR THIS MAP. (<http://earth.google.com/>)

LEGEND

RELEASE POINT 	 EXCAVATION AREA (20'X20'X4')
OIL PIPELINE 	 APPROXIMATE SPILL AREA



DATE:12/31/2020
 VERSION: 1.0
 THIS DRAWING IS FOR INFORMATION PURPOSES ONLY

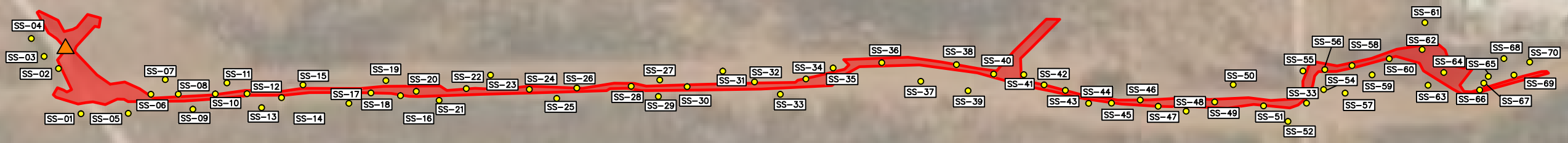
REVISIONS:

FIGURE:
A1

SOIL BORING LOCATIONS
 OILFIELD WATER LOGISTICS (OWL) SWD OPERATING, LLC
 HARRIER BOOSTER SURFACE LINE
 LEA COUNTY, NEW MEXICO



500 Moseley Road
 Cross Roads, Texas 76227
 Phone (940) 387-0805
 www.kje-us.com
 (TBPE # F-12214)



EXCAVATION COORDINATES			
SOIL SAMPLE	CORNER	LATITUDE	LONGITUDE
SS-03	NE	32.0597	-103.6168
	SE	32.0596	-103.6168
	SW	32.0596	-103.6169
	NW	32.0597	-103.6169
SS-06	NE	32.0590	-103.6171
	SE	32.0589	-103.6171
	SW	32.0589	-103.6172
SS-10	NE	32.0585	-103.6171
	SE	32.0584	-103.6171
	SW	32.0584	-103.6172
	NW	32.0585	-103.6172
SS-12	NE	32.0583	-103.6171
	SE	32.0582	-103.6171
	SW	32.0582	-103.6172
SS-14	NE	32.0581	-103.6172
	SE	32.0580	-103.6172
	SW	32.0580	-103.6173
	NW	32.0581	-103.6173
SS-16	NE	32.0572	-103.6172
	SE	32.0571	-103.6172
	SW	32.0571	-103.6173
	NW	32.0572	-103.6173
SS-18	NE	32.0574	-103.6171
	SE	32.0573	-103.6171
	SW	32.0573	-103.6172
	NW	32.0574	-103.6172

SS-20	NE	32.0571	-103.6171
	SE	32.0570	-103.6171
	SW	32.0570	-103.6172
	NW	32.0571	-103.6172
SS-22	NE	32.0568	-103.6171
	SE	32.0567	-103.6171
	SW	32.0567	-103.6172
SS-24	NE	32.0563	-103.6171
	SE	32.0562	-103.6171
	SW	32.0562	-103.6172
	NW	32.0563	-103.6172
SS-28	NE	32.0556	-103.6171
	SE	32.0555	-103.6171
	SW	32.0555	-103.6172
SS-34	NE	32.0544	-103.6170
	SE	32.0543	-103.6170
	SW	32.0543	-103.6171
	NW	32.0544	-103.6171
SS-36	NE	32.0539	-103.6169
	SE	32.0538	-103.6169
	SW	32.0538	-103.6170
	NW	32.0539	-103.6170
SS-40	NE	32.0531	-103.6170
	SE	32.0530	-103.6170
	SW	32.0530	-103.6171
	NW	32.0531	-103.6171

SS-43	NE	32.0526	-103.6172
	SE	32.0525	-103.6172
	SW	32.0525	-103.6173
	NW	32.0526	-103.6173
SS-45	NE	32.0523	-103.6173
	SE	32.0522	-103.6173
	SW	32.0522	-103.6174
	NW	32.0523	-103.6174
SS-47	NE	32.0519	-103.6173
	SE	32.0518	-103.6173
	SW	32.0518	-103.6174
	NW	32.0519	-103.6174
SS-49	NE	32.0515	-103.6173
	SE	32.0514	-103.6173
	SW	32.0514	-103.6174
	NW	32.0515	-103.6174
SS-51	NE	32.0512	-103.6173
	SE	32.0511	-103.6173
	SW	32.0511	-103.6174
	NW	32.0512	-103.6174
SS-54	NE	32.0508	-103.6172
	SE	32.0507	-103.6172
	SW	32.0507	-103.6173
	NW	32.0508	-103.6173
SS-56	NE	32.0508	-103.6170
	SE	32.0507	-103.6170
	SW	32.0507	-103.6180
	NW	32.0508	-103.6180

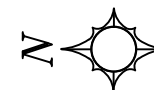
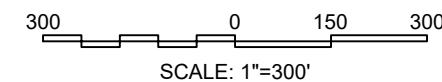
SS-58	NE	32.0506	-103.6170
	SE	32.0505	-103.6170
	SW	32.0505	-103.6171
	NW	32.0506	-103.6171
SS-59	NE	32.0504	-103.6170
	SE	32.0503	-103.6170
	SW	32.0503	-103.6171
	NW	32.0504	-103.6171
SS-60	NE	32.0503	-103.6169
	SE	32.0502	-103.6169
	SW	32.0502	-103.6170
	NW	32.0503	-103.6170
SS-63	NE	32.0501	-103.6171
	SE	32.0500	-103.6171
	SW	32.0500	-103.6172
	NW	32.0501	-103.6172
SS-64	NE	32.0499	-103.6170
	SE	32.0498	-103.6170
	SW	32.0498	-103.6171
	NW	32.0499	-103.6171

LEGEND

- RELEASE POINT EXCAVATION AREA (20'X20'X4')
- OIL PIPELINE APPROXIMATE SPILL AREA

NOTES:

- GOOGLE EARTH WAS USED AS AN UNDERLAY IMAGE FOR THIS MAP. (<http://earth.google.com/>)



DATE: 12/31/2020
 VERSION: 1.0
 THIS DRAWING IS FOR INFORMATION PURPOSES ONLY

REVISIONS:

FIGURE:

2



PROPOSED REMEDIATION MAP
 OILFIELD WATER LOGISTICS (OWL) SWD OPERATING, LLC
 HARRIER BOOSTER SURFACE LINE
 LEA COUNTY, NEW MEXICO

500 Moseley Road
 Cross Roads, Texas 76227
 Phone (940) 387-0805
 www.kje-us.com
 (TBPE # F-12214)

APPENDIX B – ANALYTICAL DATA

**Table 1: Soil Analytical Data
Harrier Booster Surface Line
32.059697, -103.616531
Jal, Lea County, New Mexico
Incident Tracking No. NRM2028334152**

Laboratory Sample Designation		Units	NMAC Closure Criteria ¹	NMAC Closure Criteria ²	677486-001	677486-004	677486-008	677486-009	677486-010	677486-011	677486-012	677486-013	677486-017	677486-021	677486-022	677486-023	677486-024	677486-025	677486-029			
Sample Designation					SS-01 0-2'	SS-02 0-2'	SS-03 0-2'	SS-03 2-4'	SS-03 4-6'	SS-03 6-8'	SS-03 8-9'	SS-04 0-2'	SS-05 0-2'	SS-06 0-2'	SS-06 2-4'	SS-06 4-6'	SS-06 6-7'	SS-07 0-2'	SS-08 0-2'			
Date Collected					11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020
Sample Depth					0 - 2'	0 - 2'	0 - 2'	2-4'	4-6'	6-8'	8-9'	0 - 2'	0 - 2'	0 - 2'	2-4'	4-6'	6-7'	0 - 2'	0 - 2'			
Method	Analyte																					
8015	TPH ²	mg/kg	100	2,500	<50.1	<50.2	<50.1	N/A	N/A	N/A	N/A	<50.0	<50.2	<49.9	N/A	N/A	N/A	<50.3	<49.9			
8260	BENZENE	mg/kg	10	10	<0.00201	<0.00198	<0.00198	N/A	N/A	N/A	N/A	<0.00201	<0.00198	<0.00200	N/A	N/A	N/A	<0.00204	<0.00201			
	ETHYLBENZENE	mg/kg	--	--	<0.00201	<0.00198	<0.00198	N/A	N/A	N/A	N/A	<0.00201	<0.00198	<0.00200	N/A	N/A	N/A	<0.00204	<0.00201			
	TOLUENE	mg/kg	--	--	<0.00201	<0.00198	<0.00198	N/A	N/A	N/A	N/A	<0.00201	<0.00198	<0.00200	N/A	N/A	N/A	<0.00204	<0.00201			
	XYLENE	mg/kg	--	--	<0.00201	<0.00198	<0.00198	N/A	N/A	N/A	N/A	<0.00201	<0.00198	<0.00200	N/A	N/A	N/A	<0.00204	<0.00201			
	TOTAL BTEX ³	mg/kg	50	50	<0.00201	<0.00198	<0.00198	N/A	N/A	N/A	N/A	<0.00201	<0.00198	<0.00200	N/A	N/A	N/A	<0.00204	<0.00201			
300	CHLORIDE	mg/kg	600	10,000	<10.1	44.8	3,140	9,330	7,910	4,960	6,300	12.2	22.4	5,870	68.6	69.6 K	17.0	16.7	17.9			

Laboratory Sample Designation		Units	NMAC Closure Criteria ¹	NMAC Closure Criteria ²	677486-033	677489-037	677486-038	677486-039	677486-040	677486-041	677486-043	677486-044	677486-045	677486-046	677486-047	677486-048	677486-052	677486-053	677486-054			
Sample Designation					SS-09 0-2'	SS-10 0-2'	SS-10 2-4'	SS-10 4-6'	SS-10 6-7'	SS-11 0-2'	SS-12 0-2'	SS-12 2-4'	SS-12 4-6'	SS-12 6-8'	SS-10 8-9'	SS-13 0-2'	SS-14 0-2'	SS-14 2-4'	SS-14 4-6'			
Date Collected					11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020
Sample Depth					0 - 2'	0 - 2'	2-4'	4-6'	6-7'	0 - 2'	0 - 2'	2-4'	4-6'	6-8'	8-9'	0 - 2'	0 - 2'	2-4'	4-6'			
Method	Analyte																					
8015	TPH	mg/kg	100	2,500	<49.8	<49.9	N/A	N/A	N/A	<50.1	<49.9	N/A	N/A	N/A	N/A	<50.2	<49.9	N/A	N/A			
8260	BENZENE	mg/kg	10	10	<0.00200	<0.00201	N/A	N/A	N/A	<0.00200	<0.00200	N/A	N/A	N/A	N/A	<0.00201	<0.00200	N/A	N/A			
	ETHYLBENZENE	mg/kg	--	--	<0.00200	<0.00201	N/A	N/A	N/A	<0.00200	<0.00200	N/A	N/A	N/A	N/A	<0.00201	<0.00200	N/A	N/A			
	TOLUENE	mg/kg	--	--	<0.00200	<0.00201	N/A	N/A	N/A	<0.00200	<0.00200	N/A	N/A	N/A	N/A	<0.00201	<0.00200	N/A	N/A			
	XYLENE	mg/kg	--	--	<0.00200	<0.00201	N/A	N/A	N/A	<0.00200	<0.00200	N/A	N/A	N/A	N/A	<0.00201	<0.00200	N/A	N/A			
	TOTAL BTEX	mg/kg	50	50	<0.00200	<0.00201	N/A	N/A	N/A	<0.00200	<0.00200	N/A	N/A	N/A	N/A	<0.00201	<0.00200	N/A	N/A			
300	CHLORIDE	mg/kg	600	10,000	18.9	739	74.9	<9.92	27.1	<9.98	7,740	5,450	47.1	34.7	<9.88	16.2	8,690	4,720	5,090			

Laboratory Sample Designation		Units	NMAC Closure Criteria ¹	NMAC Closure Criteria ²	677486-055	677486-056	677486-057	677486-062	677486-063	677486-064	677486-065	677769-001	677769-005	677769-006	677769-007	677769-008	677769-009	677769-012	677769-013			
Sample Designation					SS-14 6-8'	SS-14 8-9'	SS-15 0-2'	SS-16 0-2'	SS-16 2-4'	SS-16 4-6'	SS-16 6-8'	SS-17 0-2'	SS-18 0-2'	SS-18 2-4'	SS-18 4-6'	SS-18 6-8'	SS-19 0-2'	SS-20 0-2'	SS-20 2-4'			
Date Collected					11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020
Sample Depth					6-8'	8-9'	0 - 2'	0 - 2'	2-4'	4-6'	6-8'	0 - 2'	0 - 2'	2-4'	4-6'	6-8'	0 - 2'	0 - 2'	2-4'			
Method	Analyte																					
8015	TPH	mg/kg	100	2,500	N/A	N/A	<50.1	<49.9	N/A	N/A	N/A	<49.9	<50.1	N/A	N/A	N/A	<50.2	<50.1	N/A			
8260	BENZENE	mg/kg	10	10	N/A	N/A	<0.00200	<0.00198	N/A	N/A	N/A	<0.00200	<0.00202	N/A	N/A	N/A	<0.00200	<0.00199	N/A			
	ETHYLBENZENE	mg/kg	--	--	N/A	N/A	<0.00200	<0.00198	N/A	N/A	N/A	<0.00200	<0.00202	N/A	N/A	N/A	<0.00200	<0.00199	N/A			
	TOLUENE	mg/kg	--	--	N/A	N/A	<0.00200	<0.00198	N/A	N/A	N/A	<0.00200	<0.00202	N/A	N/A	N/A	<0.00200	<0.00199	N/A			
	XYLENE	mg/kg	--	--	N/A	N/A	<0.00200	<0.00198	N/A	N/A	N/A	<0.00200	<0.00202	N/A	N/A	N/A	<0.00200	<0.00199	N/A			
	TOTAL BTEX	mg/kg	50	50	N/A	N/A	<0.00200	<0.00198	N/A	N/A	N/A	<0.00200	<0.00202	N/A	N/A	N/A	<0.00200	<0.00199	N/A			
300	CHLORIDE	mg/kg	600	10,000	7,350	5,040	178	11,000	6,170	5,570	5,530	12.5	5,010	5,800	5,220	8,250	585	4,820	459			



**Table 1: Soil Analytical Data
Harrier Booster Surface Line
32.059697, -103.616531
Jal, Lea County, New Mexico
Incident Tracking No. NRM2028334152**

Laboratory Sample Designation		Units	NMAC Closure Criteria ¹	NMAC Closure Criteria ²	677769-014	677769-015	677769-016	677769-017	677769-018	677769-022	677769-023	677769-024	677769-025	677769-026	677769-027	677769-030	677769-031	677769-032	677769-033			
Sample Designation	SS-20 4-6'				SS-20 6-8'	SS-20 8-10'	SS-20 10-11'	SS-21 0-2'	SS-22 0-2'	SS-22 2-4'	SS-22 4-6'	SS-22 6-8'	SS-22 8-9'	SS-23 0-2'	SS-24 0-2'	SS-24 2-4'	SS-24 4-6'	SS-24 6-8'				
Date Collected	11/11/2020				11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020
Sample Depth	4-6'				6-8'	8-10'	10-11'	0 - 2'	0 - 2'	2-4'	4-6'	6-8'	8-9'	0 - 2'	0 - 2'	2-4'	4-6'	6-8'				
Method	Analyte																					
8015	TPH	mg/kg	100	2,500	N/A	N/A	N/A	N/A	<50.3	<49.9	N/A	N/A	N/A	N/A	<50.1	<49.8	N/A	N/A	N/A			
8260	BENZENE	mg/kg	10	10	N/A	N/A	N/A	N/A	<0.00202	<0.00200	N/A	N/A	N/A	N/A	<0.00200	<0.00200	N/A	N/A	N/A			
	ETHYLBENZENE	mg/kg	--	--	N/A	N/A	N/A	N/A	<0.00202	<0.00200	N/A	N/A	N/A	N/A	<0.00200	<0.00200	N/A	N/A	N/A			
	TOLUENE	mg/kg	--	--	N/A	N/A	N/A	N/A	<0.00202	<0.00200	N/A	N/A	N/A	N/A	<0.00200	<0.00200	N/A	N/A	N/A			
	XYLENE	mg/kg	--	--	N/A	N/A	N/A	N/A	<0.00202	<0.00200	N/A	N/A	N/A	N/A	<0.00200	<0.00200	N/A	N/A	N/A			
	TOTAL BTEX	mg/kg	50	50	N/A	N/A	N/A	N/A	<0.00202	<0.00200	N/A	N/A	N/A	N/A	<0.00200	<0.00200	N/A	N/A	N/A			
300	CHLORIDE	mg/kg	600	10,000	630	13.0	16.3	<9.90	26.4	6,950	7,240	2,940	520	22.5	11.2	5,000	8,040	1,650	116			

Laboratory Sample Designation		Units	NMAC Closure Criteria ¹	NMAC Closure Criteria ²	677769-034	677769-035	677769-036	677769-037	677769-040	677769-046	677769-048	677769-049	677769-050	677769-051	677769-052	677769-053	677769-057	677769-059	677769-063		
Sample Designation	SS-24 8-10'				SS-24 10-12'	SS-24 12-13'	SS-25 0-2'	SS-26 0-2'	SS-27 0-2'	SS-28 0-2'	SS-28 2-4'	SS-28 4-6'	SS-28 6-8'	SS-28 8-10'	SS-29 0-2'	SS-30 0-2'	SS-31 0-2'	SS-32 0-2'			
Date Collected	11/11/2020				11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020
Sample Depth	8-10'				10-12'	12-13'	0 - 2'	0 - 2'	0 - 2'	0 - 2'	2-4'	4-6'	8-10'	10-11'	0 - 2'	0 - 2'	0 - 2'	0 - 2'			
Method	Analyte																				
8015	TPH	mg/kg	100	2,500	N/A	N/A	N/A	<50.2	<50.3	<50.2	<49.8	N/A	N/A	N/A	N/A	<49.9	<50.1	<50.2	<50.3		
8260	BENZENE	mg/kg	10	10	N/A	N/A	N/A	<0.00199	<0.00198	<.000199	<0.00198	N/A	N/A	N/A	N/A	<0.00200	<0.00200	<0.00200	<0.00202		
	ETHYLBENZENE	mg/kg	--	--	N/A	N/A	N/A	<0.00199	<0.00198	<.000199	<0.00198	N/A	N/A	N/A	N/A	<0.00200	<0.00200	<0.00200	<0.00202		
	TOLUENE	mg/kg	--	--	N/A	N/A	N/A	<0.00199	<0.00198	<.000199	<0.00198	N/A	N/A	N/A	N/A	<0.00200	<0.00200	<0.00200	<0.00202		
	XYLENE	mg/kg	--	--	N/A	N/A	N/A	<0.00199	<0.00198	<.000199	<0.00198	N/A	N/A	N/A	N/A	<0.00200	<0.00200	<0.00200	<0.00202		
	TOTAL BTEX	mg/kg	50	50	N/A	N/A	N/A	<0.00199	<0.00198	<.000199	<0.00198	N/A	N/A	N/A	N/A	<0.00200	<0.00200	<0.00200	<0.00202		
300	CHLORIDE	mg/kg	600	10,000	3,700	2,270	2,350	18.6	21.6	<10.1	9,030	10,100	6,910	5,470	3,680	19.6	13.6	13.0	48		

Laboratory Sample Designation		Units	NMAC Closure Criteria ¹	NMAC Closure Criteria ²	677769-065	677769-067	677769-068	677769-069	677780-058	677780-059	677780-001	677780-002	677780-005	677780-008	677780-009	677780-10	677780-013	677780-016	677780-017		
Sample Designation	SS-33 0-2'				SS-34 0-2'	SS-34 2-4'	SS-35 0-2'	SS-36 0-2'	SS-36 2-4'	SS-37 0-2'	SS-38 0-2'	SS-39 0-2'	SS-40 0-2'	SS-40 2-4'	SS-41 0-2'	SS-42 0-2'	SS-43 0-2'	SS-43 2-4'			
Date Collected	11/11/2020				11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020
Sample Depth	0 - 2'				0 - 2'	2-4'	0 - 2'	0 - 2'	2-4'	0 - 2'	0 - 2'	0 - 2'	0 - 2'	0 - 2'	2-4'	0 - 2'	0 - 2'	0 - 2'	2-4'		
Method	Analyte																				
8015	TPH	mg/kg	100	2,500	<49.8	<49.9	N/A	<50.0	<50.2	N/A	<49.9	<49.9	<49.9	<50.2	N/A	<50.1	<50.3	<49.3	N/A		
8260	BENZENE	mg/kg	10	10	<0.00199	<0.00200	N/A	<0.00200	<0.00199	N/A	<0.00199	<0.00200	<0.00199	<0.00199	N/A	<0.00202	<0.00198	<0.00200	N/A		
	ETHYLBENZENE	mg/kg	--	--	<0.00199	<0.00200	N/A	<0.00200	<0.00199	N/A	<0.00199	<0.00200	<0.00199	<0.00199	N/A	<0.00202	<0.00198	<0.00200	N/A		
	TOLUENE	mg/kg	--	--	<0.00199	<0.00200	N/A	<0.00200	<0.00199	N/A	<0.00199	<0.00200	<0.00199	<0.00199	N/A	<0.00202	<0.00198	<0.00200	N/A		
	XYLENE	mg/kg	--	--	<0.00199	<0.00200	N/A	<0.00200	<0.00199	N/A	<0.00199	<0.00200	<0.00199	<0.00199	N/A	<0.00202	<0.00198	<0.00200	N/A		
	TOTAL BTEX	mg/kg	50	50	<0.00199	<0.00200	N/A	<0.00200	<0.00199	N/A	<0.00199	<0.00200	<0.00199	<0.00199	N/A	<0.00202	<0.00198	<0.00200	N/A		
300	CHLORIDE	mg/kg	600	10,000	35	6,960 D	4,440	14.7	2,200	632	27.8	13.8	40.8	6,740	63.2	15.2	19.7	1,410	229		



**Table 1: Soil Analytical Data
Harrier Booster Surface Line
32.059697, -103.616531
Jal, Lea County, New Mexico
Incident Tracking No. NRM2028334152**

Laboratory Sample Designation		Units	NMAC Closure Criteria ¹	NMAC Closure Criteria ²	677780-018	677780-019	677780-022	677780-023	677780-024	677780-028	677780-029	677780-030	677780-031	677780-034	677780-035	677780-036	677780-037	677780-041	677780-042			
Sample Designation	SS-43 4-6'				SS-44 0-2'	SS-45 0-2'	SS-45 2-4'	SS-46 0-2'	SS-47 0-2'	SS-47 2-4'	SS-27 4-6'	SS-48 0-2'	SS-49 0-2'	SS-49 2-4'	SS-49 4-5'	SS-50 0-2'	SS-51 0-2'	SS-51 2-4'				
Date Collected	11/11/2020				11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020
Sample Depth	4-5'				0 - 2'	0 - 2'	2-4'	0 - 2'	0 - 2'	2-4'	4-5'	0 - 2'	0 - 2'	2-4'	4-5'	0 - 2'	0 - 2'	2-4'	4-5'	0 - 2'	0 - 2'	2 - 4'
Method	Analyte																					
8015	TPH	mg/kg	100	2,500	N/A	<49.9	<50.3	N/A	<50.1	<50.3	N/A	N/A	<50.2	<50.2	N/A	N/A	<50.2	<50.1	N/A			
8260	BENZENE	mg/kg	10	10	N/A	<0.00200	<0.00200	N/A	<0.00198	<0.00200	N/A	N/A	<0.00200	<0.00200	N/A	N/A	<0.00200	<0.00200	N/A			
	ETHYLBENZENE	mg/kg	--	--	N/A	<0.00200	<0.00200	N/A	<0.00198	<0.00200	N/A	N/A	<0.00200	<0.00200	N/A	N/A	<0.00200	<0.00200	N/A			
	TOLUENE	mg/kg	--	--	N/A	<0.00200	<0.00200	N/A	<0.00198	<0.00200	N/A	N/A	<0.00200	<0.00200	N/A	N/A	<0.00200	<0.00200	N/A			
	XYLENE	mg/kg	--	--	N/A	<0.00200	<0.00200	N/A	<0.00198	<0.00200	N/A	N/A	<0.00200	<0.00200	N/A	N/A	<0.00200	<0.00200	N/A			
	TOTAL BTEX	mg/kg	50	50	N/A	<0.00200	<0.00200	N/A	<0.00198	<0.00200	N/A	N/A	<0.00200	<0.00200	N/A	N/A	<0.00200	<0.00200	N/A			
300	CHLORIDE	mg/kg	600	10,000	24.6	471	7,920	28.4	12.9	2,010	468	22.8	21.4	862	29.0	23.3	41.0	11,900	2,190			

Laboratory Sample Designation		Units	NMAC Closure Criteria ¹	NMAC Closure Criteria ²	677780-043	677780-044	677780-045	677780-049	677780-053	677780-054	677780-055	677778-001	677778-002	677778-003	677778-004	677778-008	677778-009	677778-010	677778-011			
Sample Designation	SS-51 4-6'				SS-51 6-8'	SS-52 0-2'	SS-53 0-2'	SS-54 0-2'	SS-54 2-4'	SS-55 0-2'	SS-56 0-2'	SS-56 2-4'	SS-56 4-6'	SS-57 0-2'	SS-58 0-2'	SS-59 0-2'	SS-59 2-4'	SS-59 4-6'				
Date Collected	11/11/2020				11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020
Sample Depth	4-6'				6-8'	0 - 2'	0 - 2'	0 - 2'	2-4'	0 - 2'	0 - 2'	2-4'	4-6'	0 - 2'	0 - 2'	0 - 2'	2-4'	4-6'				
Method	Analyte																					
8015	TPH	mg/kg	100	2,500	N/A	N/A	<50.3	<50.0	<49.9	N/A	<50.1	<49.9	N/A	N/A	<50.0	<49.9	<49.9	N/A	N/A			
8260	BENZENE	mg/kg	10	10	N/A	N/A	<0.00200	<0.00201	<0.00202	N/A	<0.00200	<0.00202	N/A	N/A	<0.00199	<0.00199	<0.00201	N/A	N/A			
	ETHYLBENZENE	mg/kg	--	--	N/A	N/A	<0.00200	<0.00201	<0.00202	N/A	<0.00200	<0.00202	N/A	N/A	<0.00199	<0.00199	<0.00201	N/A	N/A			
	TOLUENE	mg/kg	--	--	N/A	N/A	<0.00200	<0.00201	<0.00202	N/A	<0.00200	<0.00202	N/A	N/A	<0.00199	<0.00199	<0.00201	N/A	N/A			
	XYLENE	mg/kg	--	--	N/A	N/A	<0.00200	<0.00201	<0.00202	N/A	<0.00200	<0.00202	N/A	N/A	<0.00199	<0.00199	<0.00201	N/A	N/A			
	TOTAL BTEX	mg/kg	50	50	N/A	N/A	<0.00200	<0.00201	<0.00202	N/A	<0.00200	<0.00202	N/A	N/A	<0.00199	<0.00199	<0.00201	N/A	N/A			
300	CHLORIDE	mg/kg	600	10,000	790	89.7	134	13.4	797	10,000	174	8,280	13,700	3,080	23.9	11,200	2,240	28.7	15.3			

Laboratory Sample Designation		Units	NMAC Closure Criteria ¹	NMAC Closure Criteria ²	677778-012	677778-013	677778-014	677778-015	677778-019	677778-025	677778-026	677778-027	677778-028	677778-029	677778-030	677778-031	677778-032	677778-033	677778-037			
Sample Designation	SS-59 6-7'				SS-60 0-2'	SS-60 2-4'	SS-61 0-2'	SS-62 0-2'	SS-63 0-2'	SS-63 2-4'	SS-63 4-6'	SS-63 6-8'	SS-63 8-10'	SS-64 0-2'	SS-64 2-4'	SS-24 4-6'	SS-65 0-2'	SS-66 0-2'				
Date Collected	11/12/2020				11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020
Sample Depth	6-7'				0 - 2'	2-4'	0 - 2'	0 - 2'	0 - 2'	2-4'	4-6'	6-8'	8-10'	0 - 2'	2-4'	4-6'	0 - 2'	0 - 2'				
Method	Analyte																					
8015	TPH	mg/kg	100	2,500	N/A	<50.2	N/A	<49.8	<50.3	<49.9	N/A	N/A	N/A	N/A	<50.2	N/A	N/A	<49.8	<50.3			
8260	BENZENE	mg/kg	10	10	N/A	<0.00200	N/A	<0.00199	<0.00201	<0.00199	N/A	N/A	N/A	N/A	<0.00198	N/A	N/A	<0.00198	<0.00200			
	ETHYLBENZENE	mg/kg	--	--	N/A	<0.00200	N/A	<0.00199	<0.00201	<0.00199	N/A	N/A	N/A	N/A	<0.00198	N/A	N/A	<0.00198	<0.00200			
	TOLUENE	mg/kg	--	--	N/A	<0.00200	N/A	<0.00199	<0.00201	<0.00199	N/A	N/A	N/A	N/A	<0.00198	N/A	N/A	<0.00198	<0.00200			
	XYLENE	mg/kg	--	--	N/A	<0.00200	N/A	<0.00199	<0.00201	<0.00199	N/A	N/A	N/A	N/A	<0.00198	N/A	N/A	<0.00198	<0.00200			
	TOTAL BTEX	mg/kg	50	50	N/A	<0.00200	N/A	<0.00199	<0.00201	<0.00199	N/A	N/A	N/A	N/A	<0.00198	N/A	N/A	<0.00198	<0.00200			
300	CHLORIDE	mg/kg	600	10,000	<10.1	11,100	3,900	16.3	13.3	1,070	12.3	13.5	20.7	12.7	5,220	33.4	12.5	<9.94	<9.96			



**Table 1: Soil Analytical Data
Harrier Booster Surface Line
32.059697, -103.616531
Jal, Lea County, New Mexico
Incident Tracking No. NRM2028334152**

Laboratory Sample Designation		Units	NMAC Closure Criteria ¹	NMAC Closure Criteria ²	677778-041	677778-044	677778-047	677778-051
Sample Designation	Date Collected				SS-67 0-2'	SS-68 0-2'	SS-69 0-2'	SS-70 0-2'
Sample Depth	Method	Analyte			0 - 2'	0 - 2'	0 - 2'	0 - 2'
8015	TPH	mg/kg	100	2,500	<49.8	<50.0	<50.0	<49.9
8260	BENZENE	mg/kg	10	10	<0.00200	<0.00198	<0.00198	<0.00200
	ETHYLBENZENE	mg/kg	--	--	<0.00200	<0.00198	<0.00198	<0.00200
	TOLUENE	mg/kg	--	--	<0.00200	<0.00198	<0.00198	<0.00200
	XYLENE	mg/kg	--	--	<0.00200	<0.00198	<0.00198	<0.00200
	TOTAL BTEX	mg/kg	50	50	<0.00200	<0.00198	<0.00198	<0.00200
300	CHLORIDE	mg/kg	600	10,000	436	13.7	52.9	<10.1

Notes:

1) New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Table 1 Closure Criteria for Soils Impacted by a Release with Groundwater ≤50 feet bgs, issued August 8, 2018

2) New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Table 1 Closure Criteria for Soils Impacted by a Release with Groundwater >50 feet and <100 feet bgs, issued August 8, 2018

D: The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

K: Sample analyzed outside of recommended hold time.

mg/kg = milligrams per kilogram

Bold = Analyte was detected at concentrations above laboratory sample detection limits

Highlighted = Analyte was detected at concentrations above NMAC Closure Criteria

"--" = Not applicable





Table 2: Soil Boring GPS Coordinantes
Harrier Surface Line
32.059697, -103.616531
Jal, Lea County, New Mexico
Incident Tracking No. NRM2028334152

Location	Description	Latitude	Longitude	Location	Description	Latitude	Longitude
SS-01	Soil Boring	32.05943	-103.61732	SS-36	Soil Boring	32.05384	-103.61695
SS-02	Soil Boring	32.05958	-103.61695	SS-37	Soil Boring	32.05357	-103.6171
SS-03	Soil Boring	32.05968	-103.61685	SS-38	Soil Boring	32.05332	-103.61697
SS-04	Soil Boring	32.05977	-103.6167	SS-39	Soil Boring	32.05324	-103.61718
SS-05	Soil Boring	32.0591	-103.61732	SS-40	Soil Boring	32.05306	-103.61705
SS-06	Soil Boring	32.05894	-103.61717	SS-41	Soil Boring	32.05285	-103.61709
SS-07	Soil Boring	32.05884	-103.61705	SS-42	Soil Boring	32.05271	-103.61714
SS-08	Soil Boring	32.05875	-103.61717	SS-43	Soil Boring	32.05256	-103.61719
SS-09	Soil Boring	32.05865	-103.61729	SS-44	Soil Boring	32.0524	-103.61729
SS-10	Soil Boring	32.05849	-103.61717	SS-45	Soil Boring	32.05224	-103.61729
SS-11	Soil Boring	32.05841	-103.61708	SS-46	Soil Boring	32.05204	-103.61727
SS-12	Soil Boring	32.05827	-103.61717	SS-47	Soil Boring	32.05191	-103.61732
SS-13	Soil Boring	32.05817	-103.61728	SS-48	Soil Boring	32.05172	-103.61736
SS-14	Soil Boring	32.05803	-103.6172	SS-49	Soil Boring	32.05152	-103.61729
SS-15	Soil Boring	32.05788	-103.6171	SS-50	Soil Boring	32.05139	-103.61715
SS-16	Soil Boring	32.0572	-103.61719	SS-51	Soil Boring	32.05118	-103.61732
SS-17	Soil Boring	32.05756	-103.61725	SS-52	Soil Boring	32.05101	-103.61745
SS-18	Soil Boring	32.0574	-103.61718	SS-53	Soil Boring	32.05088	-103.6173
SS-19	Soil Boring	32.0573	-103.61707	SS-54	Soil Boring	32.05076	-103.61719
SS-20	Soil Boring	32.05709	-103.61716	SS-55	Soil Boring	32.0509	-103.61704
SS-21	Soil Boring	32.05693	-103.61723	SS-56	Soil Boring	32.05075	-103.61703
SS-22	Soil Boring	32.05674	-103.61714	SS-57	Soil Boring	32.05061	-103.61722
SS-23	Soil Boring	32.05657	-103.61703	SS-58	Soil Boring	32.05056	-103.617
SS-24	Soil Boring	32.0563	-103.61715	SS-59	Soil Boring	32.05042	-103.61707
SS-25	Soil Boring	32.05611	-103.61722	SS-60	Soil Boring	32.0503	-103.61694
SS-26	Soil Boring	32.05597	-103.61714	SS-61	Soil Boring	32.05005	-103.61665
SS-27	Soil Boring	32.05539	-103.61708	SS-62	Soil Boring	32.05007	-103.61687
SS-28	Soil Boring	32.05559	-103.61713	SS-63	Soil Boring	32.05003	-103.61716
SS-29	Soil Boring	32.0554	-103.61721	SS-64	Soil Boring	32.04992	-103.61706
SS-30	Soil Boring	32.0552	-103.61713	SS-65	Soil Boring	32.04964	-103.61715
SS-31	Soil Boring	32.05495	-103.61701	SS-66	Soil Boring	32.04967	-103.6172
SS-32	Soil Boring	32.05473	-103.6171	SS-67	Soil Boring	32.04961	-103.61709
SS-33	Soil Boring	32.05455	-103.6172	SS-68	Soil Boring	32.0495	-103.61695
SS-34	Soil Boring	32.05437	-103.61708	SS-69	Soil Boring	32.04943	-103.61708
SS-35	Soil Boring	32.05418	-103.61699	SS-70	Soil Boring	32.04932	-103.61698

NOTES:

GPS coordinates were collected on November 10 - 12, 2020, by Mr. Travis Reddick and Mr. Tyler Eubank utilizing Garmin GPSMAP 64sc unit ID 3951309141.



Table 3: Proposed Remediation GPS Coordinates Barrier Surface Line 32.059697, -103.616531 Jal, Lea County, New Mexico Incident Tracking No. NRM2028334152							
Location	Description	Latitude	Longitude	Location	Description	Latitude	Longitude
SS-03	NE	32.0597	-103.6168	SS-40	NE	32.0531	-103.617
	SE	32.0596	-103.6168		SE	32.053	-103.617
	SW	32.0596	-103.6169		SW	32.053	-103.6171
	NW	32.0597	-103.6169		NW	32.0531	-103.6171
SS-06	NE	32.059	-103.6171	SS-43	NE	32.0526	-103.6172
	SE	32.0589	-103.6171		SE	32.0525	-103.6172
	SW	32.0589	-103.6172		SW	32.0525	-103.6173
	NW	32.059	-103.6172		NW	32.0526	-103.6173
SS-10	NE	32.0585	-103.6171	SS-45	NE	32.0523	-103.6173
	SE	32.0584	-103.6171		SE	32.0522	-103.6173
	SW	32.0584	-103.6172		SW	32.0522	-103.6174
	NW	32.0585	-103.6172		NW	32.0523	-103.6174
SS-12	NE	32.0583	-103.6171	SS-47	NE	32.0519	-103.6173
	SE	32.0582	-103.6171		SE	32.0518	-103.6173
	SW	32.0582	-103.6172		SW	32.0518	-103.6174
	NW	32.0583	-103.6172		NW	32.0519	-103.6174
SS-14	NE	32.0581	-103.6172	SS-49	NE	32.0515	-103.6173
	SE	32.058	-103.6172		SE	32.0514	-103.6173
	SW	32.058	-103.6173		SW	32.0514	-103.6174
	NW	32.0581	-103.6173		NW	32.0515	-103.6174
SS-16	NE	32.0572	-103.6172	SS-51	NE	32.0512	-103.6173
	SE	32.0571	-103.6172		SE	32.0511	-103.6173
	SW	32.0571	-103.6173		SW	32.0511	-103.6174
	NW	32.0572	-103.6173		NW	32.0512	-103.6174
SS-18	NE	32.0574	-103.6171	SS-54	NE	32.0508	-103.6172
	SE	32.0573	-103.6171		SE	32.0507	-103.6172
	SW	32.0573	-103.6172		SW	32.0507	-103.6173
	NW	32.0574	-103.6172		NW	32.0508	-103.6173
SS-20	NE	32.0571	-103.6171	SS-56	NE	32.0508	-103.617
	SE	32.057	-103.6171		SE	32.0507	-103.617
	SW	32.057	-103.6172		SW	32.0507	-103.618
	NW	32.0571	-103.6172		NW	32.0508	-103.618
SS-22	NE	32.0568	-103.6171	SS-58	NE	32.0506	-103.617
	SE	32.0567	-103.6171		SE	32.0505	-103.617
	SW	32.0567	-103.6172		SW	32.0505	-103.6171
	NW	32.0568	-103.6172		NW	32.0506	-103.6171
SS-24	NE	32.0563	-103.6171	SS-59	NE	32.0504	-103.617
	SE	32.0562	-103.6171		SE	32.0503	-103.617
	SW	32.0562	-103.6172		SW	32.0503	-103.6171
	NW	32.0563	-103.6172		NW	32.0504	-103.6171
SS-28	NE	32.0556	-103.6171	SS-60	NE	32.0503	-103.6169
	SE	32.0555	-103.6171		SE	32.0502	-103.6169
	SW	32.0555	-103.6172		SW	32.0502	-103.617
	NW	32.0556	-103.6172		NW	32.0503	-103.617
SS-34	NE	32.0544	-103.617	SS-63	NE	32.0501	-103.6171
	SE	32.0543	-103.617		SE	32.05	-103.6171
	SW	32.0543	-103.6171		SW	32.05	-103.6172
	NW	32.0544	-103.6171		NW	32.0501	-103.6172
SS-36	NE	32.0539	-103.6169	SS-64	NE	32.0499	-103.617
	SE	32.0538	-103.6169		SE	32.0498	-103.617
	SW	32.0538	-103.617		SW	32.0498	-103.6171
	NW	32.0539	-103.617		NW	32.0499	-103.6171

APPENDIX C – BORING LOGS



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SS-01	Date Drilled:	November 10, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	6'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 6' due to caliche	-0-	0-2	0.4	0.0	
	-1-				
	-2-	2-4	0.5	0.0	
	-3-				
	-4-	4-6	0.8	0.0	
	-5-				
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SS-02	Date Drilled:	November 10, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	8'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Drilling Method:	DP

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 8' due to caliche	-0-	0 - 2	0.4	0.0	
	-1-				
	-2-	2-4	0.6	0.0	
	-3-				
	-4-	4-6	0.5	0.0	
	-5-				
	-6-	6-8	0.4	0.0	
	-7-				
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SS-03	Date Drilled:	November 10, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	9'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Moderately sorted. No odor. Wet in some depths. Very soft sand. Refusal at 9' due to caliche	-0-	0-2	0.7	1.10	
	-1-				
	-2-	2-4	0.4	0.0	
	-3-				
	-4-	4-6	0.6	0.0	
	-5-				
	-6-	6-8	0.4	0.0	
	-7-				
	-8-	8-9	0.3	0.0	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
-19-	--	--	--		
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SS-04	Date Drilled:	November 10, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	8'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 8' due to caliche	-0-	0-2	0.4	0.0	
	-1-				
	-2-	2-4	0.4	0.0	
	-3-				
	-4-	4-6	0.4	0.0	
	-5-				
	-6-	6-8	0.4	0.0	
	-7-				
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SS-05	Date Drilled:	November 10, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	7'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)																																																																					
Red Sand, boulders of caliche.	-0-	0 - 2	0.5	0.0																																																																						
	-1-						-2-	2-4	0.4	0.0	-3-		-4-	4-6	0.3	0.0	-5-	Refusal at 7' due to caliche	-6-	6-7	0.3	0.0	-7-	--	--	--	-8-	--	--	--	-9-	--	--	--	-10-	--	--	--	-11-	--	--	--	-12-	--	--	--	-13-	--	--	--	-14-	--	--	--	-15-	--	--	--	-16-	--	--	--	-17-	--	--	--	-18-	--	--	--	-19-	--	--	--
	-2-	2-4	0.4	0.0																																																																						
	-3-						-4-	4-6	0.3	0.0	-5-	Refusal at 7' due to caliche	-6-	6-7	0.3	0.0	-7-		--	--	--	-8-	--	--	--	-9-	--	--	--	-10-	--	--	--	-11-	--	--	--	-12-	--	--	--	-13-	--	--	--	-14-	--	--	--	-15-	--	--	--	-16-	--	--	--	-17-	--	--	--	-18-	--	--	--	-19-	--	--	--	-20-	--	--	--	
	-4-	4-6	0.3	0.0																																																																						
	-5-					Refusal at 7' due to caliche	-6-	6-7	0.3	0.0	-7-		--	--	--	-8-	--		--	--	-9-	--	--	--	-10-	--	--	--	-11-	--	--	--	-12-	--	--	--	-13-	--	--	--	-14-	--	--	--	-15-	--	--	--	-16-	--	--	--	-17-	--	--	--	-18-	--	--	--	-19-	--	--	--	-20-	--	--	--						
Refusal at 7' due to caliche	-6-	6-7	0.3	0.0																																																																						
	-7-	--	--	--																																																																						
	-8-	--	--	--																																																																						
	-9-	--	--	--																																																																						
	-10-	--	--	--																																																																						
	-11-	--	--	--																																																																						
	-12-	--	--	--																																																																						
	-13-	--	--	--																																																																						
	-14-	--	--	--																																																																						
	-15-	--	--	--																																																																						
	-16-	--	--	--																																																																						
	-17-	--	--	--																																																																						
	-18-	--	--	--																																																																						
	-19-	--	--	--																																																																						
	-20-	--	--	--																																																																						

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SS-06	Date Drilled:	November 10, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	7'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 7' due to caliche	-0-	0-2	0.5	0.68	
	-1-				
	-2-	2-4	0.6	0.0	
	-3-				
	-4-	4-6	0.4	0.0	
	-5-				
	-6-	6-7	0.7	0.0	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SS-07	Date Drilled:	November 10, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	7'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 7' due to caliche	-0-	0 – 2	0.6	0.0	
	-1-				
	-2-	2 – 4	0.4	0.0	
	-3-				
	-4-	4 – 6	0.4	0.0	
	-5-				
	-6-	6 – 7	0.4	0.0	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-08	Date Drilled:	November 10, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	7'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 7' due to caliche	-0-	0 – 2	0.3	0.0	
	-1-				
	-2-	2 – 4	0.3	0.0	
	-3-				
	-4-	4 – 6	0.5	0.0	
	-5-				
	-6-	6 – 7	0.4	0.0	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-09	Date Drilled:	November 10, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	8'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 8' due to caliche	-0-	0 – 2	0.5	0.0	
	-1-				
	-2-	2 – 4	0.3	0.0	
	-3-				
	-4-	4 – 6	0.6	0.0	
	-5-				
	-6-	6 – 8	0.5	0.0	
	-7-				
	-8-	--	--	--	
	-9-				
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-10	Date Drilled:	November 10, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	7'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to orange sand. Very fine grained. Less consolidated and sorted. No odor, Dry. Very soft sand. Refusal at 7' due to caliche	-0-	0 – 2	0.5	0.0	
	-1-				
	-2-	2 – 4	0.5	0.0	
	-3-				
	-4-	4 – 6	0.5	0.0	
	-5-				
	-6-	6 – 7	0.5	0.0	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-11	Date Drilled:	November 10, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	4'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 4'	-0-	0 - 2	0.5	0.0	
	-1-				
	-2-	2 - 4	0.6	0.0	
	-3-				
	-4-	--	--	--	
	-5-	--	--	--	
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-12	Date Drilled:	November 10, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	9'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 9' due to caliche	-0-	0 - 2	1.3	0.0	
	-1-				
	-2-	2 - 4	0.9	0.0	
	-3-				
	-4-	4 - 6	1.4	0.0	
	-5-				
	-6-	6 - 8	0.5	0.0	
	-7-				
	-8-	8 - 9	0.6	0.0	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-13	Date Drilled:	November 10, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	7'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 7' due to caliche	-0-	0 – 2	0.6	0.0	
	-1-				
	-2-	2 – 4	0.6	0.0	
	-3-				
	-4-	4 – 6	0.6	0.0	
	-5-				
	-6-	6 – 7	0.5	0.0	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-14	Date Drilled:	November 10, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	9'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 9' due to caliche	-0-	0 – 2	1.5	0.0	
	-1-				
	-2-	2 – 4	0.8	0.0	
	-3-				
	-4-	4 – 6	0.9	0.0	
	-5-				
	-6-	6 – 8	0.7	0.0	
	-7-				
	-8-	8 – 9	0.9	0.0	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-15	Date Drilled:	November 10, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	10'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion <i>(graphical representation only, not to scale)</i>
Red Sand, moderate sorting, white models, small grain size Refusal at 10' due to caliche	-0-	0 - 2	0.7	0.0	
	-1-				
	-2-	2 - 4	0.6	0.0	
	-3-				
	-4-	4 - 6	0.6	0.0	
	-5-				
	-6-	6 - 8	0.5	0.0	
	-7-				
	-8-	8 - 10	0.5	0.0	
	-9-				
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-16	Date Drilled:	November 10, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	8'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Red Sand, moist, small grain size Refusal at 8' due to caliche	-0-	0 - 2	0.5	0.0	
	-1-				
	-2-	2 - 4	0.8	0.0	
	-3-				
	-4-	4 - 6	0.6	0.0	
	-5-				
	-6-	6 - 8	0.5	0.0	
	-7-				
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-17	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	8'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 8' due to caliche	-0-	0 - 2	0.4	0.0	
	-1-				
	-2-	2 - 4	0.6	0.0	
	-3-				
	-4-	4 - 6	0.7	0.0	
	-5-				
	-6-	6 - 8	0.7	0.0	
	-7-				
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-18	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	8'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Moist, orange sand, small grain size Refusal at 8' due to caliche	-0-	0 - 2	1.6	0.0	
	-1-				
	-2-	2 - 4	1.3	0.0	
	-3-				
	-4-	4 - 6	1.4	0.0	
	-5-				
	-6-	6 - 8	0.9	0.0	
	-7-				
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-19	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	5'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry, Very soft sand, white models. Refusal at 5' due to caliche	-0-	0 – 2	0.5	0.0	
	-1-				
	-2-	2 – 4	0.5	0.0	
	-3-				
	-4-	4 – 5	0.5	0.0	
	-5-	--	--	--	
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-20	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	11'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 11' due to caliche	-0-	0 - 2	0.3	0.0	
	-1-				
	-2-	2 - 4	0.4	0.0	
	-3-				
	-4-	4 - 6	0.5	0.0	
	-5-				
	-6-	6 - 8	0.4	0.0	
	-7-				
	-8-	8 - 10	0.5	0.0	
	-9-				
	-10-	10 - 11	0.4	0.0	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-21	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	8'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 8' due to caliche	-0-	0 - 2	0.5	0.0	
	-1-				
	-2-	2 - 4	0.6	0.0	
	-3-				
	-4-	4 - 6	0.7	0.0	
	-5-				
	-6-	6 - 8	0.6	0.0	
	-7-				
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-22	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	9'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 9' due to caliche	-0-	0 – 2	0.5	0.0	
	-1-				
	-2-	2 – 4	0.5	0.0	
	-3-				
	-4-	4 – 6	0.5	0.0	
	-5-				
	-6-	6 – 8	0.5	0.0	
	-7-				
	-8-	8 – 9	0.6	0.0	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
-19-	--	--	--		
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-23	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	6'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 6' due to caliche	-0-	0 - 2	0.5	0.0	
	-1-				
	-2-	2 - 4	0.4	0.0	
	-3-				
	-4-	4 - 6	0.6	0.0	
	-5-				
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SS-24	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	13'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 13' due to caliche	-0-	0 – 2	1.7	0.0	
	-1-				
	-2-	2 – 4	1.5	0.0	
	-3-				
	-4-	4 – 6	1.0	0.0	
	-5-				
	-6-	6 – 8	0.7	0.0	
	-7-				
	-8-	8 – 10	0.6	0.0	
	-9-				
	-10-	10 – 12	0.6	0.0	
	-11-				
	-12-	12 – 13	0.6	0.0	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
-19-	--	--	--		
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-25	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	6'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 6' due to caliche	-0-	0 - 2	0.5	0.0	
	-1-				
	-2-	2 - 4	0.4	0.0	
	-3-				
	-4-	4 - 6	0.6	0.0	
	-5-				
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-26	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	11'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Loosely consolidated. Well sorted. No odor, Dry. Very soft sand.	-0-	0 – 2	0.6	0.0	
	-1-				
	-2-	2 – 4	0.7	0.0	
	-3-				
	-4-	4 – 6	0.7	0.0	
	-5-				
	-6-	6 – 8	0.6	0.0	
	-7-				
	-8-	8 – 10	0.6	0.0	
	-9-				
Refusal at 11' due to caliche	-10-	10 – 11	0.6	0.0	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-27	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	4'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand.	-0-	0 – 2	0.5	0.0	
	-1-				
Refusal at 4' due to caliche	-2-	2 – 4	0.5	0.0	
	-3-				
	-4-	--	--	--	
	-5-	--	--	--	
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
	-20-	--	--	--	

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-28	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	11'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion <i>(graphical representation only, not to scale)</i>
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 11'	-0-	0 – 2	1.3	0.0	
	-1-				
	-2-	2 – 4	0.8	0.0	
	-3-				
	-4-	4 – 6	1.0	0.0	
	-5-				
	-6-	6 – 8	0.7	0.0	
	-7-				
	-8-	8 – 10	0.7	0.0	
	-9-				
	-10-	10 – 11	0.7	0.0	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-29	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	7'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 7' due to caliche	-0-	0 – 2	0.5	0.0	
	-1-				
	-2-	2 – 4	0.4	0.0	
	-3-				
	-4-	4 – 6	0.5	0.0	
	-5-				
	-6-	6 – 7	0.4	0.0	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-30	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	4'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand.	-0-	0 – 2	0.3	0.0	
	-1-				
Refusal at 4' due to caliche	-2-	2 – 4	0.4	0.0	
	-3-				
	-4-	--	--	--	
	-5-	--	--	--	
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
	-20-	--	--	--	

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-31	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	7'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 7' due to caliche	-0-	0 – 2	0.5	0.0	
	-1-				
	-2-	2 – 4	0.4	0.0	
	-3-				
	-4-	4 – 6	0.5	0.0	
	-5-				
	-6-	6 – 7	0.6	0.0	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-32	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	4'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 4' due to caliche	-0-	0 - 2	0.3	0.0	
	-1-				
	-2-	2 - 4	0.5	0.0	
	-3-				
	-4-	--	--	--	
	-5-	--	--	--	
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-33	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	4'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 4' due to caliche	-0-	0 - 2	0.4	0.0	
	-1-				
	-2-	2 - 4	0.6	0.0	
	-3-				
	-4-	--	--	--	
	-5-	--	--	--	
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-34	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	4'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, moist throughout. Very soft sand. Refusal at 4' due to caliche	-0-	0 - 2	1.0	0.0	
	-1-				
	-2-	2 - 4	0.4	0.0	
	-3-				
	-4-	--	--	--	
	-5-	--	--	--	
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-35	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	4'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 4' due to caliche	-0-	0 - 2	0.5	0.0	
	-1-				
	-2-	2 - 4	0.4	0.0	
	-3-				
	-4-	--	--	--	
	-5-				
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-36	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	6'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 6' due to caliche	-0-	0 - 2	0.6	0.0	
	-1-				
	-2-	2 - 4	0.9	0.0	
	-3-				
	-4-	4 - 6	0.8	0.0	
	-5-				
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-37	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	7'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand.	-0-	0 - 2	0.4	0.0	
	-1-				
No recovery between 2 and 5 feet bgs, light brown to red sand, fine grained, well sorted, no odor, dry.	-2-	NR	--	--	
	-3-	NR	--	--	
	-4-	NR	--	--	
	-5-	NR	--	--	
	-6-	NR	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
Refusal at 7' due to caliche	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
	-20-	--	--	--	

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-38	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	6'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 6' due to caliche	-0-	0 - 2	0.4	0.0	
	-1-				
	-2-	2 - 4	0.4	0.0	
	-3-				
	-4-	4 - 6	0.4	0.0	
	-5-				
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-39	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	5'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. White models.	-0-	0 – 2	0.3	0.0	
	-1-				
	-2-	2 – 4	0.4	0.0	
	-3-				
Refusal at 5' due to caliche	-4-	4 – 6	0.3	0.0	
	-5-	--	--	--	
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
	-20-	--	--	--	

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-40	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	4'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 4' due to caliche	-0-	0 - 2	0.4	0.0	
	-1-				
	-2-	2 - 4	0.4	0.0	
	-3-				
	-4-	--	--	--	
	-5-	--	--	--	
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-41	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	6'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 6' due to caliche	-0-	0 - 2	0.4	0.0	
	-1-				
	-2-	2 - 4	0.4	0.0	
	-3-				
	-4-	4 - 6	0.4	0.0	
	-5-				
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-42	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	5'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 5' due to caliche	-0-	0 – 2	0.4	0.0	
	-1-				
	-2-	2 – 4	0.4	0.0	
	-3-				
	-4-	4 – 5	0.6	0.0	
	-5-	--	--	--	
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-43	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	5'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 5' due to caliche	-0-	0 - 2	0.8	0.0	
	-1-				
	-2-	2 - 4	0.4	0.0	
	-3-				
	-4-	4 - 5	0.7	0.0	
	-5-	--	--	--	
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-44	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	5'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Moist. Very soft sand. White Models. Refusal at 5' due to caliche	-0-	0 – 2	0.4	0.0	
	-1-				
	-2-	2 – 4	0.4	0.0	
	-3-				
	-4-	4 – 5	0.4	0.0	
	-5-	--	--	--	
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-45	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	4'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 4' due to caliche	-0-	0 - 2	0.9	0.0	
	-1-				
	-2-	2 - 4	0.7	0.0	
	-3-				
	-4-	--	--	--	
	-5-	--	--	--	
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-46	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	8'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well sorted. No odor, Dry. Very soft sand. Refusal at 8' due to caliche	-0-	0 - 2	0.8	0.0	
	-1-				
	-2-	2 - 4	0.5	0.0	
	-3-				
	-4-	4 - 6	0.8	0.0	
	-5-				
	-6-	6 - 8	0.8	0.0	
	-7-				
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-47	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	5'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand.	-0-	0 – 2	0.3	0.0	
	-1-				
	-2-	2 – 4	0.5	0.0	
	-3-				
Refusal at 5' due to caliche	-4-	4 – 5	0.4	0.0	
	-5-	--	--	--	
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
	-20-	--	--	--	

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-48	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	6'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. White models Refusal at 6' due to caliche	-0-	0 - 2	0.5	0.0	
	-1-				
	-2-	2 - 4	0.8	0.0	
	-3-				
	-4-	4 - 6	0.8	0.0	
	-5-				
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-49	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	5'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand.	-0-	0 – 2	0.7	0.0	
	-1-				
	-2-	2 – 4	0.8	0.0	
	-3-				
Refusal at 5' due to caliche	-4-	4 – 5	0.9	0.0	
	-5-	--	--	--	
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
	-20-	--	--	--	

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-50	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	7'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 7' due to caliche	-0-	0 – 2	9.4	0.0	
	-1-				
	-2-	2 – 4	2.4	0.0	
	-3-				
	-4-	4 – 6	1.8	0.0	
	-5-				
	-6-	6 – 7	1.7	0.0	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-51	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	8'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 8' due to caliche	-0-	0 - 2	1.1	0.0	
	-1-				
	-2-	2 - 4	1.5	0.0	
	-3-				
	-4-	4 - 6	1.2	0.0	
	-5-				
	-6-	6 - 8	1.2	0.0	
	-7-				
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-52	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	8'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 8' due to caliche	-0-	0 - 2	0.9	0.0	
	-1-				
	-2-	2 - 4	1.0	0.0	
	-3-				
	-4-	4 - 6	1.1	0.0	
	-5-				
	-6-	6 - 8	0.9	0.0	
	-7-				
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-53	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	7'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 7' due to caliche	-0-	0 – 2	0.4	0.0	
	-1-				
	-2-	2 – 4	0.4	0.0	
	-3-				
	-4-	4 – 6	0.8	0.0	
	-5-				
	-6-	6 – 7	0.7	0.0	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-54	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	4'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand.	-0-	0 – 2	0.7	0.0	
	-1-				
Refusal at 4' due to caliche	-2-	2 – 4	0.8	0.0	
	-3-				
	-4-	--	--	--	
	-5-	--	--	--	
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
	-20-	--	--	--	

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-55	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	4'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand.	-0-	0 - 2	0.9	0.0	
	-1-				
Refusal at 4' due to caliche	-2-	2 - 4	0.8	0.0	
	-3-				
	-4-	--	--	--	
	-5-	--	--	--	
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
	-20-	--	--	--	

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-56	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	6'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 6' due to caliche	-0-	0 - 2	0.7	0.0	
	-1-				
	-2-	2 - 4	0.7	0.0	
	-3-				
	-4-	4 - 6	0.6	0.0	
	-5-				
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-57	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	7'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. White Models Refusal at 7' due to caliche	-0-	0 – 2	0.9	0.0	
	-1-				
	-2-	2 – 4	0.8	0.0	
	-3-				
	-4-	4 – 6	0.8	0.0	
	-5-				
	-6-	6 – 7	0.9	0.0	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-58	Date Drilled:	November 11, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	2'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 2' due to caliche	-0-	0 - 2	1.2	0.0	
	-1-				
	-2-	--	--	--	
	-3-	--	--	--	
	-4-	--	--	--	
	-5-	--	--	--	
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-59	Date Drilled:	November 12, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	7'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand.	-0-	0 – 2	1.0	0.0	
	-1-				
	-2-	2 – 4	0.9	0.0	
	-3-				
	-4-	4 – 6	0.9	0.0	
	-5-				
Refusal at 7' due to caliche	-6-	6 – 7	1.1	0.0	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
	-20-	--	--	--	

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-60	Date Drilled:	November 12, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	4'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor. Moist. Very soft sand. Refusal at 4' due to caliche	-0-	0 - 2	1.0	0.0	
	-1-				
	-2-	2 - 4	0.9	0.0	
	-3-				
	-4-	--	--	--	
	-5-	--	--	--	
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-61	Date Drilled:	November 12, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	8'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 7' due to caliche	-0-	0 - 2	0.8	0.0	
	-1-				
	-2-	2 - 4	0.8	0.0	
	-3-				
	-4-	4 - 6	0.8	0.0	
	-5-				
	-6-	6 - 8	1.0	0.0	
	-7-				
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-62	Date Drilled:	November 12, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	11'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)	
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand.	-0-	0 – 2	0.9	0.0		
	-1-					
	-2-	2 – 4	0.7	0.0		
	-3-					
	-4-	4 – 6	0.8	0.0		
	-5-					
	-6-	6 – 8	0.7	0.0		
	-7-					
	-8-	8 – 10	0.8	0.0		
	-9-					
	Refusal at 11' due to caliche	-10-	10 – 11	0.8		0.0
		-11-	--	--		--
		-12-	--	--		--
		-13-	--	--		--
		-14-	--	--		--
		-15-	--	--		--
		-16-	--	--		--
		-17-	--	--		--
		-18-	--	--		--
-19-		--	--	--		
-20-	--	--	--			

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-63	Date Drilled:	November 12, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	10'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. White models Refusal at 10' due to caliche	-0-	0 – 2	0.9	0.0	
	-1-				
	-2-	2 – 4	0.6	0.0	
	-3-				
	-4-	4 – 6	0.7	0.0	
	-5-				
	-6-	6 – 8	0.5	0.0	
	-7-				
	-8-	8 – 10	0.5	0.0	
	-9-				
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
-19-	--	--	--		
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-64	Date Drilled:	November 12, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	6'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 6' due to caliche	-0-	0 - 2	0.7	0.0	
	-1-				
	-2-	2 - 4	0.6	0.0	
	-3-				
	-4-	4 - 6	0.7	0.0	
	-5-				
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-65	Date Drilled:	November 12, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	7'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 7' due to caliche	-0-	0 - 2	0.6	0.0	
	-1-				
	-2-	2 - 4	0.6	0.0	
	-3-				
	-4-	4 - 6	0.6	0.0	
	-5-				
	-6-	6 - 7	0.6	0.0	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-66	Date Drilled:	November 12, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	7'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 7' due to caliche	-0-	0 - 2	0.5	0.0	
	-1-				
	-2-	2 - 4	0.5	0.0	
	-3-				
	-4-	4 - 6	0.6	0.0	
	-5-				
	-6-	6 - 7	0.5	0.0	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-67	Date Drilled:	November 12, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	6'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 6' due to caliche	-0-	0 - 2	0.4	0.0	
	-1-				
	-2-	2 - 4	0.6	0.0	
	-3-				
	-4-	4 - 6	0.5	0.0	
	-5-				
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-68	Date Drilled:	November 12, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	5'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand.	-0-	0 – 2	0.7	0.0	
	-1-				
	-2-	2 – 4	0.7	0.0	
	-3-				
Refusal at 5' due to caliche	-4-	4 – 5	0.6	0.0	
	-5-	--	--	--	
	-6-	--	--	--	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
	-20-	--	--	--	

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-69	Date Drilled:	November 12, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	7'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand. Refusal at 7' due to caliche	-0-	0 – 2	0.6	0.0	
	-1-				
	-2-	2 – 4	0.4	0.0	
	-3-				
	-4-	4 – 6	0.4	0.0	
	-5-				
	-6-	6 – 7	0.5	0.0	
	-7-	--	--	--	
	-8-	--	--	--	
	-9-	--	--	--	
	-10-	--	--	--	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.



RECORD OF SUBSURFACE EXPLORATION

KJ Environmental & Civil Engineering

500 Moseley Road • Cross Roads, TX 76227
 940-387-0805 • FAX 940-387-0830

Client Name:	OWL SWD Operating, LLC	Well/Boring #	SB-70	Date Drilled:	November 12, 2020
Client Address:	8201 Preston Road, Suite 520, Dallas, Texas 75225	Depth of Boring:	11'	Diameter of Boring:	2.25"
Project Name:	Harrier Surface Line Spill	Depth of Well:	N/A	Diameter of Screen:	N/A
Project Address:	32.059697, -103.616531	Length of Screen:	N/A	Diameter of Casing:	N/A
Driller:	JR Drilling, LLC	Length of Casing:	N/A	Slot Size:	N/A
Drilling Method:	DP	Sampling Method:	Acetate Sleeve	Logged By:	TE
				Well Material:	N/A

Description / Remarks (Color, Grain Size, Texture, Structure, Consistency, Moisture)	Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Well Completion (graphical representation only, not to scale)
Light brown to red sand. Very fine grained. Well consolidated. Well sorted. No odor, Dry. Very soft sand.	-0-	0 – 2	0.6	0.0	
	-1-				
	-2-	2 – 4	0.8	0.0	
	-3-				
	-4-	4 – 6	0.5	0.0	
	-5-				
	-6-	6 – 8	0.6	0.0	
	-7-				
	-8-	8 – 10	0.6	0.0	
	-9-				
Refusal at 11' due to caliche	-10-	10 – 11	0.8	0.0	
	-11-	--	--	--	
	-12-	--	--	--	
	-13-	--	--	--	
	-14-	--	--	--	
	-15-	--	--	--	
	-16-	--	--	--	
	-17-	--	--	--	
	-18-	--	--	--	
	-19-	--	--	--	
-20-	--	--	--		

These logs should not be used separately from the original report.

APPENDIX D – PHOTOGRAPHIC DOCUMENTATION

Site Photographs



1. View of release point.



2. Overview of right-of-way where spill tracked.



3. Close-up view of spill path.



4. View of new pipeline construction in spill path.



5. View of spill tracking into new pipeline ditch.



6. View of extent of spill path.



Site Photographs



7. Overview of sampling activities.



8. Typical view of boring advancement.



9. View of Geoprobe advancing a soil boring along right of way.



10. View of advanced boring.



11. Close-up view of soil boring techniques.



APPENDIX E – LABORATORY ANALYTICAL REPORTS



Certificate of Analysis Summary 677486

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Wed 11.11.2020 09:30
Report Date: 11.13.2020 13:25
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677486-001	677486-004	677486-008	677486-013	677486-017	677486-021
	<i>Field Id:</i>	SS-01 0-2'	SS-02 0-2'	SS-03 0-2'	SS-04 0-2'	SS-05 0-2'	SS-06 0-2'
	<i>Depth:</i>	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.10.2020 10:21	11.10.2020 10:34	11.10.2020 10:50	11.10.2020 11:07	11.10.2020 11:29	11.10.2020 11:39
BTEX by EPA 8021B	<i>Extracted:</i>	11.11.2020 14:32	11.11.2020 14:32	11.11.2020 14:32	11.11.2020 14:32	11.11.2020 14:32	11.11.2020 14:32
	<i>Analyzed:</i>	11.11.2020 17:54	11.11.2020 18:16	11.11.2020 19:36	11.11.2020 19:58	11.11.2020 20:20	11.11.2020 20:43
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200
Toluene		<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200
Ethylbenzene		<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200
m,p-Xylenes		<0.00402 0.00402	<0.00396 0.00396	<0.00396 0.00396	<0.00402 0.00402	<0.00396 0.00396	<0.00399 0.00399
o-Xylene		<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200
Total Xylenes		<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200
Total BTEX		<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	*** ** **	*** ** **	*** ** **	*** ** **	*** ** **	*** ** **
	<i>Analyzed:</i>	11.11.2020 17:08	11.11.2020 17:24	11.11.2020 17:29	11.11.2020 17:35	11.11.2020 17:40	11.11.2020 17:46
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<10.1 10.1	44.8 10.0	3140 50.2	12.2 10.1	22.4 9.96	5870 101
TPH by SW8015 Mod	<i>Extracted:</i>	11.11.2020 12:00	11.11.2020 12:00	11.11.2020 12:00	11.11.2020 12:00	11.11.2020 12:00	11.11.2020 12:00
	<i>Analyzed:</i>	11.11.2020 15:50	11.11.2020 16:51	11.11.2020 17:11	11.11.2020 17:32	11.11.2020 17:52	11.11.2020 18:13
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1	<50.2 50.2	<50.1 50.1	<50.0 50.0	<50.2 50.2	<49.9 49.9
Diesel Range Organics (DRO)		<50.1 50.1	<50.2 50.2	<50.1 50.1	<50.0 50.0	<50.2 50.2	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1	<50.2 50.2	<50.1 50.1	<50.0 50.0	<50.2 50.2	<49.9 49.9
Total TPH		<50.1 50.1	<50.2 50.2	<50.1 50.1	<50.0 50.0	<50.2 50.2	<49.9 49.9

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677486

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Wed 11.11.2020 09:30
Report Date: 11.13.2020 13:25
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677486-025	677486-029	677486-033	677486-037	677486-041	677486-043
	<i>Field Id:</i>	SS-07 0-2'	SS-08 0-2'	SS-09 0-2'	SS-10 0-2'	SS-11 0-2'	SS-12 0-2'
	<i>Depth:</i>	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.10.2020 11:46	11.10.2020 11:50	11.10.2020 12:06	11.10.2020 12:18	11.10.2020 12:50	11.10.2020 13:02
BTEX by EPA 8021B	<i>Extracted:</i>	11.11.2020 14:32	11.11.2020 14:32	11.11.2020 14:32	11.11.2020 14:32	11.11.2020 14:32	11.11.2020 14:32
	<i>Analyzed:</i>	11.11.2020 21:05	11.11.2020 21:28	11.11.2020 21:50	11.11.2020 22:12	11.11.2020 22:35	11.11.2020 22:57
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00204 0.00204	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00204 0.00204	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00204 0.00204	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00408 0.00408	<0.00402 0.00402	<0.00400 0.00400	<0.00402 0.00402	<0.00401 0.00401	<0.00401 0.00401
o-Xylene		<0.00204 0.00204	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00204 0.00204	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00204 0.00204	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
	<i>Analyzed:</i>	11.11.2020 18:02	11.11.2020 18:08	11.11.2020 18:13	11.11.2020 18:19	11.11.2020 18:24	11.11.2020 18:41
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		16.7 10.1	17.9 10.1	18.9 10.1	739 9.98	<9.98 9.98	7740 101
TPH by SW8015 Mod	<i>Extracted:</i>	11.11.2020 12:00	11.11.2020 12:00	11.11.2020 12:00	11.11.2020 12:00	11.11.2020 12:00	11.11.2020 12:00
	<i>Analyzed:</i>	11.11.2020 18:33	11.11.2020 18:53	11.11.2020 19:12	11.11.2020 19:32	11.11.2020 20:12	11.11.2020 20:33
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.3 50.3	<49.9 49.9	<49.8 49.8	<49.9 49.9	<50.1 50.1	<49.9 49.9
Diesel Range Organics (DRO)		<50.3 50.3	<49.9 49.9	<49.8 49.8	<49.9 49.9	<50.1 50.1	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.3 50.3	<49.9 49.9	<49.8 49.8	<49.9 49.9	<50.1 50.1	<49.9 49.9
Total TPH		<50.3 50.3	<49.9 49.9	<49.8 49.8	<49.9 49.9	<50.1 50.1	<49.9 49.9

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677486

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Wed 11.11.2020 09:30
Report Date: 11.13.2020 13:25
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677486-048	677486-052	677486-057	677486-062		
	<i>Field Id:</i>	SS-13 0-2'	SS-14 0-2'	SS-15 0-2'	SS-16 0-2'		
	<i>Depth:</i>	0-2 ft	0-2 ft	0-2 ft	0-2 ft		
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	11.10.2020 13:27	11.10.2020 13:42	11.10.2020 14:02	11.10.2020 14:20		
BTEX by EPA 8021B	<i>Extracted:</i>	11.12.2020 09:29	11.12.2020 09:29	11.12.2020 09:29	11.12.2020 09:29		
	<i>Analyzed:</i>	11.12.2020 13:08	11.12.2020 13:30	11.12.2020 13:53	11.12.2020 14:15		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198		
Toluene		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198		
Ethylbenzene		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198		
m,p-Xylenes		<0.00402 0.00402	<0.00399 0.00399	<0.00400 0.00400	<0.00397 0.00397		
o-Xylene		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198		
Total Xylenes		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198		
Total BTEX		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198		
Chloride by EPA 300	<i>Extracted:</i>	* * * * *	* * * * *	* * * * *	* * * * *		
	<i>Analyzed:</i>	11.11.2020 18:46	11.11.2020 19:03	11.11.2020 19:08	11.11.2020 19:13		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		16.2 10.0	8690 200	178 10.0	11000 201		
TPH by SW8015 Mod	<i>Extracted:</i>	11.11.2020 12:00	11.11.2020 12:00	11.11.2020 12:00	11.11.2020 12:00		
	<i>Analyzed:</i>	11.11.2020 20:53	11.11.2020 21:13	11.11.2020 21:33	11.11.2020 21:53		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<49.9 49.9	<50.1 50.1	<49.9 49.9		
Diesel Range Organics (DRO)		<50.2 50.2	<49.9 49.9	<50.1 50.1	<49.9 49.9		
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	<49.9 49.9	<50.1 50.1	<49.9 49.9		
Total TPH		<50.2 50.2	<49.9 49.9	<50.1 50.1	<49.9 49.9		

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Analytical Report 677486

for

KJ Environmental & Civil Engineering

Project Manager: Travis Reddick

OWL 100520 D

11.13.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



11.13.2020

Project Manager: **Travis Reddick**
KJ Environmental & Civil Engineering
500 Moseley Rd
Aubrey, TX 76227

Reference: Eurofins Xenco, LLC Report No(s): **677486**
OWL 100520 D
Project Address: Lea County, New Mexico

Travis Reddick:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 677486. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 677486 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 677486

KJ Environmental & Civil Engineering, Aubrey, TX

OWL 100520 D

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-01 0-2'	S	11.10.2020 10:21	0 - 2 ft	677486-001
SS-02 0-2'	S	11.10.2020 10:34	0 - 2 ft	677486-004
SS-03 0-2'	S	11.10.2020 10:50	0 - 2 ft	677486-008
SS-04 0-2'	S	11.10.2020 11:07	0 - 2 ft	677486-013
SS-05 0-2'	S	11.10.2020 11:29	0 - 2 ft	677486-017
SS-06 0-2'	S	11.10.2020 11:39	0 - 2 ft	677486-021
SS-07 0-2'	S	11.10.2020 11:46	0 - 2 ft	677486-025
SS-08 0-2'	S	11.10.2020 11:50	0 - 2 ft	677486-029
SS-09 0-2'	S	11.10.2020 12:06	0 - 2 ft	677486-033
SS-10 0-2'	S	11.10.2020 12:18	0 - 2 ft	677486-037
SS-11 0-2'	S	11.10.2020 12:50	0 - 2 ft	677486-041
SS-12 0-2'	S	11.10.2020 13:02	0 - 2 ft	677486-043
SS-13 0-2'	S	11.10.2020 13:27	0 - 2 ft	677486-048
SS-14 0-2'	S	11.10.2020 13:42	0 - 2 ft	677486-052
SS-15 0-2'	S	11.10.2020 14:02	0 - 2 ft	677486-057
SS-16 0-2'	S	11.10.2020 14:20	0 - 2 ft	677486-062
SS-01 2-4'	S	11.10.2020 10:23	2 - 4 ft	Not Analyzed
SS-01 4-6'	S	11.10.2020 10:25	4 - 6 ft	Not Analyzed
SS-02 2-4'	S	11.10.2020 10:36	2 - 4 ft	Not Analyzed
SS-02 4-6'	S	11.10.2020 10:38	4 - 6 ft	Not Analyzed
SS-02 6-8'	S	11.10.2020 10:40	6 - 8 ft	Not Analyzed
SS-03 2-4'	S	11.10.2020 10:52	2 - 4 ft	Not Analyzed
SS-03 4-6'	S	11.10.2020 10:54	4 - 6 ft	Not Analyzed
SS-03 6-8'	S	11.10.2020 10:58	6 - 8 ft	Not Analyzed
SS-03 8-9'	S	11.10.2020 10:58	8 - 9 ft	Not Analyzed
SS-04 2-4'	S	11.10.2020 11:09	2 - 4 ft	Not Analyzed
SS-04 4-6'	S	11.10.2020 11:11	4 - 6 ft	Not Analyzed
SS-04 6-8'	S	11.10.2020 11:13	6 - 8 ft	Not Analyzed
SS-05 2-4'	S	11.10.2020 11:31	2 - 4 ft	Not Analyzed
SS-05 4-6'	S	11.10.2020 11:33	4 - 6 ft	Not Analyzed
SS-05 6-7'	S	11.10.2020 11:35	6 - 7 ft	Not Analyzed
SS-06 2-4'	S	11.10.2020 11:41	2 - 4 ft	Not Analyzed
SS-06 4-6'	S	11.10.2020 11:43	4 - 6 ft	Not Analyzed
SS-06 6-7'	S	11.10.2020 11:45	6 - 7 ft	Not Analyzed
SS-07 2-4'	S	11.10.2020 11:48	2 - 4 ft	Not Analyzed
SS-07 4-6'	S	11.10.2020 11:50	4 - 6 ft	Not Analyzed
SS-07 6-7'	S	11.10.2020 11:52	6 - 7 ft	Not Analyzed
SS-08 2-4'	S	11.10.2020 11:52	2 - 4 ft	Not Analyzed
SS-08 4-6'	S	11.10.2020 11:54	4 - 6 ft	Not Analyzed
SS-08 6-7'	S	11.10.2020 11:56	6 - 7 ft	Not Analyzed
SS-09 2-4'	S	11.10.2020 12:08	2 - 4 ft	Not Analyzed
SS-09 4-6'	S	11.10.2020 12:10	4 - 6 ft	Not Analyzed
SS-09 6-8'	S	11.10.2020 12:12	6 - 7 ft	Not Analyzed



Sample Cross Reference 677486

KJ Environmental & Civil Engineering, Aubrey, TX

OWL 100520 D

SS-10 2-4'	S	11.10.2020 12:20	2 - 4 ft	Not Analyzed
SS-10 4-6'	S	11.10.2020 12:22	4 - 6 ft	Not Analyzed
SS-10 6-7'	S	11.10.2020 12:24	6 - 7 ft	Not Analyzed
SS-11 2-4'	S	11.10.2020 12:53	2 - 4 ft	Not Analyzed
SS-12 2-4'	S	11.10.2020 13:04	2 - 4 ft	Not Analyzed
SS-12 4-6'	S	11.10.2020 13:06	4 - 6 ft	Not Analyzed
SS-12 6-8'	S	11.10.2020 13:08	6 - 8 ft	Not Analyzed
SS-12 8-9'	S	11.10.2020 13:10	8 - 9 ft	Not Analyzed
SS-13 2-4'	S	11.10.2020 13:29	2 - 4 ft	Not Analyzed
SS-13 4-6'	S	11.10.2020 13:31	4 - 6 ft	Not Analyzed
SS-13 6-7'	S	11.10.2020 13:33	6 - 7 ft	Not Analyzed
SS-14 2-4'	S	11.10.2020 13:44	2 - 4 ft	Not Analyzed
SS-14 4-6'	S	11.10.2020 13:46	4 - 6 ft	Not Analyzed
SS-14 6-8'	S	11.10.2020 13:48	6 - 8 ft	Not Analyzed
SS-14 8-9'	S	11.10.2020 13:50	8 - 9 ft	Not Analyzed
SS-15 2-4'	S	11.10.2020 14:04	2 - 4 ft	Not Analyzed
SS-15 4-6'	S	11.10.2020 14:06	4 - 6 ft	Not Analyzed
SS-15 6-8'	S	11.10.2020 14:08	6 - 8 ft	Not Analyzed
SS-15 8-10'	S	11.10.2020 14:10	8 - 10 ft	Not Analyzed
SS-16 2-4'	S	11.10.2020 14:22	2 - 4 ft	Not Analyzed
SS-16 4-6'	S	11.10.2020 14:24	4 - 6 ft	Not Analyzed
SS-16 6-8'	S	11.10.2020 14:26	6 - 8 ft	Not Analyzed



CASE NARRATIVE

Client Name: KJ Environmental & Civil Engineering

Project Name: OWL 100520 D

Project ID:
Work Order Number(s): 677486

Report Date: 11.13.2020
Date Received: 11.11.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-01 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-001 Date Collected: 11.10.2020 10:21 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.1	10.1	mg/kg	11.11.2020 17:08	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.11.2020 15:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.11.2020 15:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.11.2020 15:50	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.11.2020 15:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	11.11.2020 15:50	
o-Terphenyl	84-15-1	116	%	70-135	11.11.2020 15:50	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-01 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-001 Date Collected: 11.10.2020 10:21 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.11.2020 17:54	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.11.2020 17:54	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.11.2020 17:54	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.11.2020 17:54	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.11.2020 17:54	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.11.2020 17:54	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.11.2020 17:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.11.2020 17:54	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.11.2020 17:54	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-02 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-004 Date Collected: 11.10.2020 10:34 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	44.8	10.0	mg/kg	11.11.2020 17:24		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.11.2020 16:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.11.2020 16:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.11.2020 16:51	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.11.2020 16:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	11.11.2020 16:51	
o-Terphenyl	84-15-1	94	%	70-135	11.11.2020 16:51	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-02 0-2'	Matrix: Soil	Date Received: 11.11.2020 09:30
Lab Sample Id: 677486-004	Date Collected: 11.10.2020 10:34	Sample Depth: 0 - 2 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		
Analyst: MAB	Date Prep: 11.11.2020 14:32	% Moisture:
Seq Number: 3142038		Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.11.2020 18:16	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.11.2020 18:16	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.11.2020 18:16	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	11.11.2020 18:16	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.11.2020 18:16	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.11.2020 18:16	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.11.2020 18:16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.11.2020 18:16		
4-Bromofluorobenzene	460-00-4	115	%	70-130	11.11.2020 18:16		



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-03 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-008 Date Collected: 11.10.2020 10:50 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3140	50.2	mg/kg	11.11.2020 17:29		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.11.2020 17:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.11.2020 17:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.11.2020 17:11	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.11.2020 17:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	11.11.2020 17:11	
o-Terphenyl	84-15-1	106	%	70-135	11.11.2020 17:11	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-03 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-008 Date Collected: 11.10.2020 10:50 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.11.2020 19:36	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.11.2020 19:36	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.11.2020 19:36	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	11.11.2020 19:36	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.11.2020 19:36	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.11.2020 19:36	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.11.2020 19:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.11.2020 19:36	
4-Bromofluorobenzene	460-00-4	116	%	70-130	11.11.2020 19:36	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-04 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-013 Date Collected: 11.10.2020 11:07 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.2	10.1	mg/kg	11.11.2020 17:35		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.11.2020 17:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.11.2020 17:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.11.2020 17:32	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.11.2020 17:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-135	11.11.2020 17:32	
o-Terphenyl	84-15-1	96	%	70-135	11.11.2020 17:32	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-04 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-013 Date Collected: 11.10.2020 11:07 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.11.2020 19:58	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.11.2020 19:58	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.11.2020 19:58	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.11.2020 19:58	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.11.2020 19:58	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.11.2020 19:58	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.11.2020 19:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	11.11.2020 19:58		
1,4-Difluorobenzene	540-36-3	100	%	70-130	11.11.2020 19:58		



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-05 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-017 Date Collected: 11.10.2020 11:29 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22.4	9.96	mg/kg	11.11.2020 17:40		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.11.2020 17:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.11.2020 17:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.11.2020 17:52	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.11.2020 17:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	11.11.2020 17:52	
o-Terphenyl	84-15-1	104	%	70-135	11.11.2020 17:52	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-05 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-017 Date Collected: 11.10.2020 11:29 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.11.2020 20:20	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.11.2020 20:20	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.11.2020 20:20	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	11.11.2020 20:20	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.11.2020 20:20	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.11.2020 20:20	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.11.2020 20:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.11.2020 20:20	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.11.2020 20:20	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-06 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-021 Date Collected: 11.10.2020 11:39 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5870	101	mg/kg	11.11.2020 17:46		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.11.2020 18:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.11.2020 18:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.11.2020 18:13	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.11.2020 18:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	11.11.2020 18:13	
o-Terphenyl	84-15-1	118	%	70-135	11.11.2020 18:13	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-06 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-021 Date Collected: 11.10.2020 11:39 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.11.2020 20:43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.11.2020 20:43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.11.2020 20:43	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.11.2020 20:43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.11.2020 20:43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.11.2020 20:43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.11.2020 20:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.11.2020 20:43	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.11.2020 20:43	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-07 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-025 Date Collected: 11.10.2020 11:46 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.7	10.1	mg/kg	11.11.2020 18:02		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.11.2020 18:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.11.2020 18:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.11.2020 18:33	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.11.2020 18:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	11.11.2020 18:33	
o-Terphenyl	84-15-1	112	%	70-135	11.11.2020 18:33	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-07 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-025 Date Collected: 11.10.2020 11:46 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00204	0.00204	mg/kg	11.11.2020 21:05	U	1
Toluene	108-88-3	<0.00204	0.00204	mg/kg	11.11.2020 21:05	U	1
Ethylbenzene	100-41-4	<0.00204	0.00204	mg/kg	11.11.2020 21:05	U	1
m,p-Xylenes	179601-23-1	<0.00408	0.00408	mg/kg	11.11.2020 21:05	U	1
o-Xylene	95-47-6	<0.00204	0.00204	mg/kg	11.11.2020 21:05	U	1
Total Xylenes	1330-20-7	<0.00204	0.00204	mg/kg	11.11.2020 21:05	U	1
Total BTEX		<0.00204	0.00204	mg/kg	11.11.2020 21:05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.11.2020 21:05		
4-Bromofluorobenzene	460-00-4	116	%	70-130	11.11.2020 21:05		



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-08 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-029 Date Collected: 11.10.2020 11:50 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17.9	10.1	mg/kg	11.11.2020 18:08		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.11.2020 18:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.11.2020 18:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.11.2020 18:53	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.11.2020 18:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	11.11.2020 18:53	
o-Terphenyl	84-15-1	104	%	70-135	11.11.2020 18:53	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-08 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-029 Date Collected: 11.10.2020 11:50 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.11.2020 21:28	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.11.2020 21:28	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.11.2020 21:28	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.11.2020 21:28	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.11.2020 21:28	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.11.2020 21:28	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.11.2020 21:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.11.2020 21:28	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.11.2020 21:28	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-09 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-033 Date Collected: 11.10.2020 12:06 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.9	10.1	mg/kg	11.11.2020 18:13		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.11.2020 19:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.11.2020 19:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.11.2020 19:12	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.11.2020 19:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	11.11.2020 19:12	
o-Terphenyl	84-15-1	114	%	70-135	11.11.2020 19:12	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-09 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-033 Date Collected: 11.10.2020 12:06 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.11.2020 21:50	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.11.2020 21:50	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.11.2020 21:50	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	11.11.2020 21:50	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.11.2020 21:50	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.11.2020 21:50	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.11.2020 21:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.11.2020 21:50	
4-Bromofluorobenzene	460-00-4	120	%	70-130	11.11.2020 21:50	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-10 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-037 Date Collected: 11.10.2020 12:18 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	739	9.98	mg/kg	11.11.2020 18:19		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.11.2020 19:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.11.2020 19:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.11.2020 19:32	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.11.2020 19:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	11.11.2020 19:32	
o-Terphenyl	84-15-1	108	%	70-135	11.11.2020 19:32	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-10 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-037 Date Collected: 11.10.2020 12:18 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.11.2020 22:12	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.11.2020 22:12	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.11.2020 22:12	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.11.2020 22:12	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.11.2020 22:12	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.11.2020 22:12	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.11.2020 22:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	120	%	70-130	11.11.2020 22:12		
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.11.2020 22:12		



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-11 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-041 Date Collected: 11.10.2020 12:50 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.98	9.98	mg/kg	11.11.2020 18:24	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.11.2020 20:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.11.2020 20:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.11.2020 20:12	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.11.2020 20:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	11.11.2020 20:12	
o-Terphenyl	84-15-1	112	%	70-135	11.11.2020 20:12	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-11 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-041 Date Collected: 11.10.2020 12:50 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.11.2020 22:35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.11.2020 22:35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.11.2020 22:35	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.11.2020 22:35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.11.2020 22:35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.11.2020 22:35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.11.2020 22:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	11.11.2020 22:35	
4-Bromofluorobenzene	460-00-4	115	%	70-130	11.11.2020 22:35	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-12 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-043 Date Collected: 11.10.2020 13:02 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7740	101	mg/kg	11.11.2020 18:41		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.11.2020 20:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.11.2020 20:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.11.2020 20:33	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.11.2020 20:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	11.11.2020 20:33	
o-Terphenyl	84-15-1	102	%	70-135	11.11.2020 20:33	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-12 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-043 Date Collected: 11.10.2020 13:02 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.11.2020 22:57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.11.2020 22:57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.11.2020 22:57	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.11.2020 22:57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.11.2020 22:57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.11.2020 22:57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.11.2020 22:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	11.11.2020 22:57	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.11.2020 22:57	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-13 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-048 Date Collected: 11.10.2020 13:27 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.2	10.0	mg/kg	11.11.2020 18:46		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.11.2020 20:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.11.2020 20:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.11.2020 20:53	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.11.2020 20:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	11.11.2020 20:53	
o-Terphenyl	84-15-1	118	%	70-135	11.11.2020 20:53	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-13 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-048 Date Collected: 11.10.2020 13:27 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 09:29 % Moisture:
 Seq Number: 3142179 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.12.2020 13:08	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.12.2020 13:08	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.12.2020 13:08	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.12.2020 13:08	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.12.2020 13:08	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.12.2020 13:08	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.12.2020 13:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	121	%	70-130	11.12.2020 13:08	
1,4-Difluorobenzene	540-36-3	109	%	70-130	11.12.2020 13:08	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-14 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-052 Date Collected: 11.10.2020 13:42 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8690	200	mg/kg	11.11.2020 19:03		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.11.2020 21:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.11.2020 21:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.11.2020 21:13	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.11.2020 21:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	11.11.2020 21:13	
o-Terphenyl	84-15-1	98	%	70-135	11.11.2020 21:13	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-14 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-052 Date Collected: 11.10.2020 13:42 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 09:29 % Moisture:
 Seq Number: 3142179 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.12.2020 13:30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.12.2020 13:30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.12.2020 13:30	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.12.2020 13:30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.12.2020 13:30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.12.2020 13:30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.12.2020 13:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	11.12.2020 13:30	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.12.2020 13:30	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-15 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-057 Date Collected: 11.10.2020 14:02 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	178	10.0	mg/kg	11.11.2020 19:08		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.11.2020 21:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.11.2020 21:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.11.2020 21:33	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.11.2020 21:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	11.11.2020 21:33	
o-Terphenyl	84-15-1	110	%	70-135	11.11.2020 21:33	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-15 0-2'	Matrix: Soil	Date Received: 11.11.2020 09:30
Lab Sample Id: 677486-057	Date Collected: 11.10.2020 14:02	Sample Depth: 0 - 2 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.12.2020 09:29	Basis: Wet Weight
Seq Number: 3142179		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.12.2020 13:53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.12.2020 13:53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.12.2020 13:53	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	11.12.2020 13:53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.12.2020 13:53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.12.2020 13:53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.12.2020 13:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.12.2020 13:53		
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.12.2020 13:53		



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-16 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-062 Date Collected: 11.10.2020 14:20 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11000	201	mg/kg	11.11.2020 19:13		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.11.2020 21:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.11.2020 21:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.11.2020 21:53	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.11.2020 21:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-135	11.11.2020 21:53	
o-Terphenyl	84-15-1	114	%	70-135	11.11.2020 21:53	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-16 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-062 Date Collected: 11.10.2020 14:20 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 09:29 % Moisture:
 Seq Number: 3142179 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.12.2020 14:15	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.12.2020 14:15	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.12.2020 14:15	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.12.2020 14:15	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.12.2020 14:15	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.12.2020 14:15	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.12.2020 14:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.12.2020 14:15	
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.12.2020 14:15	

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



KJ Environmental & Civil Engineering
 OWL 100520 D

Analytical Method: Chloride by EPA 300

Seq Number: 3142041
 MB Sample Id: 7714965-1-BLK

Matrix: Solid
 LCS Sample Id: 7714965-1-BKS

Prep Method: E300P
 Date Prep: 11.10.2020
 LCSD Sample Id: 7714965-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	258	103	252	101	90-110	2	20	mg/kg	11.11.2020 16:57	

Analytical Method: Chloride by EPA 300

Seq Number: 3142041
 Parent Sample Id: 677486-001

Matrix: Soil
 MS Sample Id: 677486-001 S

Prep Method: E300P
 Date Prep: 11.10.2020
 MSD Sample Id: 677486-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.1	202	199	99	202	100	90-110	1	20	mg/kg	11.11.2020 17:13	

Analytical Method: Chloride by EPA 300

Seq Number: 3142041
 Parent Sample Id: 677486-041

Matrix: Soil
 MS Sample Id: 677486-041 S

Prep Method: E300P
 Date Prep: 11.10.2020
 MSD Sample Id: 677486-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	199	100	200	100	90-110	1	20	mg/kg	11.11.2020 18:30	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142043
 MB Sample Id: 7714966-1-BLK

Matrix: Solid
 LCS Sample Id: 7714966-1-BKS

Prep Method: SW8015P
 Date Prep: 11.11.2020
 LCSD Sample Id: 7714966-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1030	103	944	94	70-135	9	35	mg/kg	11.11.2020 15:09	
Diesel Range Organics (DRO)	<50.0	1000	1140	114	1050	105	70-135	8	35	mg/kg	11.11.2020 15:09	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		125		131		70-135	%	11.11.2020 15:09
o-Terphenyl	101		107		102		70-135	%	11.11.2020 15:09

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142043

Matrix: Solid
 MB Sample Id: 7714966-1-BLK

Prep Method: SW8015P
 Date Prep: 11.11.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.11.2020 14:49	

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

[D] = 100*(C-A) / B
 RPD = 200* | (C-E) / (C+E) |
 [D] = 100 * (C) / [B]
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
 OWL 100520 D

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142043
 Parent Sample Id: 677486-001

Matrix: Soil
 MS Sample Id: 677486-001 S

Prep Method: SW8015P
 Date Prep: 11.11.2020
 MSD Sample Id: 677486-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	1020	102	1030	103	70-135	1	35	mg/kg	11.11.2020 16:10	
Diesel Range Organics (DRO)	<49.9	998	1120	112	1030	103	70-135	8	35	mg/kg	11.11.2020 16:10	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	121		114		70-135	%	11.11.2020 16:10
o-Terphenyl	108		110		70-135	%	11.11.2020 16:10

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142038
 MB Sample Id: 7714969-1-BLK

Matrix: Solid
 LCS Sample Id: 7714969-1-BKS

Prep Method: SW5035A
 Date Prep: 11.11.2020
 LCSD Sample Id: 7714969-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0975	98	0.0933	93	70-130	4	35	mg/kg	11.11.2020 12:50	
Toluene	<0.00200	0.100	0.0927	93	0.0878	88	70-130	5	35	mg/kg	11.11.2020 12:50	
Ethylbenzene	<0.00200	0.100	0.0954	95	0.0926	93	71-129	3	35	mg/kg	11.11.2020 12:50	
m,p-Xylenes	<0.00400	0.200	0.196	98	0.187	94	70-135	5	35	mg/kg	11.11.2020 12:50	
o-Xylene	<0.00200	0.100	0.0967	97	0.0938	94	71-133	3	35	mg/kg	11.11.2020 12:50	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		99		100		70-130	%	11.11.2020 12:50
4-Bromofluorobenzene	112		108		107		70-130	%	11.11.2020 12:50

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142179
 MB Sample Id: 7715042-1-BLK

Matrix: Solid
 LCS Sample Id: 7715042-1-BKS

Prep Method: SW5035A
 Date Prep: 11.12.2020
 LCSD Sample Id: 7715042-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0925	93	0.0926	93	70-130	0	35	mg/kg	11.12.2020 11:03	
Toluene	<0.00200	0.100	0.0887	89	0.0899	90	70-130	1	35	mg/kg	11.12.2020 11:03	
Ethylbenzene	<0.00200	0.100	0.0919	92	0.0929	93	71-129	1	35	mg/kg	11.12.2020 11:03	
m,p-Xylenes	<0.00400	0.200	0.185	93	0.189	95	70-135	2	35	mg/kg	11.12.2020 11:03	
o-Xylene	<0.00200	0.100	0.0919	92	0.0940	94	71-133	2	35	mg/kg	11.12.2020 11:03	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		98		99		70-130	%	11.12.2020 11:03
4-Bromofluorobenzene	117		104		107		70-130	%	11.12.2020 11:03

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

[D] = 100*(C-A) / B
 RPD = 200* |(C-E) / (C+E)|
 [D] = 100 * (C) / [B]
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
 OWL 100520 D

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142038

Parent Sample Id: 677445-013

Matrix: Soil

MS Sample Id: 677445-013 S

Prep Method: SW5035A

Date Prep: 11.11.2020

MSD Sample Id: 677445-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.107	107	0.0799	80	70-130	29	35	mg/kg	11.11.2020 13:34	
Toluene	<0.00200	0.0998	0.103	103	0.0769	77	70-130	29	35	mg/kg	11.11.2020 13:34	
Ethylbenzene	<0.00200	0.0998	0.106	106	0.0778	78	71-129	31	35	mg/kg	11.11.2020 13:34	
m,p-Xylenes	<0.00399	0.200	0.218	109	0.159	80	70-135	31	35	mg/kg	11.11.2020 13:34	
o-Xylene	<0.00200	0.0998	0.109	109	0.0778	78	71-133	33	35	mg/kg	11.11.2020 13:34	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		99		70-130	%	11.11.2020 13:34
4-Bromofluorobenzene	108		112		70-130	%	11.11.2020 13:34

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142179

Parent Sample Id: 677486-048

Matrix: Soil

MS Sample Id: 677486-048 S

Prep Method: SW5035A

Date Prep: 11.12.2020

MSD Sample Id: 677486-048 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.104	103	0.0889	89	70-130	16	35	mg/kg	11.12.2020 11:48	
Toluene	<0.00201	0.101	0.0971	96	0.0819	82	70-130	17	35	mg/kg	11.12.2020 11:48	
Ethylbenzene	<0.00201	0.101	0.0989	98	0.0829	83	71-129	18	35	mg/kg	11.12.2020 11:48	
m,p-Xylenes	<0.00402	0.201	0.201	100	0.167	84	70-135	18	35	mg/kg	11.12.2020 11:48	
o-Xylene	<0.00201	0.101	0.0993	98	0.0794	79	71-133	22	35	mg/kg	11.12.2020 11:48	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		99		70-130	%	11.12.2020 11:48
4-Bromofluorobenzene	109		110		70-130	%	11.12.2020 11:48

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Setting the Standard since 1990

Stafford, Texas (281-240-4200)

Dallas Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

CHAIN OF CUSTODY

Page 1 of 7

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)

Tampa, Florida (813-620-2000)

Xenco Quote #

Xenco Job #

1077486

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes									
Company Name / Branch: KJE Environmental & Civil Engineering		Project Name/Number: QWL1028169, OWL 1005200		Project Location: Lea Cavity		Invoice To: Offfield Water Logistics									
Company Address: 500 Mosely Road, Cross Roads, Texas 76227		Project Location: Lea Cavity		Invoice To: Offfield Water Logistics		Phone No: (940)357-0805									
Email: teddick@kjen.com		Project Location: Lea Cavity		Invoice To: Offfield Water Logistics		Project Contact: Ted Dick									
Project Contact: Ted Dick		Project Location: Lea Cavity		Invoice To: Offfield Water Logistics		Project Contact: Ted Dick									
Contract No: 4		Project Location: Lea Cavity		Invoice To: Offfield Water Logistics		Project Contact: Ted Dick									
Contract No: 4		Project Location: Lea Cavity		Invoice To: Offfield Water Logistics		Project Contact: Ted Dick									
Contract No: 4		Project Location: Lea Cavity		Invoice To: Offfield Water Logistics		Project Contact: Ted Dick									
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Notes
1	SS-01-0-2'	0-2'	11/10/20	1021	CS	1									
2	SS-01-2-4'	2-4'	11/10/20	1023											
3	SS-01-2-6'	4-6'	11/10/20	1025											
4	SS-02-0-2'	0-2'	11/10/20	1034											
5	SS-02-2-4'	2-4'	11/10/20	1036											
6	SS-02-4-6'	4-6'	11/10/20	1038											
7	SS-02-6-8'	6-8'	11/10/20	1040											
8	SS-03-0-2'	0-2'	11/10/20	1050											
9	SS-03-2-4'	2-4'	11/10/20	1052											
10	SS-03-4-6'	4-6'	11/10/20	1054											
Turnaround Time (Business days)															
Data Deliverable Information															
<input type="checkbox"/> Same Day TAT		<input type="checkbox"/> 5 Day TAT		<input type="checkbox"/> Level II Std QC		<input type="checkbox"/> Level IV (Full Data Plg raw data)									
<input type="checkbox"/> Next Day EMERGENCY		<input type="checkbox"/> 7 Day TAT		<input type="checkbox"/> Level III Std QC+ Forms		<input type="checkbox"/> TRRP Level IV									
<input type="checkbox"/> 2 Day EMERGENCY		<input type="checkbox"/> Contract TAT		<input type="checkbox"/> Level 3 (CLP Forms)		<input type="checkbox"/> UST / RG-411									
<input checked="" type="checkbox"/> 3 Day EMERGENCY				<input type="checkbox"/> TRRP Checklist											
TAT Starts Day received by Lab, if received by 5:00 pm															
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY															
Relinquished by Sampler:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:	
1		11/11 0930		1		11/11 0930		2		11/11 0930		3		11/11 0930	
3				3				4				4			
Relinquished by:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:	
5				5				5				5			
FED-EX / UPS: Tracking #															
On Ice <input checked="" type="checkbox"/> Cooler Temp. Thermo. Corr. Factor															
2.22.0 -0.2															

Analyze 0-2' samples, Hold all deep samples pending 0-2' results. 3 day TAT

Field Comments

S = Soil/Sed/Solid
 GW = Ground Water
 DW = Drinking Water
 P = Product
 SW = Surface water
 SL = Sludge
 OW = Ocean/Sea Water
 W = Wipe
 O = Oil
 WW = Waste Water
 A = Air



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas, Texas (214-902-0300)
 Service Center - San Antonio, Texas (210-509-3334)

CHAIN OF CUSTODY
 Page 2 of 2

www.xenco.com

Odessa, Texas (432-563-1800)
 Norcross, Georgia (770-449-8800)
 Lakeland, Florida (863-646-8526)
 Tampa, Florida (813-620-2000)

677486

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes													
Company Name / Branch: KJE, Environmental & Civil Engineering		Project Name/Number: OW10580 OW10580D		Xenoco Quote #		Xenoco Job #													
Company Address: 500 Moseley Road, Cross Roads, Texas 76227		Project Location: Lea County		Xenoco Quote #		Xenoco Job #													
Email: fred@krie-us.com Phone No: (940)387-0905		Invoice To: Oilfield Water Logistics		Xenoco Quote #		Xenoco Job #													
Project Contact: Travis Reddick		PO Number:		Xenoco Quote #		Xenoco Job #													
Sampler's Name:		Field ID / Point of Collection:		Xenoco Quote #		Xenoco Job #													
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTX	TPH	CHLORIDES	Notes	
1	SS-03	6-8'	1/10/20	1056	SS	1									X	X	X		
2	SS-03	8-9'	1/10/20	1058	SS	1									X	X	X		
3	SS-04	0-2'		1107															
4	SS-04	2-4'		1109															
5	SS-04	4-6'		1111															
6	SS-04	6-8'		1113															
7	SS-05	0-2'		1129															
8	SS-05	2-4'		1131															
9	SS-05	4-6'		1133															
10	SS-05	6-7'		1135															
Turnaround Time (Business days)		Data Deliverable Information		Notes:															
<input type="checkbox"/> Same Day TAT		<input type="checkbox"/> 5 Day TAT		<input type="checkbox"/> Level II Std QC		<input type="checkbox"/> Level IV (Full Data Pkg /raw data)													
<input type="checkbox"/> Next Day EMERGENCY		<input type="checkbox"/> 7 Day TAT		<input type="checkbox"/> Level III Std QC+ Forms		<input type="checkbox"/> TRRP Level IV													
<input type="checkbox"/> 2 Day EMERGENCY		<input type="checkbox"/> Contract TAT		<input type="checkbox"/> Level 3 (CLP Forms)		<input type="checkbox"/> UST / RG -411													
<input checked="" type="checkbox"/> 3 Day EMERGENCY				<input type="checkbox"/> TRRP Checklist															
TAT Starts Day received by Lab, if received by 5:00 pm		SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY		FED-EX / UPS: Tracking #															
Relinquished by Sampler:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Received By:			
1		1/11/20 0930		[Signature]		2		[Signature]		2		[Signature]		2		[Signature]			
Relinquished by:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Received By:			
3				3		4		4		4		4		4		4			
Relinquished by:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Received By:			
5				5		5		5		5		5		5		5			
Relinquished by:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Received By:			
On Ice		Cooler Temp.		Thermo, Corr. Factor															
<input checked="" type="checkbox"/>		2-21.0		-0.2															

Analyze 0-2' samples, HOLD all deeper samples pending 0-2' results. 3 day TAT



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas Texas (214-902-0300)
 Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

CHAIN OF CUSTODY

Page 2 of 2

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (888-646-8525)

Tampa, Florida (813-620-2000)

Xenco Quote #

Xenco Job #

1072486

Client / Reporting Information

Company Name / Branch: KJE Environmental & Civil Engineering
 Company Address: 500 Mosely Road, Cross Roads, Texas 76227
 Phone No: (940)387-0805
 Email: fredrick@kjes.com
 Project Contact: James Fox
 James Fox
 Samplers Name: Travis Reddick

Project Information

Project Name/Number: QWL100520D
 Project Location: Leu County
 Invoice To: Oilfield Water Logistics
 PO Number:

Analytical Information

BTEX 8260 (5035) BTEX 8011
 TPH
 CHLORIDES
 Matrix Codes
 S = Soil/Sed/Solid
 GW = Ground Water
 DW = Drinking Water
 P = Product
 SW = Surface water
 SL = Sludge
 OW = Ocean/Sea Water
 W = Wipe
 O = Oil
 WW = Waste Water
 A = Air

Field ID / Point of Collection

No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCI	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Notes	Field Comments
1	SS-06 0-2'	0-2'	11/01/20	1139	SS	2										
2	SS-06 2-4'	2-4'	11/01/20	1141												
3	SS-06 4-6'	4-6'	11/01/20	1143												
4	SS-06 6-7'	6-7'	11/01/20	1145												
5	SS-07 0-2'	0-2'	11/02/20	1146												
6	SS-07 2-4'	2-4'	11/02/20	1148												
7	SS-07 4-6'	4-6'	11/02/20	1150												
8	SS-07 6-7'	6-7'	11/02/20	1152												
9	SS-08 0-2'	0-2'	11/02/20	1150												
10	SS-08 2-4'	2-4'	11/02/20	1152												

Data Deliverable Information

Turnaround Time (Business days)

<input type="checkbox"/> Same Day TAT	<input type="checkbox"/> 5 Day TAT
<input type="checkbox"/> Next Day EMERGENCY	<input type="checkbox"/> 7 Day TAT
<input type="checkbox"/> 2 Day EMERGENCY	<input type="checkbox"/> Contract TAT
<input checked="" type="checkbox"/> 3 Day EMERGENCY	<input type="checkbox"/> TRRP Checklist

TAT Starts Day received by Lab, if received by 5:00 pm

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by Sampler:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
	1	1	1	2	2	3	3
Date Time:	11/11/20	11/11/20	11/11/20	11/11/20	11/11/20	11/11/20	11/11/20
Date Time:							

Relinquished by:	Date Time:	Relinquished by:	Date Time:	Preserved where applicable	On Ice	Cooler Temp.	Thermo. Corr. Factor
					<input checked="" type="checkbox"/>	2-22-20	-0.2

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously negotiated under a fully executed client contract.



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas Texas (214-902-0300)

CHAIN OF CUSTODY

Page 4 of 7

677486

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)

Xenco Quote #

Xenco Job #

Tampa, Florida (813-620-2000)

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes	
Company Name / Branch: K/E Environmental & Civil Engineering		Project Name/Number: <u>QWL100520D</u>		BTEX 8260 (6035) BTEX 8021		S = Soil/Sed/Solid GW = Ground Water DW = Drinking Water P = Product SW = Surface water SL = Sludge OW = Ocean/Sea Water W = Wipe O = Oil WW = Waste Water A = Air	
Company Address: 500 Mosely Road, Cross Roads, Texas 76227		Project Location: <u>Hpa County</u>		TPH			
Email: <u>fredrick@rie-us.com</u> Phone No: (940)397-0805		Invoice To: <u>Offfield Water Logistics</u>		CHLORIDES			
Project Contact: <u>Travis Reddick</u>		PO Number:					
Sampler's Name: <u>Travis Reddick</u>							

No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCI	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Notes
1	SS-08	4-6'	4-6'	11/10/20	SS	2								X	Analyze 0-2' samples, HOLD ALL
2	SS-08	6-7'		1156										X	
3	SS-09	0-2'		1206										X	
4	SS-09	2-4'		1208										X	
5	SS-09	4-6'		1210										X	
6	SS-09	6-8'		1212										X	
7	SS-10	0-2'		1218										X	
8	SS-10	2-4'		1220										X	
9	SS-10	4-6'		1222										X	
10	SS-10	6-7'		1224										X	

Turnaround Time (Business days)		Data Deliverable Information	
<input type="checkbox"/> Same Day TAT	<input type="checkbox"/> 5 Day TAT	<input type="checkbox"/> Level II Std QC	<input type="checkbox"/> Level IV (Full Data Pkg /raw data)
<input type="checkbox"/> Next Day EMERGENCY	<input type="checkbox"/> 7 Day TAT	<input type="checkbox"/> Level III Std QC+ Forms	<input type="checkbox"/> TRRP Level IV
<input type="checkbox"/> 2 Day EMERGENCY	<input type="checkbox"/> Contract TAT	<input type="checkbox"/> Level 3 (CLP Forms)	<input type="checkbox"/> UST / RG 411
<input checked="" type="checkbox"/> 3 Day EMERGENCY		<input type="checkbox"/> TRRP Checklist	

TAT Starts Day received by Lab, if received by 5:00 pm

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by:	Date Time:	Received By:	Date Time:	Relinquished by:	Date Time:	Received By:	Date Time:	Relinquished by:	Date Time:	Received By:	Date Time:
1	4/11/20	2	4/11/20	3	4/11/20	4	4/11/20	5	4/11/20	6	4/11/20

Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously negotiated under a fully executed client contract.



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas, Texas (214-902-0300)

CHAIN OF CUSTODY

Page 5 of 7

Service Center - San Antonio, Texas (210-509-3344)

www.xenco.com

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (883-646-8526)

Tampa, Florida (813-820-2000)

LOT 27486

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes											
Company Name / Branch: K/E, Environmental & Civil Engineering		Project Name/Number: QWL-102946D OWL100520D		Xenoco Quote #		Xenoco Job #											
Company Address: 500 Moseley Road, Cross Roads, Texas 76227		Project Location: <u>Lea County</u>		Xenoco Quote #		Xenoco Job #											
Email: frreddick@kriens.com Phone No: (940)387-0905		Invoice To: <u>Lea County</u>		Xenoco Quote #		Xenoco Job #											
Project Contact: <u>frreddick@kriens.com</u>		Offfield Water Logistics		Xenoco Quote #		Xenoco Job #											
Lab/Tester Name: <u>Revis Reddick</u>		PO Number:		Xenoco Quote #		Xenoco Job #											
Sampler's Name:		Field ID / Point of Collection:		Xenoco Quote #		Xenoco Job #											
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	TPH	CHLORIDES	Notes
1	SS-11	0-2'	11/10/20	1250	SS	1									X	X	
2	SS-11	2-4'	11/10/20	1253	SS	1									X	X	
3	SS-12	0-2'	11/10/20	1302	SS	1									X	X	
4	SS-12	2-4'	11/10/20	1304	SS	1									X	X	
5	SS-12	4-6'	11/10/20	1306	SS	1									X	X	
6	SS-12	6-8'	11/10/20	1308	SS	1									X	X	
7	SS-13	8-9'	11/10/20	1310	SS	1									X	X	
8	SS-13	0-2'	11/10/20	1327	SS	1									X	X	
9	SS-13	2-4'	11/10/20	1329	SS	1									X	X	
10	SS-13	4-6'	11/10/20	1331	SS	1									X	X	
Turnaround Time (Business days)																	
Data Deliverable Information																	
<input type="checkbox"/> Same Day TAT <input type="checkbox"/> 5 Day TAT <input type="checkbox"/> Level II Std QC <input type="checkbox"/> Level IV (Full Data Pig/raw data) <input type="checkbox"/> Next Day EMERGENCY <input type="checkbox"/> 7 Day TAT <input type="checkbox"/> Level III Std QC+ Forms <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> Contract TAT <input type="checkbox"/> Level 3 (CLP Forms) <input type="checkbox"/> UST / RG -411 <input checked="" type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> TRRP Checklist																	
TAT Starts Day received by Lab, if received by 5:00 pm																	
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																	
Relinquished by Sampler:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Received By:	
1		11/11/20		1		11/11/20		2		11/11/20		3		11/11/20		4	
3		11/11/20		3		11/11/20		4		11/11/20		5		11/11/20		6	
5		11/11/20		5		11/11/20		6		11/11/20		7		11/11/20		8	
FED-EX / UPS: Tracking #																	
On Ice Cooler Temp. Thermo, Corr. Factor																	
X 2.2/2.0 -0.2																	

Analyze 0-2' sample, HOLD all deeper samples pending 0-2' results, 3 day TAT



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas, Texas (214-902-0300)

CHAIN OF CUSTODY

Page 6 of 7

Odessa, Texas (432-563-1800) Lakeland, Florida (863-646-8526)
 Norcross, Georgia (770-449-8800) Tampa, Florida (813-620-2000)

www.xenco.com

Xenco Quote #

Xenco Job #

Xenco Job #

1077486

Client / Reporting Information	Project Information	Analytical Information	Matrix Codes
Company Name / Branch: K/E Environmental & Civil Engineering Company Address: 500 Mosely Road, Cross Roads, Texas 76227 Email: james@kencolaboratories.com Phone No: (940) 397-0805	Project Name/Number: OWE-102949D-OWE1005201D Project Location: Lea Early Invoice To: Offfield Water Logistics PO Number:	Sample Name/Number: OWE-102949D Sample Location: Lea Early Invoice To: Offfield Water Logistics PO Number:	S = Soil/Sed/Solid GW = Ground Water DW = Drinking Water P = Product SW = Surface water SL = Sludge OW = Ocean/Sea Water O = Oil WW = Waste Water A = Air

No.	Field ID / Point of Collection	Sample Depth	Collection Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	TPH	CHLORIDES	Notes	Field Comments
1	SS-13 6-7'	0-2'	11/19/20	1333	SS	1									X	X		
2	SS-14 0-2'	0-2'		1342											X	X		
3	SS-14 2-4'	2-4'		1344											X	X		
4	SS-14 4-6'	4-6'		1346											X	X		
5	SS-14 6-8'	6-8'		1348											X	X		
6	SS-14 8-9'	8-9'		1350											X	X		
7	SS-15 0-2'	0-2'		1402											X	X		
8	SS-15 2-4'	2-4'		1404											X	X		
9	SS-15 4-6'	4-6'		1406											X	X		
10	SS-15 6-8'	6-8'		1408											X	X		

<input type="checkbox"/> Same Day TAT <input type="checkbox"/> 5 Day TAT <input type="checkbox"/> Next Day EMERGENCY <input type="checkbox"/> 7 Day TAT <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> Contract TAT <input checked="" type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> TRRP Checklist		TAT Starts Day received by Lab, if received by 5:00 pm SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY	
Relinquished By: [Signature]	Date Time: 1/11/2021	Received By: [Signature]	Date Time: 1/11/2021
Relinquished By: [Signature]	Date Time: 1/11/2021	Received By: [Signature]	Date Time: 1/11/2021
Relinquished By: [Signature]	Date Time: 1/11/2021	Received By: [Signature]	Date Time: 1/11/2021
Relinquished by: [Signature] Date Time: 1/11/2021		Received by: [Signature] Date Time: 1/11/2021	
Relinquished by: [Signature] Date Time: 1/11/2021		Received by: [Signature] Date Time: 1/11/2021	
Relinquished by: [Signature] Date Time: 1/11/2021		Received by: [Signature] Date Time: 1/11/2021	

Notes: Analyze 0-2' sample, HOLD all deeper sample pending 0-2' results. 3 day TAT

FED-EX / UPS: Tracking #

On Ice Cooler Temp. 2-22-0 Thermo. Corr. Factor -0.2



Setting the Standard since 1990

Stafford, Texas (281-240-4200)

Dallas, Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

CHAIN OF CUSTODY

Page 7 of 7

1077486

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)
Tampa, Florida (813-820-2000)

www.xenco.com

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes									
Company Name / Branch: KJE, Environmental & Civil Engineering		Project Name/Number: OW-102010B OW-100520D		Xenco Quote #		Xenco Job #									
Company Address: 500 Moseley Road, Cross Roads, Texas 76227		Project Location: <i>Leon County</i>		BTEX 8260 (5035) BTEX 8021											
Email: travis@kje.com <i>travis@kje.com</i> Phone No: (940)387-0905		Invoice To: <i>Leon County</i>		TPH											
Project Contact: <i>Travis Reddick</i>		Offfield Water Logistics		CHLORIDES											
James Fox		PO Number:													
Sampler's Name: <i>Travis Reddick</i>															
No.	Field ID / Point of Collection	Sample Depth	Collection Date	Time	Matrix	# of bottles	ICI	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Notes
1	SS-15 8-10'	8-10'	1/10/20	1410	SS	1								X	
2	SS-16 0-2'	0-2'		1420										X	
3	SS-16 2-4'	2-4'		1422										X	
4	SS-16 4-6'	4-6'		1424										X	
5	SS-16 6-8'	6-8'		1426										X	
6	X TRP	X TRP			X TRP									X	
7															
8															
9															
10															
Turnaround Time (Business days)															
Data Deliverable Information															
<input type="checkbox"/> Same Day TAT <input type="checkbox"/> 5 Day TAT <input type="checkbox"/> Level II Std QC <input type="checkbox"/> Level IV (Full Data Pkg / raw data) <input type="checkbox"/> Next Day EMERGENCY <input type="checkbox"/> 7 Day TAT <input type="checkbox"/> Level III Std QC+ Forms <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> Contract TAT <input type="checkbox"/> Level 3 (CLP Forms) <input type="checkbox"/> UST / RG-411 <input checked="" type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> TRRP Checklist															
TAT Starts Day received by Lab, if received by 5:00 pm															
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY															
Relinquished by: <i>[Signature]</i>		Date Time: <i>1/16 09:30</i>		Received By: <i>[Signature]</i>		Date Time: <i>[Blank]</i>		Relinquished By: <i>[Signature]</i>		Date Time: <i>[Blank]</i>		Received By: <i>[Signature]</i>		Date Time: <i>[Blank]</i>	
Relinquished by:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:	
Relinquished by:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:	
5		5		5		5		5		5		5		5	
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, sub-contractors and assigns XENCO's standard terms and conditions of service unless previously negotiated under a fully executed client contract.															

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: KJ Environmental & Civil Engineering

Date/ Time Received: 11.11.2020 09.30.00 AM

Work Order #: 677486

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	2	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	Yes	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	Samples received in bulk containers.
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by: Cloe Clifton
 Cloe Clifton

Date: 11.11.2020

Checklist reviewed by: Jessica Kramer
 Jessica Kramer

Date: 11.12.2020



Certificate of Analysis Summary 677486

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Wed 11.11.2020 09:30
Report Date: 11.25.2020 15:29
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677486-001	677486-004	677486-008	677486-009	677486-010	677486-011
	<i>Field Id:</i>	SS-01 0-2'	SS-02 0-2'	SS-03 0-2'	SS-03 2-4'	SS-03 4-6'	SS-03 6-8'
	<i>Depth:</i>	0-2 ft	0-2 ft	0-2 ft	2-4 ft	4-6 ft	6-8 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.10.2020 10:21	11.10.2020 10:34	11.10.2020 10:50	11.10.2020 10:52	11.10.2020 10:54	11.10.2020 10:58
BTEX by EPA 8021B	<i>Extracted:</i>	11.11.2020 14:32	11.11.2020 14:32	11.11.2020 14:32			
	<i>Analyzed:</i>	11.11.2020 17:54	11.11.2020 18:16	11.11.2020 19:36			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198			
Toluene		<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198			
Ethylbenzene		<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198			
m,p-Xylenes		<0.00402 0.00402	<0.00396 0.00396	<0.00396 0.00396			
o-Xylene		<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198			
Total Xylenes		<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198			
Total BTEX		<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198			
Chloride by EPA 300	<i>Extracted:</i>	* * * * *	* * * * *	* * * * *	11.17.2020 17:01	11.24.2020 16:36	11.24.2020 16:36
	<i>Analyzed:</i>	11.11.2020 17:08	11.11.2020 17:24	11.11.2020 17:29	11.18.2020 11:15	11.24.2020 22:11	11.24.2020 22:27
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<10.1 10.1	44.8 10.0	3140 50.2	9330 200	7910 49.5	4960 50.5
TPH by SW8015 Mod	<i>Extracted:</i>	11.11.2020 12:00	11.11.2020 12:00	11.11.2020 12:00			
	<i>Analyzed:</i>	11.11.2020 15:50	11.11.2020 16:51	11.11.2020 17:11			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1	<50.2 50.2	<50.1 50.1			
Diesel Range Organics (DRO)		<50.1 50.1	<50.2 50.2	<50.1 50.1			
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1	<50.2 50.2	<50.1 50.1			
Total TPH		<50.1 50.1	<50.2 50.2	<50.1 50.1			

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677486

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Wed 11.11.2020 09:30
Report Date: 11.25.2020 15:29
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677486-012	677486-013	677486-017	677486-021	677486-022	677486-024
	<i>Field Id:</i>	SS-03 8-9'	SS-04 0-2'	SS-05 0-2'	SS-06 0-2'	SS-06 2-4'	SS-06 6-7'
	<i>Depth:</i>	8-9 ft	0-2 ft	0-2 ft	0-2 ft	2-4 ft	6-7 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.10.2020 10:58	11.10.2020 11:07	11.10.2020 11:29	11.10.2020 11:39	11.10.2020 11:41	11.10.2020 11:45
BTEX by EPA 8021B	<i>Extracted:</i>		11.11.2020 14:32	11.11.2020 14:32	11.11.2020 14:32		
	<i>Analyzed:</i>		11.11.2020 19:58	11.11.2020 20:20	11.11.2020 20:43		
	<i>Units/RL:</i>		mg/kg RL	mg/kg RL	mg/kg RL		
Benzene			<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200		
Toluene			<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200		
Ethylbenzene			<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200		
m,p-Xylenes			<0.00402 0.00402	<0.00396 0.00396	<0.00399 0.00399		
o-Xylene			<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200		
Total Xylenes			<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200		
Total BTEX			<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200		
Chloride by EPA 300	<i>Extracted:</i>	11.24.2020 16:36	* * * * *	* * * * *	* * * * *	11.24.2020 16:36	11.24.2020 16:36
	<i>Analyzed:</i>	11.24.2020 22:32	11.11.2020 17:35	11.11.2020 17:40	11.11.2020 17:46	11.24.2020 22:37	11.24.2020 22:42
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		6300 50.5	12.2 10.1	22.4 9.96	5870 101	68.6 10.0	17.0 9.98
TPH by SW8015 Mod	<i>Extracted:</i>		11.11.2020 12:00	11.11.2020 12:00	11.11.2020 12:00		
	<i>Analyzed:</i>		11.11.2020 17:32	11.11.2020 17:52	11.11.2020 18:13		
	<i>Units/RL:</i>		mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)			<50.0 50.0	<50.2 50.2	<49.9 49.9		
Diesel Range Organics (DRO)			<50.0 50.0	<50.2 50.2	<49.9 49.9		
Motor Oil Range Hydrocarbons (MRO)			<50.0 50.0	<50.2 50.2	<49.9 49.9		
Total TPH			<50.0 50.0	<50.2 50.2	<49.9 49.9		

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677486

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Wed 11.11.2020 09:30
Report Date: 11.25.2020 15:29
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677486-025	677486-029	677486-033	677486-037	677486-038	677486-039
	<i>Field Id:</i>	SS-07 0-2'	SS-08 0-2'	SS-09 0-2'	SS-10 0-2'	SS-10 2-4'	SS-10 4-6'
	<i>Depth:</i>	0-2 ft	0-2 ft	0-2 ft	0-2 ft	2-4 ft	4-6 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.10.2020 11:46	11.10.2020 11:50	11.10.2020 12:06	11.10.2020 12:18	11.10.2020 12:20	11.10.2020 12:22
BTEX by EPA 8021B	<i>Extracted:</i>	11.11.2020 14:32	11.11.2020 14:32	11.11.2020 14:32	11.11.2020 14:32		
	<i>Analyzed:</i>	11.11.2020 21:05	11.11.2020 21:28	11.11.2020 21:50	11.11.2020 22:12		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00204 0.00204	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201		
Toluene		<0.00204 0.00204	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201		
Ethylbenzene		<0.00204 0.00204	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201		
m,p-Xylenes		<0.00408 0.00408	<0.00402 0.00402	<0.00400 0.00400	<0.00402 0.00402		
o-Xylene		<0.00204 0.00204	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201		
Total Xylenes		<0.00204 0.00204	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201		
Total BTEX		<0.00204 0.00204	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201		
Chloride by EPA 300	<i>Extracted:</i>	* * * * *	* * * * *	* * * * *	* * * * *	11.17.2020 17:01	11.24.2020 16:36
	<i>Analyzed:</i>	11.11.2020 18:02	11.11.2020 18:08	11.11.2020 18:13	11.11.2020 18:19	11.18.2020 11:33	11.24.2020 22:58
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		16.7 10.1	17.9 10.1	18.9 10.1	739 9.98	74.9 9.92	<9.92 9.92
TPH by SW8015 Mod	<i>Extracted:</i>	11.11.2020 12:00	11.11.2020 12:00	11.11.2020 12:00	11.11.2020 12:00		
	<i>Analyzed:</i>	11.11.2020 18:33	11.11.2020 18:53	11.11.2020 19:12	11.11.2020 19:32		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<50.3 50.3	<49.9 49.9	<49.8 49.8	<49.9 49.9		
Diesel Range Organics (DRO)		<50.3 50.3	<49.9 49.9	<49.8 49.8	<49.9 49.9		
Motor Oil Range Hydrocarbons (MRO)		<50.3 50.3	<49.9 49.9	<49.8 49.8	<49.9 49.9		
Total TPH		<50.3 50.3	<49.9 49.9	<49.8 49.8	<49.9 49.9		

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677486

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Wed 11.11.2020 09:30
Report Date: 11.25.2020 15:29
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677486-040	677486-041	677486-043	677486-044	677486-045	677486-046
	<i>Field Id:</i>	SS-10 6-7'	SS-11 0-2'	SS-12 0-2'	SS-12 2-4'	SS-12 4-6'	SS-12 6-8'
	<i>Depth:</i>	6-7 ft	0-2 ft	0-2 ft	2-4 ft	4-6 ft	6-8 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.10.2020 12:24	11.10.2020 12:50	11.10.2020 13:02	11.10.2020 13:04	11.10.2020 13:06	11.10.2020 13:08
BTEX by EPA 8021B	<i>Extracted:</i>		11.11.2020 14:32	11.11.2020 14:32			
	<i>Analyzed:</i>		11.11.2020 22:35	11.11.2020 22:57			
	<i>Units/RL:</i>		mg/kg RL	mg/kg RL			
Benzene			<0.00200 0.00200	<0.00200 0.00200			
Toluene			<0.00200 0.00200	<0.00200 0.00200			
Ethylbenzene			<0.00200 0.00200	<0.00200 0.00200			
m,p-Xylenes			<0.00401 0.00401	<0.00401 0.00401			
o-Xylene			<0.00200 0.00200	<0.00200 0.00200			
Total Xylenes			<0.00200 0.00200	<0.00200 0.00200			
Total BTEX			<0.00200 0.00200	<0.00200 0.00200			
Chloride by EPA 300	<i>Extracted:</i>	11.24.2020 16:36	** * * * *	** * * * *	11.17.2020 17:01	11.24.2020 16:36	11.24.2020 16:36
	<i>Analyzed:</i>	11.24.2020 23:03	11.11.2020 18:24	11.11.2020 18:41	11.18.2020 11:57	11.24.2020 23:08	11.24.2020 23:13
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		27.1 9.98	<9.98 9.98	7740 101	5450 50.2	47.1 9.26	34.7 9.98
TPH by SW8015 Mod	<i>Extracted:</i>		11.11.2020 12:00	11.11.2020 12:00			
	<i>Analyzed:</i>		11.11.2020 20:12	11.11.2020 20:33			
	<i>Units/RL:</i>		mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)			<50.1 50.1	<49.9 49.9			
Diesel Range Organics (DRO)			<50.1 50.1	<49.9 49.9			
Motor Oil Range Hydrocarbons (MRO)			<50.1 50.1	<49.9 49.9			
Total TPH			<50.1 50.1	<49.9 49.9			

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Certificate of Analysis Summary 677486

KJ Environmental & Civil Engineering, Aubrey, TX



Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Wed 11.11.2020 09:30
Report Date: 11.25.2020 15:29
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677486-047	677486-048	677486-052	677486-053	677486-054	677486-055
	<i>Field Id:</i>	SS-12 8-9'	SS-13 0-2'	SS-14 0-2'	SS-14 2-4'	SS-14 4-6'	SS-14 6-8'
	<i>Depth:</i>	8-9 ft	0-2 ft	0-2 ft	2-4 ft	4-6 ft	6-8 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.10.2020 13:10	11.10.2020 13:27	11.10.2020 13:42	11.10.2020 13:44	11.10.2020 13:46	11.10.2020 13:48
BTEX by EPA 8021B	<i>Extracted:</i>		11.12.2020 09:29	11.12.2020 09:29			
	<i>Analyzed:</i>		11.12.2020 13:08	11.12.2020 13:30			
	<i>Units/RL:</i>		mg/kg RL	mg/kg RL			
Benzene			<0.00201 0.00201	<0.00200 0.00200			
Toluene			<0.00201 0.00201	<0.00200 0.00200			
Ethylbenzene			<0.00201 0.00201	<0.00200 0.00200			
m,p-Xylenes			<0.00402 0.00402	<0.00399 0.00399			
o-Xylene			<0.00201 0.00201	<0.00200 0.00200			
Total Xylenes			<0.00201 0.00201	<0.00200 0.00200			
Total BTEX			<0.00201 0.00201	<0.00200 0.00200			
Chloride by EPA 300	<i>Extracted:</i>	11.24.2020 16:36	** * * * *	** * * * *	11.17.2020 17:01	11.24.2020 16:36	11.24.2020 16:36
	<i>Analyzed:</i>	11.24.2020 23:18	11.11.2020 18:46	11.11.2020 19:03	11.18.2020 12:03	11.24.2020 23:23	11.24.2020 23:39
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<9.88 9.88	16.2 10.0	8690 200	4720 50.3	5090 49.6	7350 50.1
TPH by SW8015 Mod	<i>Extracted:</i>		11.11.2020 12:00	11.11.2020 12:00			
	<i>Analyzed:</i>		11.11.2020 20:53	11.11.2020 21:13			
	<i>Units/RL:</i>		mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)			<50.2 50.2	<49.9 49.9			
Diesel Range Organics (DRO)			<50.2 50.2	<49.9 49.9			
Motor Oil Range Hydrocarbons (MRO)			<50.2 50.2	<49.9 49.9			
Total TPH			<50.2 50.2	<49.9 49.9			

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer



Certificate of Analysis Summary 677486

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Wed 11.11.2020 09:30
Report Date: 11.25.2020 15:29
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677486-056	677486-057	677486-062	677486-063	677486-064	677486-065
	<i>Field Id:</i>	SS-14 8-9'	SS-15 0-2'	SS-16 0-2'	SS-16 2-4'	SS-16 4-6'	SS-16 6-8'
	<i>Depth:</i>	8-9 ft	0-2 ft	0-2 ft	2-4 ft	4-6 ft	6-8 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.10.2020 13:50	11.10.2020 14:02	11.10.2020 14:20	11.10.2020 14:22	11.10.2020 14:24	11.10.2020 14:26
BTEX by EPA 8021B	<i>Extracted:</i>		11.12.2020 09:29	11.12.2020 09:29			
	<i>Analyzed:</i>		11.12.2020 13:53	11.12.2020 14:15			
	<i>Units/RL:</i>		mg/kg RL	mg/kg RL			
Benzene			<0.00200 0.00200	<0.00198 0.00198			
Toluene			<0.00200 0.00200	<0.00198 0.00198			
Ethylbenzene			<0.00200 0.00200	<0.00198 0.00198			
m,p-Xylenes			<0.00400 0.00400	<0.00397 0.00397			
o-Xylene			<0.00200 0.00200	<0.00198 0.00198			
Total Xylenes			<0.00200 0.00200	<0.00198 0.00198			
Total BTEX			<0.00200 0.00200	<0.00198 0.00198			
Chloride by EPA 300	<i>Extracted:</i>	11.24.2020 16:36	** * * * *	** * * * *	11.17.2020 17:01	11.24.2020 16:36	11.24.2020 16:36
	<i>Analyzed:</i>	11.24.2020 23:44	11.11.2020 19:08	11.11.2020 19:13	11.18.2020 12:09	11.25.2020 00:00	11.25.2020 00:05
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		5040 50.2	178 10.0	11000 201	6170 50.2	5570 49.6	5530 49.8
TPH by SW8015 Mod	<i>Extracted:</i>		11.11.2020 12:00	11.11.2020 12:00			
	<i>Analyzed:</i>		11.11.2020 21:33	11.11.2020 21:53			
	<i>Units/RL:</i>		mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)			<50.1 50.1	<49.9 49.9			
Diesel Range Organics (DRO)			<50.1 50.1	<49.9 49.9			
Motor Oil Range Hydrocarbons (MRO)			<50.1 50.1	<49.9 49.9			
Total TPH			<50.1 50.1	<49.9 49.9			

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer



Analytical Report 677486

for

KJ Environmental & Civil Engineering

Project Manager: Travis Reddick

OWL 100520 D

11.25.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



11.25.2020

Project Manager: **Travis Reddick**
KJ Environmental & Civil Engineering
500 Moseley Rd
Aubrey, TX 76227

Reference: Eurofins Xenco, LLC Report No(s): **677486**
OWL 100520 D
Project Address: Lea County, New Mexico

Travis Reddick:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 677486. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 677486 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 677486

KJ Environmental & Civil Engineering, Aubrey, TX

OWL 100520 D

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-01 0-2'	S	11.10.2020 10:21	0 - 2 ft	677486-001
SS-02 0-2'	S	11.10.2020 10:34	0 - 2 ft	677486-004
SS-03 0-2'	S	11.10.2020 10:50	0 - 2 ft	677486-008
SS-03 2-4'	S	11.10.2020 10:52	2 - 4 ft	677486-009
SS-03 4-6'	S	11.10.2020 10:54	4 - 6 ft	677486-010
SS-03 6-8'	S	11.10.2020 10:58	6 - 8 ft	677486-011
SS-03 8-9'	S	11.10.2020 10:58	8 - 9 ft	677486-012
SS-04 0-2'	S	11.10.2020 11:07	0 - 2 ft	677486-013
SS-05 0-2'	S	11.10.2020 11:29	0 - 2 ft	677486-017
SS-06 0-2'	S	11.10.2020 11:39	0 - 2 ft	677486-021
SS-06 2-4'	S	11.10.2020 11:41	2 - 4 ft	677486-022
SS-06 6-7'	S	11.10.2020 11:45	6 - 7 ft	677486-024
SS-07 0-2'	S	11.10.2020 11:46	0 - 2 ft	677486-025
SS-08 0-2'	S	11.10.2020 11:50	0 - 2 ft	677486-029
SS-09 0-2'	S	11.10.2020 12:06	0 - 2 ft	677486-033
SS-10 0-2'	S	11.10.2020 12:18	0 - 2 ft	677486-037
SS-10 2-4'	S	11.10.2020 12:20	2 - 4 ft	677486-038
SS-10 4-6'	S	11.10.2020 12:22	4 - 6 ft	677486-039
SS-10 6-7'	S	11.10.2020 12:24	6 - 7 ft	677486-040
SS-11 0-2'	S	11.10.2020 12:50	0 - 2 ft	677486-041
SS-12 0-2'	S	11.10.2020 13:02	0 - 2 ft	677486-043
SS-12 2-4'	S	11.10.2020 13:04	2 - 4 ft	677486-044
SS-12 4-6'	S	11.10.2020 13:06	4 - 6 ft	677486-045
SS-12 6-8'	S	11.10.2020 13:08	6 - 8 ft	677486-046
SS-12 8-9'	S	11.10.2020 13:10	8 - 9 ft	677486-047
SS-13 0-2'	S	11.10.2020 13:27	0 - 2 ft	677486-048
SS-14 0-2'	S	11.10.2020 13:42	0 - 2 ft	677486-052
SS-14 2-4'	S	11.10.2020 13:44	2 - 4 ft	677486-053
SS-14 4-6'	S	11.10.2020 13:46	4 - 6 ft	677486-054
SS-14 6-8'	S	11.10.2020 13:48	6 - 8 ft	677486-055
SS-14 8-9'	S	11.10.2020 13:50	8 - 9 ft	677486-056
SS-15 0-2'	S	11.10.2020 14:02	0 - 2 ft	677486-057
SS-16 0-2'	S	11.10.2020 14:20	0 - 2 ft	677486-062
SS-16 2-4'	S	11.10.2020 14:22	2 - 4 ft	677486-063
SS-16 4-6'	S	11.10.2020 14:24	4 - 6 ft	677486-064
SS-16 6-8'	S	11.10.2020 14:26	6 - 8 ft	677486-065
SS-01 2-4'	S	11.10.2020 10:23	2 - 4 ft	Not Analyzed
SS-01 4-6'	S	11.10.2020 10:25	4 - 6 ft	Not Analyzed
SS-02 2-4'	S	11.10.2020 10:36	2 - 4 ft	Not Analyzed
SS-02 4-6'	S	11.10.2020 10:38	4 - 6 ft	Not Analyzed
SS-02 6-8'	S	11.10.2020 10:40	6 - 8 ft	Not Analyzed
SS-04 2-4'	S	11.10.2020 11:09	2 - 4 ft	Not Analyzed
SS-04 4-6'	S	11.10.2020 11:11	4 - 6 ft	Not Analyzed



Sample Cross Reference 677486

KJ Environmental & Civil Engineering, Aubrey, TX

OWL 100520 D

SS-04 6-8'	S	11.10.2020 11:13	6 - 8 ft	Not Analyzed
SS-05 2-4'	S	11.10.2020 11:31	2 - 4 ft	Not Analyzed
SS-05 4-6'	S	11.10.2020 11:33	4 - 6 ft	Not Analyzed
SS-05 6-7'	S	11.10.2020 11:35	6 - 7 ft	Not Analyzed
SS-06 4-6'	S	11.10.2020 11:43	4 - 6 ft	Not Analyzed
SS-07 2-4'	S	11.10.2020 11:48	2 - 4 ft	Not Analyzed
SS-07 4-6'	S	11.10.2020 11:50	4 - 6 ft	Not Analyzed
SS-07 6-7'	S	11.10.2020 11:52	6 - 7 ft	Not Analyzed
SS-08 2-4'	S	11.10.2020 11:52	2 - 4 ft	Not Analyzed
SS-08 4-6'	S	11.10.2020 11:54	4 - 6 ft	Not Analyzed
SS-08 6-7'	S	11.10.2020 11:56	6 - 7 ft	Not Analyzed
SS-09 2-4'	S	11.10.2020 12:08	2 - 4 ft	Not Analyzed
SS-09 4-6'	S	11.10.2020 12:10	4 - 6 ft	Not Analyzed
SS-09 6-8'	S	11.10.2020 12:12	6 - 7 ft	Not Analyzed
SS-11 2-4'	S	11.10.2020 12:53	2 - 4 ft	Not Analyzed
SS-13 2-4'	S	11.10.2020 13:29	2 - 4 ft	Not Analyzed
SS-13 4-6'	S	11.10.2020 13:31	4 - 6 ft	Not Analyzed
SS-13 6-7'	S	11.10.2020 13:33	6 - 7 ft	Not Analyzed
SS-15 2-4'	S	11.10.2020 14:04	2 - 4 ft	Not Analyzed
SS-15 4-6'	S	11.10.2020 14:06	4 - 6 ft	Not Analyzed
SS-15 6-8'	S	11.10.2020 14:08	6 - 8 ft	Not Analyzed
SS-15 8-10'	S	11.10.2020 14:10	8 - 10 ft	Not Analyzed



CASE NARRATIVE

Client Name: KJ Environmental & Civil Engineering

Project Name: OWL 100520 D

Project ID:
Work Order Number(s): 677486

Report Date: 11.25.2020
Date Received: 11.11.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-01 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-001 Date Collected: 11.10.2020 10:21 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.1	10.1	mg/kg	11.11.2020 17:08	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.11.2020 15:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.11.2020 15:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.11.2020 15:50	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.11.2020 15:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	11.11.2020 15:50	
o-Terphenyl	84-15-1	116	%	70-135	11.11.2020 15:50	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-01 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-001 Date Collected: 11.10.2020 10:21 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.11.2020 17:54	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.11.2020 17:54	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.11.2020 17:54	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.11.2020 17:54	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.11.2020 17:54	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.11.2020 17:54	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.11.2020 17:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.11.2020 17:54	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.11.2020 17:54	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-02 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-004 Date Collected: 11.10.2020 10:34 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	44.8	10.0	mg/kg	11.11.2020 17:24		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.11.2020 16:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.11.2020 16:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.11.2020 16:51	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.11.2020 16:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	11.11.2020 16:51	
o-Terphenyl	84-15-1	94	%	70-135	11.11.2020 16:51	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-02 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-004 Date Collected: 11.10.2020 10:34 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.11.2020 18:16	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.11.2020 18:16	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.11.2020 18:16	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	11.11.2020 18:16	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.11.2020 18:16	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.11.2020 18:16	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.11.2020 18:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.11.2020 18:16	
4-Bromofluorobenzene	460-00-4	115	%	70-130	11.11.2020 18:16	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-03 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-008 Date Collected: 11.10.2020 10:50 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3140	50.2	mg/kg	11.11.2020 17:29		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.11.2020 17:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.11.2020 17:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.11.2020 17:11	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.11.2020 17:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	11.11.2020 17:11	
o-Terphenyl	84-15-1	106	%	70-135	11.11.2020 17:11	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-03 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-008 Date Collected: 11.10.2020 10:50 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.11.2020 19:36	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.11.2020 19:36	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.11.2020 19:36	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	11.11.2020 19:36	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.11.2020 19:36	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.11.2020 19:36	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.11.2020 19:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.11.2020 19:36	
4-Bromofluorobenzene	460-00-4	116	%	70-130	11.11.2020 19:36	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-03 2-4'	Matrix: Soil	Date Received: 11.11.2020 09:30
Lab Sample Id: 677486-009	Date Collected: 11.10.2020 10:52	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 17:01	Basis: Wet Weight
Seq Number: 3142643		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9330	200	mg/kg	11.18.2020 11:15		20



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-03 4-6'	Matrix: Soil	Date Received: 11.11.2020 09:30
Lab Sample Id: 677486-010	Date Collected: 11.10.2020 10:54	Sample Depth: 4 - 6 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 16:36	Basis: Wet Weight
Seq Number: 3143299		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7910	49.5	mg/kg	11.24.2020 22:11		5



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-03 6-8'	Matrix: Soil	Date Received: 11.11.2020 09:30
Lab Sample Id: 677486-011	Date Collected: 11.10.2020 10:58	Sample Depth: 6 - 8 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 16:36	Basis: Wet Weight
Seq Number: 3143299		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4960	50.5	mg/kg	11.24.2020 22:27		5



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-03 8-9'	Matrix: Soil	Date Received: 11.11.2020 09:30
Lab Sample Id: 677486-012	Date Collected: 11.10.2020 10:58	Sample Depth: 8 - 9 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 16:36	Basis: Wet Weight
Seq Number: 3143299		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6300	50.5	mg/kg	11.24.2020 22:32		5



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-04 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-013 Date Collected: 11.10.2020 11:07 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.2	10.1	mg/kg	11.11.2020 17:35		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.11.2020 17:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.11.2020 17:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.11.2020 17:32	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.11.2020 17:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-135	11.11.2020 17:32	
o-Terphenyl	84-15-1	96	%	70-135	11.11.2020 17:32	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-04 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-013 Date Collected: 11.10.2020 11:07 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.11.2020 19:58	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.11.2020 19:58	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.11.2020 19:58	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.11.2020 19:58	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.11.2020 19:58	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.11.2020 19:58	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.11.2020 19:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	11.11.2020 19:58	
1,4-Difluorobenzene	540-36-3	100	%	70-130	11.11.2020 19:58	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-05 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-017 Date Collected: 11.10.2020 11:29 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22.4	9.96	mg/kg	11.11.2020 17:40		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.11.2020 17:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.11.2020 17:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.11.2020 17:52	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.11.2020 17:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	11.11.2020 17:52	
o-Terphenyl	84-15-1	104	%	70-135	11.11.2020 17:52	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-05 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-017 Date Collected: 11.10.2020 11:29 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.11.2020 20:20	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.11.2020 20:20	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.11.2020 20:20	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	11.11.2020 20:20	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.11.2020 20:20	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.11.2020 20:20	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.11.2020 20:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.11.2020 20:20	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.11.2020 20:20	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-06 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-021 Date Collected: 11.10.2020 11:39 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5870	101	mg/kg	11.11.2020 17:46		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.11.2020 18:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.11.2020 18:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.11.2020 18:13	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.11.2020 18:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	11.11.2020 18:13	
o-Terphenyl	84-15-1	118	%	70-135	11.11.2020 18:13	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-06 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-021 Date Collected: 11.10.2020 11:39 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.11.2020 20:43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.11.2020 20:43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.11.2020 20:43	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.11.2020 20:43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.11.2020 20:43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.11.2020 20:43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.11.2020 20:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.11.2020 20:43	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.11.2020 20:43	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-06 2-4'	Matrix: Soil	Date Received: 11.11.2020 09:30
Lab Sample Id: 677486-022	Date Collected: 11.10.2020 11:41	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 16:36	Basis: Wet Weight
Seq Number: 3143299		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	68.6	10.0	mg/kg	11.24.2020 22:37		1



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-06 6-7'	Matrix: Soil	Date Received: 11.11.2020 09:30
Lab Sample Id: 677486-024	Date Collected: 11.10.2020 11:45	Sample Depth: 6 - 7 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 16:36	Basis: Wet Weight
Seq Number: 3143299		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17.0	9.98	mg/kg	11.24.2020 22:42		1



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-07 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-025 Date Collected: 11.10.2020 11:46 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.7	10.1	mg/kg	11.11.2020 18:02		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.11.2020 18:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.11.2020 18:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.11.2020 18:33	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.11.2020 18:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	11.11.2020 18:33	
o-Terphenyl	84-15-1	112	%	70-135	11.11.2020 18:33	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-07 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-025 Date Collected: 11.10.2020 11:46 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00204	0.00204	mg/kg	11.11.2020 21:05	U	1
Toluene	108-88-3	<0.00204	0.00204	mg/kg	11.11.2020 21:05	U	1
Ethylbenzene	100-41-4	<0.00204	0.00204	mg/kg	11.11.2020 21:05	U	1
m,p-Xylenes	179601-23-1	<0.00408	0.00408	mg/kg	11.11.2020 21:05	U	1
o-Xylene	95-47-6	<0.00204	0.00204	mg/kg	11.11.2020 21:05	U	1
Total Xylenes	1330-20-7	<0.00204	0.00204	mg/kg	11.11.2020 21:05	U	1
Total BTEX		<0.00204	0.00204	mg/kg	11.11.2020 21:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.11.2020 21:05	
4-Bromofluorobenzene	460-00-4	116	%	70-130	11.11.2020 21:05	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-08 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-029 Date Collected: 11.10.2020 11:50 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17.9	10.1	mg/kg	11.11.2020 18:08		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.11.2020 18:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.11.2020 18:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.11.2020 18:53	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.11.2020 18:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	11.11.2020 18:53	
o-Terphenyl	84-15-1	104	%	70-135	11.11.2020 18:53	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-08 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-029 Date Collected: 11.10.2020 11:50 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.11.2020 21:28	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.11.2020 21:28	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.11.2020 21:28	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.11.2020 21:28	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.11.2020 21:28	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.11.2020 21:28	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.11.2020 21:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.11.2020 21:28	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.11.2020 21:28	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-09 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-033 Date Collected: 11.10.2020 12:06 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.9	10.1	mg/kg	11.11.2020 18:13		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.11.2020 19:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.11.2020 19:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.11.2020 19:12	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.11.2020 19:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	11.11.2020 19:12	
o-Terphenyl	84-15-1	114	%	70-135	11.11.2020 19:12	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-09 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-033 Date Collected: 11.10.2020 12:06 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.11.2020 21:50	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.11.2020 21:50	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.11.2020 21:50	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	11.11.2020 21:50	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.11.2020 21:50	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.11.2020 21:50	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.11.2020 21:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.11.2020 21:50	
4-Bromofluorobenzene	460-00-4	120	%	70-130	11.11.2020 21:50	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-10 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-037 Date Collected: 11.10.2020 12:18 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	739	9.98	mg/kg	11.11.2020 18:19		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.11.2020 19:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.11.2020 19:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.11.2020 19:32	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.11.2020 19:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	11.11.2020 19:32	
o-Terphenyl	84-15-1	108	%	70-135	11.11.2020 19:32	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-10 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-037 Date Collected: 11.10.2020 12:18 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.11.2020 22:12	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.11.2020 22:12	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.11.2020 22:12	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.11.2020 22:12	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.11.2020 22:12	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.11.2020 22:12	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.11.2020 22:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	70-130	11.11.2020 22:12	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.11.2020 22:12	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-10 2-4'	Matrix: Soil	Date Received: 11.11.2020 09:30
Lab Sample Id: 677486-038	Date Collected: 11.10.2020 12:20	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 17:01	Basis: Wet Weight
Seq Number: 3142643		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	74.9	9.92	mg/kg	11.18.2020 11:33		1



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-10 4-6'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-039 Date Collected: 11.10.2020 12:22 Sample Depth: 4 - 6 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.24.2020 16:36 % Moisture:
 Seq Number: 3143299 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.92	9.92	mg/kg	11.24.2020 22:58	U	1



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-10 6-7'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-040 Date Collected: 11.10.2020 12:24 Sample Depth: 6 - 7 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.24.2020 16:36 % Moisture:
 Seq Number: 3143299 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	27.1	9.98	mg/kg	11.24.2020 23:03		1



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-11 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-041 Date Collected: 11.10.2020 12:50 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.98	9.98	mg/kg	11.11.2020 18:24	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.11.2020 20:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.11.2020 20:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.11.2020 20:12	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.11.2020 20:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	11.11.2020 20:12	
o-Terphenyl	84-15-1	112	%	70-135	11.11.2020 20:12	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-11 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-041 Date Collected: 11.10.2020 12:50 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.11.2020 22:35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.11.2020 22:35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.11.2020 22:35	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.11.2020 22:35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.11.2020 22:35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.11.2020 22:35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.11.2020 22:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	11.11.2020 22:35	
4-Bromofluorobenzene	460-00-4	115	%	70-130	11.11.2020 22:35	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-12 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-043 Date Collected: 11.10.2020 13:02 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7740	101	mg/kg	11.11.2020 18:41		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.11.2020 20:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.11.2020 20:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.11.2020 20:33	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.11.2020 20:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	11.11.2020 20:33	
o-Terphenyl	84-15-1	102	%	70-135	11.11.2020 20:33	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-12 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-043 Date Collected: 11.10.2020 13:02 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.11.2020 14:32 % Moisture:
 Seq Number: 3142038 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.11.2020 22:57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.11.2020 22:57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.11.2020 22:57	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.11.2020 22:57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.11.2020 22:57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.11.2020 22:57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.11.2020 22:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	11.11.2020 22:57	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.11.2020 22:57	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-12 2-4'	Matrix: Soil	Date Received: 11.11.2020 09:30
Lab Sample Id: 677486-044	Date Collected: 11.10.2020 13:04	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 17:01	Basis: Wet Weight
Seq Number: 3142643		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5450	50.2	mg/kg	11.18.2020 11:57		5



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-12 4-6'	Matrix: Soil	Date Received: 11.11.2020 09:30
Lab Sample Id: 677486-045	Date Collected: 11.10.2020 13:06	Sample Depth: 4 - 6 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 16:36	Basis: Wet Weight
Seq Number: 3143299		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	47.1	9.26	mg/kg	11.24.2020 23:08		1



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-12 6-8'	Matrix: Soil	Date Received: 11.11.2020 09:30
Lab Sample Id: 677486-046	Date Collected: 11.10.2020 13:08	Sample Depth: 6 - 8 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 16:36	Basis: Wet Weight
Seq Number: 3143299		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	34.7	9.98	mg/kg	11.24.2020 23:13		1



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-12 8-9'	Matrix: Soil	Date Received: 11.11.2020 09:30
Lab Sample Id: 677486-047	Date Collected: 11.10.2020 13:10	Sample Depth: 8 - 9 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 16:36	Basis: Wet Weight
Seq Number: 3143299		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.88	9.88	mg/kg	11.24.2020 23:18	U	1



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-13 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-048 Date Collected: 11.10.2020 13:27 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.2	10.0	mg/kg	11.11.2020 18:46		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.11.2020 20:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.11.2020 20:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.11.2020 20:53	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.11.2020 20:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	11.11.2020 20:53	
o-Terphenyl	84-15-1	118	%	70-135	11.11.2020 20:53	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-13 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-048 Date Collected: 11.10.2020 13:27 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 09:29 % Moisture:
 Seq Number: 3142179 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.12.2020 13:08	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.12.2020 13:08	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.12.2020 13:08	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.12.2020 13:08	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.12.2020 13:08	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.12.2020 13:08	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.12.2020 13:08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	121	%	70-130	11.12.2020 13:08		
1,4-Difluorobenzene	540-36-3	109	%	70-130	11.12.2020 13:08		



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-14 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-052 Date Collected: 11.10.2020 13:42 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8690	200	mg/kg	11.11.2020 19:03		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.11.2020 21:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.11.2020 21:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.11.2020 21:13	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.11.2020 21:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	11.11.2020 21:13	
o-Terphenyl	84-15-1	98	%	70-135	11.11.2020 21:13	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-14 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-052 Date Collected: 11.10.2020 13:42 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 09:29 % Moisture:
 Seq Number: 3142179 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.12.2020 13:30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.12.2020 13:30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.12.2020 13:30	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.12.2020 13:30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.12.2020 13:30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.12.2020 13:30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.12.2020 13:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	11.12.2020 13:30	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.12.2020 13:30	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-14 2-4'	Matrix: Soil	Date Received: 11.11.2020 09:30
Lab Sample Id: 677486-053	Date Collected: 11.10.2020 13:44	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 17:01	Basis: Wet Weight
Seq Number: 3142643		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4720	50.3	mg/kg	11.18.2020 12:03		5



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-14 4-6'	Matrix: Soil	Date Received: 11.11.2020 09:30
Lab Sample Id: 677486-054	Date Collected: 11.10.2020 13:46	Sample Depth: 4 - 6 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 16:36	Basis: Wet Weight
Seq Number: 3143299		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5090	49.6	mg/kg	11.24.2020 23:23		5



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-14 6-8'	Matrix: Soil	Date Received: 11.11.2020 09:30
Lab Sample Id: 677486-055	Date Collected: 11.10.2020 13:48	Sample Depth: 6 - 8 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 16:36	Basis: Wet Weight
Seq Number: 3143299		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7350	50.1	mg/kg	11.24.2020 23:39		5



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-14 8-9'	Matrix: Soil	Date Received: 11.11.2020 09:30
Lab Sample Id: 677486-056	Date Collected: 11.10.2020 13:50	Sample Depth: 8 - 9 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 16:36	Basis: Wet Weight
Seq Number: 3143299		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5040	50.2	mg/kg	11.24.2020 23:44		5



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-15 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-057 Date Collected: 11.10.2020 14:02 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	178	10.0	mg/kg	11.11.2020 19:08		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.11.2020 21:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.11.2020 21:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.11.2020 21:33	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.11.2020 21:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	11.11.2020 21:33	
o-Terphenyl	84-15-1	110	%	70-135	11.11.2020 21:33	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-15 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-057 Date Collected: 11.10.2020 14:02 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 09:29 % Moisture:
 Seq Number: 3142179 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.12.2020 13:53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.12.2020 13:53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.12.2020 13:53	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	11.12.2020 13:53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.12.2020 13:53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.12.2020 13:53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.12.2020 13:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.12.2020 13:53	
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.12.2020 13:53	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-16 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-062 Date Collected: 11.10.2020 14:20 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.10.2020 14:30 % Moisture:
 Seq Number: 3142041 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11000	201	mg/kg	11.11.2020 19:13		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.11.2020 12:00 % Moisture:
 Seq Number: 3142043 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.11.2020 21:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.11.2020 21:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.11.2020 21:53	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.11.2020 21:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-135	11.11.2020 21:53	
o-Terphenyl	84-15-1	114	%	70-135	11.11.2020 21:53	



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-16 0-2'** Matrix: Soil Date Received: 11.11.2020 09:30
 Lab Sample Id: 677486-062 Date Collected: 11.10.2020 14:20 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 09:29 % Moisture:
 Seq Number: 3142179 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.12.2020 14:15	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.12.2020 14:15	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.12.2020 14:15	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.12.2020 14:15	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.12.2020 14:15	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.12.2020 14:15	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.12.2020 14:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.12.2020 14:15		
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.12.2020 14:15		



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-16 2-4'	Matrix: Soil	Date Received: 11.11.2020 09:30
Lab Sample Id: 677486-063	Date Collected: 11.10.2020 14:22	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 17:01	Basis: Wet Weight
Seq Number: 3142643		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6170	50.2	mg/kg	11.18.2020 12:09		5



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-16 4-6'	Matrix: Soil	Date Received: 11.11.2020 09:30
Lab Sample Id: 677486-064	Date Collected: 11.10.2020 14:24	Sample Depth: 4 - 6 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 16:36	Basis: Wet Weight
Seq Number: 3143299		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5570	49.6	mg/kg	11.25.2020 00:00		5



Certificate of Analytical Results 677486

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-16 6-8'	Matrix: Soil	Date Received: 11.11.2020 09:30
Lab Sample Id: 677486-065	Date Collected: 11.10.2020 14:26	Sample Depth: 6 - 8 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 16:36	Basis: Wet Weight
Seq Number: 3143299		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5530	49.8	mg/kg	11.25.2020 00:05		5

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



KJ Environmental & Civil Engineering
 OWL 100520 D

Analytical Method: Chloride by EPA 300

Seq Number: 3142041
 MB Sample Id: 7714965-1-BLK

Matrix: Solid
 LCS Sample Id: 7714965-1-BKS

Prep Method: E300P
 Date Prep: 11.10.2020
 LCSD Sample Id: 7714965-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	258	103	252	101	90-110	2	20	mg/kg	11.11.2020 16:57	

Analytical Method: Chloride by EPA 300

Seq Number: 3142643
 MB Sample Id: 7715379-1-BLK

Matrix: Solid
 LCS Sample Id: 7715379-1-BKS

Prep Method: E300P
 Date Prep: 11.17.2020
 LCSD Sample Id: 7715379-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	256	102	256	102	90-110	0	20	mg/kg	11.18.2020 11:03	

Analytical Method: Chloride by EPA 300

Seq Number: 3143299
 MB Sample Id: 7715948-1-BLK

Matrix: Solid
 LCS Sample Id: 7715948-1-BKS

Prep Method: E300P
 Date Prep: 11.24.2020
 LCSD Sample Id: 7715948-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	247	99	243	97	90-110	2	20	mg/kg	11.24.2020 22:01	

Analytical Method: Chloride by EPA 300

Seq Number: 3142041
 Parent Sample Id: 677486-001

Matrix: Soil
 MS Sample Id: 677486-001 S

Prep Method: E300P
 Date Prep: 11.10.2020
 MSD Sample Id: 677486-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.1	202	199	99	202	100	90-110	1	20	mg/kg	11.11.2020 17:13	

Analytical Method: Chloride by EPA 300

Seq Number: 3142041
 Parent Sample Id: 677486-041

Matrix: Soil
 MS Sample Id: 677486-041 S

Prep Method: E300P
 Date Prep: 11.10.2020
 MSD Sample Id: 677486-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	199	100	200	100	90-110	1	20	mg/kg	11.11.2020 18:30	

Analytical Method: Chloride by EPA 300

Seq Number: 3142643
 Parent Sample Id: 677486-009

Matrix: Soil
 MS Sample Id: 677486-009 S

Prep Method: E300P
 Date Prep: 11.17.2020
 MSD Sample Id: 677486-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9330	202	9530	99	9510	90	90-110	0	20	mg/kg	11.18.2020 11:21	

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

[D] = 100*(C-A) / B
 RPD = 200* | (C-E) / (C+E) |
 [D] = 100 * (C) / [B]
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
 OWL 100520 D

Analytical Method: Chloride by EPA 300

Seq Number: 3142643
 Parent Sample Id: 677769-068

Matrix: Soil
 MS Sample Id: 677769-068 S

Prep Method: E300P
 Date Prep: 11.17.2020
 MSD Sample Id: 677769-068 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4440	202	4640	99	4660	108	90-110	0	20	mg/kg	11.18.2020 13:03	

Analytical Method: Chloride by EPA 300

Seq Number: 3143299
 Parent Sample Id: 677486-010

Matrix: Soil
 MS Sample Id: 677486-010 S

Prep Method: E300P
 Date Prep: 11.24.2020
 MSD Sample Id: 677486-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	7910	202	8100	94	8110	99	90-110	0	20	mg/kg	11.24.2020 22:16	

Analytical Method: Chloride by EPA 300

Seq Number: 3143299
 Parent Sample Id: 677486-054

Matrix: Soil
 MS Sample Id: 677486-054 S

Prep Method: E300P
 Date Prep: 11.24.2020
 MSD Sample Id: 677486-054 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5090	200	5290	100	5290	100	90-110	0	20	mg/kg	11.24.2020 23:29	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142043
 MB Sample Id: 7714966-1-BLK

Matrix: Solid
 LCS Sample Id: 7714966-1-BKS

Prep Method: SW8015P
 Date Prep: 11.11.2020
 LCSD Sample Id: 7714966-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1030	103	944	94	70-135	9	35	mg/kg	11.11.2020 15:09	
Diesel Range Organics (DRO)	<50.0	1000	1140	114	1050	105	70-135	8	35	mg/kg	11.11.2020 15:09	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		125		131		70-135	%	11.11.2020 15:09
o-Terphenyl	101		107		102		70-135	%	11.11.2020 15:09

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142043

Matrix: Solid
 MB Sample Id: 7714966-1-BLK

Prep Method: SW8015P
 Date Prep: 11.11.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.11.2020 14:49	

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

[D] = 100*(C-A) / B
 RPD = 200* | (C-E) / (C+E) |
 [D] = 100 * (C) / [B]
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
OWL 100520 D

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142043

Parent Sample Id: 677486-001

Matrix: Soil

MS Sample Id: 677486-001 S

Prep Method: SW8015P

Date Prep: 11.11.2020

MSD Sample Id: 677486-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	1020	102	1030	103	70-135	1	35	mg/kg	11.11.2020 16:10	
Diesel Range Organics (DRO)	<49.9	998	1120	112	1030	103	70-135	8	35	mg/kg	11.11.2020 16:10	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	121		114		70-135	%	11.11.2020 16:10
o-Terphenyl	108		110		70-135	%	11.11.2020 16:10

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142038

MB Sample Id: 7714969-1-BLK

Matrix: Solid

LCS Sample Id: 7714969-1-BKS

Prep Method: SW5035A

Date Prep: 11.11.2020

LCSD Sample Id: 7714969-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0975	98	0.0933	93	70-130	4	35	mg/kg	11.11.2020 12:50	
Toluene	<0.00200	0.100	0.0927	93	0.0878	88	70-130	5	35	mg/kg	11.11.2020 12:50	
Ethylbenzene	<0.00200	0.100	0.0954	95	0.0926	93	71-129	3	35	mg/kg	11.11.2020 12:50	
m,p-Xylenes	<0.00400	0.200	0.196	98	0.187	94	70-135	5	35	mg/kg	11.11.2020 12:50	
o-Xylene	<0.00200	0.100	0.0967	97	0.0938	94	71-133	3	35	mg/kg	11.11.2020 12:50	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		99		100		70-130	%	11.11.2020 12:50
4-Bromofluorobenzene	112		108		107		70-130	%	11.11.2020 12:50

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142179

MB Sample Id: 7715042-1-BLK

Matrix: Solid

LCS Sample Id: 7715042-1-BKS

Prep Method: SW5035A

Date Prep: 11.12.2020

LCSD Sample Id: 7715042-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0925	93	0.0926	93	70-130	0	35	mg/kg	11.12.2020 11:03	
Toluene	<0.00200	0.100	0.0887	89	0.0899	90	70-130	1	35	mg/kg	11.12.2020 11:03	
Ethylbenzene	<0.00200	0.100	0.0919	92	0.0929	93	71-129	1	35	mg/kg	11.12.2020 11:03	
m,p-Xylenes	<0.00400	0.200	0.185	93	0.189	95	70-135	2	35	mg/kg	11.12.2020 11:03	
o-Xylene	<0.00200	0.100	0.0919	92	0.0940	94	71-133	2	35	mg/kg	11.12.2020 11:03	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		98		99		70-130	%	11.12.2020 11:03
4-Bromofluorobenzene	117		104		107		70-130	%	11.12.2020 11:03

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
 OWL 100520 D

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142038

Parent Sample Id: 677445-013

Matrix: Soil

MS Sample Id: 677445-013 S

Prep Method: SW5035A

Date Prep: 11.11.2020

MSD Sample Id: 677445-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.107	107	0.0799	80	70-130	29	35	mg/kg	11.11.2020 13:34	
Toluene	<0.00200	0.0998	0.103	103	0.0769	77	70-130	29	35	mg/kg	11.11.2020 13:34	
Ethylbenzene	<0.00200	0.0998	0.106	106	0.0778	78	71-129	31	35	mg/kg	11.11.2020 13:34	
m,p-Xylenes	<0.00399	0.200	0.218	109	0.159	80	70-135	31	35	mg/kg	11.11.2020 13:34	
o-Xylene	<0.00200	0.0998	0.109	109	0.0778	78	71-133	33	35	mg/kg	11.11.2020 13:34	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		99		70-130	%	11.11.2020 13:34
4-Bromofluorobenzene	108		112		70-130	%	11.11.2020 13:34

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142179

Parent Sample Id: 677486-048

Matrix: Soil

MS Sample Id: 677486-048 S

Prep Method: SW5035A

Date Prep: 11.12.2020

MSD Sample Id: 677486-048 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.104	103	0.0889	89	70-130	16	35	mg/kg	11.12.2020 11:48	
Toluene	<0.00201	0.101	0.0971	96	0.0819	82	70-130	17	35	mg/kg	11.12.2020 11:48	
Ethylbenzene	<0.00201	0.101	0.0989	98	0.0829	83	71-129	18	35	mg/kg	11.12.2020 11:48	
m,p-Xylenes	<0.00402	0.201	0.201	100	0.167	84	70-135	18	35	mg/kg	11.12.2020 11:48	
o-Xylene	<0.00201	0.101	0.0993	98	0.0794	79	71-133	22	35	mg/kg	11.12.2020 11:48	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		99		70-130	%	11.12.2020 11:48
4-Bromofluorobenzene	109		110		70-130	%	11.12.2020 11:48

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas Texas (214-902-0300)
 Service Center - San Antonio, Texas (210-509-3334)

CHAIN OF CUSTODY

Page 1 of 7

Odessa, Texas (432-563-1800)
 Norcross, Georgia (770-449-8800)
 Lakeland, Florida (863-646-8526)
 Tampa, Florida (813-620-2000)

1077486

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes	
Company Name / Branch: KJE Environmental & Civil Engineering		Project Name/Number: QWL1028169, OWL 1005200		Xenco Quote #		Xenco Job #	
Company Address: 500 Mosely Road, Cross Roads, Texas 76227		Project Location: Lea County		Xenco Quote #		Xenco Job #	
Email: teddick@kje.com		Invoice To: Lea County		Xenco Quote #		Xenco Job #	
Phone No: (940)357-0805		Offfield Water Logistics		Xenco Quote #		Xenco Job #	
Project Contact: Ted Dick		PO Number:		Xenco Quote #		Xenco Job #	
Contract: Trans Redick		Sample Depth		Xenco Quote #		Xenco Job #	
Sampler's Name		Date		Xenco Quote #		Xenco Job #	
Field ID / Point of Collection		Time		Xenco Quote #		Xenco Job #	
No.		Matrix		Xenco Quote #		Xenco Job #	
1		SS-01 0-2'		Xenco Quote #		Xenco Job #	
2		SS-01 2-4'		Xenco Quote #		Xenco Job #	
3		SS-01 4-6'		Xenco Quote #		Xenco Job #	
4		SS-02 0-2'		Xenco Quote #		Xenco Job #	
5		SS-02 2-4'		Xenco Quote #		Xenco Job #	
6		SS-02 4-6'		Xenco Quote #		Xenco Job #	
7		SS-02 6-8'		Xenco Quote #		Xenco Job #	
8		SS-03 0-2'		Xenco Quote #		Xenco Job #	
9		SS-03 2-4'		Xenco Quote #		Xenco Job #	
10		SS-03 4-6'		Xenco Quote #		Xenco Job #	
Turnaround Time (Business days)		Date Deliverable Information		Xenco Quote #		Xenco Job #	
<input type="checkbox"/> Same Day TAT		<input type="checkbox"/> 5 Day TAT		Xenco Quote #		Xenco Job #	
<input type="checkbox"/> Next Day EMERGENCY		<input type="checkbox"/> 7 Day TAT		Xenco Quote #		Xenco Job #	
<input type="checkbox"/> 2 Day EMERGENCY		<input type="checkbox"/> Contract TAT		Xenco Quote #		Xenco Job #	
<input checked="" type="checkbox"/> 3 Day EMERGENCY		<input type="checkbox"/> TRRP Checklist		Xenco Quote #		Xenco Job #	
TAT Starts Day received by Lab, if received by 5:00 pm		Level II Std QC		Xenco Quote #		Xenco Job #	
Relinquished by Sampler:		Level III Std QC+ Forms		Xenco Quote #		Xenco Job #	
Date Time: 11/11/09 3:30		TRRP Level IV		Xenco Quote #		Xenco Job #	
Relinquished By:		Level 3 (CLP Forms)		Xenco Quote #		Xenco Job #	
Date Time:		UST / RG 411		Xenco Quote #		Xenco Job #	
Relinquished by:		TRRP Checklist		Xenco Quote #		Xenco Job #	
Date Time:		Notes:		Xenco Quote #		Xenco Job #	
Relinquished By:		FED-EX / UPS: Tracking #		Xenco Quote #		Xenco Job #	
Date Time:		On Ice		Xenco Quote #		Xenco Job #	
Relinquished By:		Cooler Temp.		Xenco Quote #		Xenco Job #	
Date Time:		Thermo. Corr. Factor		Xenco Quote #		Xenco Job #	
Relinquished By:		Preserved where applicable		Xenco Quote #		Xenco Job #	
Date Time:		Custody Seal #		Xenco Quote #		Xenco Job #	
Relinquished By:		Notes:		Xenco Quote #		Xenco Job #	
Date Time:		Analyze 0-2' samples, Hold		Xenco Quote #		Xenco Job #	
Relinquished By:		all deep samples pending 0-2'		Xenco Quote #		Xenco Job #	
Date Time:		results. 3 day TAT		Xenco Quote #		Xenco Job #	
Relinquished By:		Field Comments:		Xenco Quote #		Xenco Job #	
Date Time:		S = Soil/Sed/Solid		Xenco Quote #		Xenco Job #	
Relinquished By:		GW = Ground Water		Xenco Quote #		Xenco Job #	
Date Time:		DW = Drinking Water		Xenco Quote #		Xenco Job #	
Relinquished By:		P = Product		Xenco Quote #		Xenco Job #	
Date Time:		SW = Surface water		Xenco Quote #		Xenco Job #	
Relinquished By:		SL = Sludge		Xenco Quote #		Xenco Job #	
Date Time:		OW = Ocean/Sea Water		Xenco Quote #		Xenco Job #	
Relinquished By:		W = Wipe		Xenco Quote #		Xenco Job #	
Date Time:		O = Oil		Xenco Quote #		Xenco Job #	
Relinquished By:		WW = Waste Water		Xenco Quote #		Xenco Job #	
Date Time:		A = Air		Xenco Quote #		Xenco Job #	



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas, Texas (214-902-0300)
 Service Center - San Antonio, Texas (210-509-3334)

CHAIN OF CUSTODY
 Page 2 of 2

Odessa, Texas (432-563-1800)
 Norcross, Georgia (770-449-8800)
 Lakeland, Florida (863-646-8526)
 Tampa, Florida (813-620-2000)

677486

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes													
Company Name / Branch: KJE, Environmental & Civil Engineering		Project Name/Number: OW10580 OW10580D		Xenoco Quote #		Xenoco Job #													
Company Address: 500 Moseley Road, Cross Roads, Texas 76227		Project Location: Lea County		Xenoco Quote #		Xenoco Job #													
Email: fred@krie-us.com Phone No: (940)387-0905		Invoice To: Oilfield Water Logistics		Xenoco Quote #		Xenoco Job #													
Project Contact: Travis Reddick		PO Number:		Xenoco Quote #		Xenoco Job #													
Sampler's Name:		Field ID / Point of Collection:		Xenoco Quote #		Xenoco Job #													
NO.		Collection		Analytical Information		Matrix Codes													
1	SS-03 6-8'	Sample Depth	Date	Time	Matrix	# of bottles	HCI	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTX 8260 (5035)	TPH	CHLORIDES	Field Comments	
2	SS-03 8-9'		11/16/20	1058	SS	1									X	X	X		
3	SS-04 0-2'			1107											X	X	X		
4	SS-04 2-4'			1109											X	X	X		
5	SS-04 4-6'			1111											X	X	X		
6	SS-04 6-8'			1113											X	X	X		
7	SS-05 0-2'			1129											X	X	X		
8	SS-05 2-4'			1131											X	X	X		
9	SS-05 4-6'			1133											X	X	X		
10	SS-05 6-7'			1135											X	X	X		
Turnaround Time (Business days)		Data Deliverable Information		Notes:															
<input type="checkbox"/> Same Day TAT		<input type="checkbox"/> 5 Day TAT		Level II Std QC		<input type="checkbox"/> Level IV (Full Data Pkg /raw data)													
<input type="checkbox"/> Next Day EMERGENCY		<input type="checkbox"/> 7 Day TAT		Level III Std QC + Forms		TRRP Level IV													
<input type="checkbox"/> 2 Day EMERGENCY		<input type="checkbox"/> Contract TAT		Level 3 (CLP Forms)		UST / RG -411													
<input checked="" type="checkbox"/> 3 Day EMERGENCY				TRRP Checklist															
TAT Starts Day received by Lab, if received by 5:00 pm		SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY		FED-EX / UPS: Tracking #															
Relinquished by Sampler:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Received By:		Date Time:	
1		11/11 0930		2		2		3		3		4		4		4		4	
Relinquished by:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Received By:		Date Time:	
3		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Received By:		Date Time:	
5		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Received By:		Date Time:	
On Ice		Cooler Temp.		Thermo, Corr. Factor															
<input checked="" type="checkbox"/>		2-21.0		-0.2															

Analyze 0-2' samples, HOLD all deeper samples pending 0-2' results. 3 day TAT



Setting the Standard since 1990
Stafford, Texas (281-240-4200)

Dallas Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

CHAIN OF CUSTODY

Page 2 of 2

1072486

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (888-646-8525)
Tampa, Florida (813-620-2000)

Xenco Quote #

Xenco Job #

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes													
Company Name / Branch: KJE Environmental & Civil Engineering		Project Name/Number: QWL100520D																	
Company Address: 500 Mosely Road, Cross Roads, Texas 76227		Project Location: Lea County																	
Email: fredrick@kies-us.com		Invoice To: Oilfield Water Logistics																	
Phone No: (940)387-0805		PO Number:																	
Project Contact: James FOX		Field ID / Point of Collection:																	
Sample's Name: Travis Reddick		Collection:																	
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCI	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX	TPH	CHLORIDES	Notes:	Field Comments
1	SS-06 0-2'	0-2'	11/10/20	11:39	SS	2									X	X	X		
2	SS-06 2-4'	2-4'	11/10/20	11:41											X	X	X		
3	SS-06 4-6'	4-6'	11/10/20	11:43											X	X	X		
4	SS-06 6-7'	6-7'	11/10/20	11:45											X	X	X		
5	SS-07 0-2'	0-2'	11/10/20	11:46											X	X	X		
6	SS-07 2-4'	2-4'	11/10/20	11:48											X	X	X		
7	SS-07 4-6'	4-6'	11/10/20	11:50											X	X	X		
8	SS-07 6-7'	6-7'	11/10/20	11:52											X	X	X		
9	SS-08 0-2'	0-2'	11/10/20	11:50											X	X	X		
10	SS-08 2-4'	2-4'	11/10/20	11:52											X	X	X		



Setting the Standard since 1990
Stafford, Texas (281-240-4200)
Dallas Texas (214-902-0300)
Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

CHAIN OF CUSTODY

Page 4 of 7

Odessa, Texas (432-563-1800)
Norcross, Georgia (770-449-8800)
Lakeland, Florida (863-646-8526)
Tampa, Florida (813-620-2000)

677486

Client / Reporting Information			Project Information			Analytical Information			Matrix Codes														
Company Name / Branch: KJE Environmental & Civil Engineering Company Address: 500 Moseley Road, Cross Roads, Texas 76227 Email: fredrick@kje-us.com Phone No: (940)397-0805 Project Contact: Travis Reddick Project Email: fredrick@kje-us.com Sampler's Name			Project Name/Number: QWL100520D Project Location: Lga County Invoice To: Offfield Water Logistics PO Number:			Xenco Quote # Xenco Job #			S = Soil/Sed/Solid GW = Ground Water DW = Drinking Water P = Product SW = Surface water SL = Sludge OW = Ocean/Sea Water W = Wipe O = Oil WW = Waste Water A = Air														
No.	Field ID / Point of Collection	Sample Depth	Collection Date	Time	Matrix	# of bottles	HCI	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEx 8260 (6035)	BTEx 8021	TPH	CHLORIDES	Field Comments				
1	SS-08	4-6'	4-6'	11/10/20	1154	55	2							X	X	X	X						
2	SS-08	6-7'													X	X	X						
3	SS-09	0-2'			1206										X	X	X						
4	SS-09	2-4'			1208										X	X	X						
5	SS-09	4-6'			1210										X	X	X						
6	SS-09	6-8'			1212										X	X	X						
7	SS-10	0-2'			1218										X	X	X						
8	SS-10	2-4'			1220										X	X	X						
9	SS-10	4-6'			1222										X	X	X						
10	SS-10	6-7'			1224										X	X	X						
Turnaround Time (Business days)																				Notes: Analyze 0-2' samples, HOLD ALL deeper sam pbs pending 0-2' results. 3 day THP			
<input type="checkbox"/> Same Day TAT						<input type="checkbox"/> 5 Day TAT						<input type="checkbox"/> Level II Std QC						<input type="checkbox"/> Level IV (Full Data Pkg /raw data)					
<input type="checkbox"/> Next Day EMERGENCY						<input type="checkbox"/> 7 Day TAT						<input type="checkbox"/> Level III Std QC+ Forms						<input type="checkbox"/> TRRP Level IV					
<input type="checkbox"/> 2 Day EMERGENCY						<input type="checkbox"/> Contract TAT						<input type="checkbox"/> Level 3 (CLP Forms)						<input type="checkbox"/> UST / RG 411					
<input checked="" type="checkbox"/> 3 Day EMERGENCY						<input type="checkbox"/> TRRP Checklist																	
TAT Starts Day received by Lab, if received by 5:00 pm																		FED-EX / UPS: Tracking #					
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																							
1	Relinquished by Sampler:	Date Time:			1/11/20	0930	Received By:	Date Time:			2	Relinquished By:	Date Time:			4	Received By:	Date Time:					
3	Relinquished by:	Date Time:			3	Received By:	Date Time:			4	Custody Seal #	Date Time:			4	Received By:	Date Time:						
5	Relinquished by:	Date Time:			5	Received By:	Date Time:			5	Preserved where applicable	Date Time:			5	Received By:	Date Time:						



Setting the Standard since 1990
Stafford, Texas (281-240-4200)
Dallas, Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

Odessa, Texas (432-563-1800)
Norcross, Georgia (770-449-8900)
Lakeland, Florida (863-646-8526)
Tampa, Florida (813-820-2000)

CHAIN OF CUSTODY

Page 5 of 7

LOT 22486

Client / Reporting Information
 Company Name / Branch: K/E Environmental & Civil Engineering
 Company Address: 500 Mosely Road, Cross Roads, Texas 76227
 Email: James.Lee@redrick.com Phone No: (940)387-0905
 Project Contact: **James Lee**
 Project Name/Number: **OWL100520D**
 Project Location: **Lea County**
 Invoice To: **Oilfield Water Logistics**
 PO Number: **BTEX 8021**

Project Information
 Project Name/Number: **OWL100520D**
 Project Location: **Lea County**
 Invoice To: **Oilfield Water Logistics**
 PO Number: **BTEX 8021**

Analytical Information
 Xeno Quote #: **BTEX 8260 (5035)**
 Xeno Job #: **BTEX 8021**

Matrix Codes
 S = Soil/Sed/Solid
 GW = Ground Water
 DW = Drinking Water
 P = Product
 SW = Surface water
 SL = Sludge
 OW = Ocean/Sea Water
 W = Wipe
 O = Oil
 WW = Waste Water
 A = Air

No.	Field ID / Point of Collection	Collection		Matrix	# of bottles	Number of preserved bottles									Notes	Field Comments	
		Sample Depth	Date			Time	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE			
1	SS-11 0-2'	0-2'	11/10/20	1250	5									X	BTEX 8260 (5035)		
2	SS-11 2-4'	2-4'	11/10/20	1253	1									X	TPH		
3	SS-12 0-2'	0-2'	11/10/20	1302	1									X	CHLORIDES		
4	SS-12 2-4'	2-4'	11/10/20	1304	1									X			
5	SS-12 4-6'	4-6'	11/10/20	1306	1									X			
6	SS-12 6-8'	6-8'	11/10/20	1308	1									X			
7	SS-12 8-9'	8-9'	11/10/20	1310	1									X			
8	SS-13 0-2'	0-2'	11/10/20	1327	1									X			
9	SS-13 2-4'	2-4'	11/10/20	1329	1									X			
10	SS-13 4-6'	4-6'	11/10/20	1331	1									X			

Turnaround Time (Business days)
 Same Day TAT
 5 Day TAT
 Next Day EMERGENCY
 7 Day TAT
 2 Day EMERGENCY
 Contract TAT
 3 Day EMERGENCY

Data Deliverable Information
 Level II Std QC
 Level IV (Full Data Pig/raw data)
 Level III Std QC+ Forms
 TRRP Level IV
 Level 3 (CLP Forms)
 UST / RG -411
 TRRP Checklist

Notes:
 Analyze 0-2' samples, HOLD all deeper samples pending 0-2' results, 3 day TAT

TAT Starts Day received by Lab, if received by 5:00 pm

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by:	Date Time:	Received By:	Date Time:	Relinquished by:	Date Time:	Received By:	Date Time:
1	11/14 09:20	1		2		2	
3		3		4		4	
5		5					

Signature: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously negotiated under a fully executed client contract.

On Ice **Cooler Temp.** 2.2/2.0 **Thermo, Corr. Factor** -0.2



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas, Texas (214-902-0300)
 Service Center - San Antonio, Texas (210-509-3334)

CHAIN OF CUSTODY

Page 6 of 7

www.xenco.com

Odessa, Texas (432-563-1800)
 Norcross, Georgia (770-449-8800)
 Lakeland, Florida (853-646-8526)
 Tampa, Florida (813-620-2000)

1077486

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes			
Company Name / Branch: K/E Environmental & Civil Engineering Company Address: 500 Mosely Road, Cross Roads, Texas 76227 Email: james@xencolab.com Phone No: (940)397-0805		Project Name/Number: OML10052010 Project Location: Len Early Invoice To: Offfield Water Logistics PO Number:		Xenco Quote # Xenco Job #					
Project Contact: Fredrick R. Fox Sampers's Name: Fredrick R. Fox		Project Location: Len Early		BTEX 8260 (5035) 1371: X 8021					
No.	Field ID / Point of Collection	Sample Depth	Collection Date	Time	Matrix	# of bottles	HCI	Number of preserved bottles	Notes
1	SS-13 6-7'	6-7'	11/19/20	1333	SS	1		X	
2	SS-14 0-2'	0-2'		1342				X	
3	SS-14 2-4'	2-4'		1344				X	
4	SS-14 4-6'	4-6'		1346				X	
5	SS-14 6-8'	6-8'		1348				X	
6	SS-14 8-9'	8-9'		1350				X	
7	SS-15 0-2'	0-2'		1402				X	
8	SS-15 2-4'	2-4'		1404				X	
9	SS-15 4-6'	4-6'		1406				X	
10	SS-15 6-8'	6-8'		1408				X	

Data Deliverable Information		Notes	
<input type="checkbox"/> Same Day TAT	<input type="checkbox"/> 5 Day TAT	<input type="checkbox"/> Level II Std QC	<input type="checkbox"/> Level IV (Full Data Pkg /raw data)
<input type="checkbox"/> Next Day EMERGENCY	<input type="checkbox"/> 7 Day TAT	<input type="checkbox"/> Level III Std QC+ Forms	<input type="checkbox"/> TRRP Level IV
<input type="checkbox"/> 2 Day EMERGENCY	<input type="checkbox"/> Contract TAT	<input type="checkbox"/> Level 3 (CLP Forms)	<input type="checkbox"/> UST / RG 411
<input checked="" type="checkbox"/> 3 Day EMERGENCY		<input type="checkbox"/> TRRP Checklist	

TAT Starts Day received by Lab, if received by 5:00 pm

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished By:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:
1	1/11/2020	1		2		2	
3		3		4		4	

Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously negotiated under a fully executed client contract.



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas, Texas (214-902-0300)
 Service Center - San Antonio, Texas (210-509-3334)

CHAIN OF CUSTODY
 Page 2 of 2

www.xenco.com

Odeasa, Texas (432-563-1800)
 Norcross, Georgia (770-449-8800)
 Lakeland, Florida (863-646-8526)
 Tampa, Florida (813-820-2000)

1077486

Xenco Quote # _____ Xenco Job # _____

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes	
Company Name / Branch: KJE, Environmental & Civil Engineering	Project Name/Number: OW-100520D	Company Address: 500 Moseley Road, Cross Roads, Texas 76227	Project Location: Leon County	Project Name/Number: OW-100520D	Invoice To: Offfield Water Logistics	Company Address: 500 Moseley Road, Cross Roads, Texas 76227	Project Location: Leon County
Email: travis@kje-engineers.com James Fox Samplers Name: Travis Reddick	Phone No: (940)387-0905	Project Contact: James Fox	PO Number:	BTEX 8260 (5035)	BTEX 8021	TPH	CHLORIDES

No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles										Notes
							HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX 8260 (5035)	TPH	
1	SS-15 8-10'	8-10'	11/10/20	1410	SS	1									X		
2	SS-16 0-2'	0-2'		1420		1									X		
3	SS-16 2-4'	2-4'		1422		1									X		
4	SS-16 4-6'	4-6'		1424		1									X		
5	SS-16 6-8'	6-8'		1426		1									X		
6	X TRP	X TRP			X TRP										X TRP		
7																	
8																	
9																	
10																	

<input type="checkbox"/> Same Day TAT <input type="checkbox"/> Next Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input checked="" type="checkbox"/> 3 Day EMERGENCY		<input type="checkbox"/> 5 Day TAT <input type="checkbox"/> 7 Day TAT <input type="checkbox"/> Contract TAT <input type="checkbox"/> TRRP Checklist	
TAT Starts Day received by Lab, if received by 5:00 pm SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY		Data Deliverable Information	
Relinquished by: <i>[Signature]</i>	Date Time: 1/16 09:30	Received By: <i>[Signature]</i>	Date Time: _____
Relinquished by:	Date Time:	Received By:	Date Time:
Relinquished by:	Date Time:	Received By:	Date Time:
Relinquished by:	Date Time:	Received By:	Date Time:
Relinquished by:	Date Time:	Received By:	Date Time:

Analyze 0-2' sampler, HOLD all deeper samples pending 0-2' results. 3 day TAT

<input checked="" type="checkbox"/> On Ice Cooler Temp: 2-2/20 Thermo, Corr. Factor: -0.2	Preserved where applicable Date Time: _____ Received By: _____
Analytical Information Date Time: _____ Received By: _____	Matrix Codes Date Time: _____ Received By: _____

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: KJ Environmental & Civil Engineering

Date/ Time Received: 11.11.2020 09.30.00 AM

Work Order #: 677486

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	Yes	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	Samples received in bulk containers.
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:



Cloe Clifton

Date: 11.11.2020

Checklist reviewed by:



Jessica Kramer

Date: 11.12.2020



Certificate of Analysis Summary 677769

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100570 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.16.2020 09:29
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677769-001	677769-005	677769-009	677769-012	677769-018	677769-022
	<i>Field Id:</i>	SS-17 0-2'	SS-18 0-2'	SS-19 0-2'	SS-20 0-2'	SS-21 0-2'	SS-22 0-2'
	<i>Depth:</i>	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.11.2020 08:45	11.11.2020 09:01	11.11.2020 09:12	11.11.2020 09:22	11.11.2020 09:39	11.11.2020 09:52
BTEX by EPA 8021B	<i>Extracted:</i>	11.13.2020 06:53	11.12.2020 17:37	11.12.2020 17:37	11.12.2020 17:37	11.12.2020 17:37	11.12.2020 17:37
	<i>Analyzed:</i>	11.13.2020 10:12	11.13.2020 06:05	11.13.2020 06:27	11.13.2020 08:09	11.13.2020 08:32	11.13.2020 08:54
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200
m,p-Xylenes		<0.00401 0.00401	<0.00403 0.00403	<0.00401 0.00401	<0.00398 0.00398	<0.00403 0.00403	<0.00401 0.00401
o-Xylene		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	11.12.2020 18:00	11.12.2020 18:00	11.12.2020 18:00	11.12.2020 18:00	11.12.2020 18:00	11.12.2020 18:00
	<i>Analyzed:</i>	11.12.2020 20:02	11.12.2020 20:18	11.12.2020 20:24	11.12.2020 20:29	11.12.2020 20:34	11.12.2020 20:51
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		12.5 9.94	5010 100	585 10.1	4820 100	26.4 10.0	6950 100
TPH by SW8015 Mod	<i>Extracted:</i>	11.12.2020 18:09	11.12.2020 18:09	11.12.2020 18:09	11.12.2020 18:09	11.12.2020 18:09	11.12.2020 18:09
	<i>Analyzed:</i>	11.13.2020 01:31	11.13.2020 02:32	11.13.2020 02:52	11.13.2020 03:12	11.13.2020 03:33	11.13.2020 03:53
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.1 50.1	<50.2 50.2	<50.1 50.1	<50.3 50.3	<49.9 49.9
Diesel Range Organics (DRO)		<49.9 49.9	<50.1 50.1	<50.2 50.2	<50.1 50.1	<50.3 50.3	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.1 50.1	<50.2 50.2	<50.1 50.1	<50.3 50.3	<49.9 49.9
Total TPH		<49.9 49.9	<50.1 50.1	<50.2 50.2	<50.1 50.1	<50.3 50.3	<49.9 49.9

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677769

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100570 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.16.2020 09:29
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677769-027	677769-030	677769-037	677769-040	677769-046	677769-048
	<i>Field Id:</i>	SS-23 0-2'	SS-24 0-2'	SS-25 0-2'	SS-26 0-2'	SS-27 0-2'	SS-28 0-2'
	<i>Depth:</i>	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.11.2020 10:06	11.11.2020 10:16	11.11.2020 10:32	11.11.2020 10:42	11.11.2020 10:56	11.11.2020 11:04
BTEX by EPA 8021B	<i>Extracted:</i>	11.12.2020 17:37	** ** ** **	11.12.2020 17:37	11.12.2020 17:37	11.12.2020 17:37	11.12.2020 17:37
	<i>Analyzed:</i>	11.13.2020 09:17	11.13.2020 09:39	11.13.2020 10:02	11.13.2020 10:24	11.13.2020 10:46	11.13.2020 11:09
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198
m,p-Xylenes		<0.00399 0.00399	<0.00399 0.00399	<0.00398 0.00398	<0.00397 0.00397	<0.00398 0.00398	<0.00397 0.00397
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198
Chloride by EPA 300	<i>Extracted:</i>	11.12.2020 18:00	11.12.2020 18:00	11.12.2020 18:00	11.12.2020 18:00	11.12.2020 18:00	11.12.2020 18:00
	<i>Analyzed:</i>	11.12.2020 20:56	11.12.2020 21:02	11.12.2020 21:07	11.12.2020 21:13	11.12.2020 21:18	11.12.2020 21:35
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		11.2 9.90	5000 99.8	18.6 9.98	21.6 10.0	<10.1 10.1	9030 202
TPH by SW8015 Mod	<i>Extracted:</i>	11.12.2020 18:09	11.12.2020 18:09	11.12.2020 18:09	11.12.2020 18:09	11.12.2020 18:11	11.12.2020 18:11
	<i>Analyzed:</i>	11.13.2020 04:13	11.13.2020 04:33	11.13.2020 04:53	11.13.2020 05:13	11.13.2020 01:31	11.13.2020 02:32
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1	<49.8 49.8	<50.2 50.2	<50.3 50.3	<50.2 50.2	<49.8 49.8
Diesel Range Organics (DRO)		<50.1 50.1	<49.8 49.8	<50.2 50.2	<50.3 50.3	<50.2 50.2	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1	<49.8 49.8	<50.2 50.2	<50.3 50.3	<50.2 50.2	<49.8 49.8
Total TPH		<50.1 50.1	<49.8 49.8	<50.2 50.2	<50.3 50.3	<50.2 50.2	<49.8 49.8

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677769

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100570 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.16.2020 09:29
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677769-053	677769-057	677769-059	677769-063	677769-065	677769-067
	<i>Field Id:</i>	SS-29 0-2'	SS-30 0-2'	SS-31 0-2'	SS-32 0-2'	SS-33 0-2'	SS-34 0-2'
	<i>Depth:</i>	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.11.2020 11:22	11.11.2020 11:34	11.11.2020 11:40	11.11.2020 12:00	11.11.2020 12:08	11.11.2020 12:14
BTEX by EPA 8021B	<i>Extracted:</i>	11.12.2020 17:37	11.13.2020 06:53	11.13.2020 06:53	11.13.2020 06:53	11.13.2020 06:53	11.13.2020 06:53
	<i>Analyzed:</i>	11.13.2020 11:31	11.13.2020 10:34	11.13.2020 10:57	11.13.2020 11:19	11.13.2020 11:41	11.13.2020 12:04
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200
m,p-Xylenes		<0.00399 0.00399	<0.00400 0.00400	<0.00399 0.00399	<0.00403 0.00403	<0.00398 0.00398	<0.00401 0.00401
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	11.12.2020 18:00	11.12.2020 18:00	11.12.2020 18:00	11.12.2020 18:00	11.12.2020 18:00	11.12.2020 18:00
	<i>Analyzed:</i>	11.12.2020 21:40	11.12.2020 21:57	11.12.2020 22:02	11.12.2020 22:08	11.12.2020 22:13	11.12.2020 22:19
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		19.6 10.1	13.6 9.92	13.0 9.92	48.1 10.0	35.0 10.0	6960 D 100
TPH by SW8015 Mod	<i>Extracted:</i>	11.12.2020 18:11	11.12.2020 18:11	11.12.2020 18:11	11.12.2020 18:11	11.12.2020 18:11	11.12.2020 18:11
	<i>Analyzed:</i>	11.13.2020 02:52	11.13.2020 03:12	11.13.2020 03:33	11.13.2020 03:53	11.13.2020 04:13	11.13.2020 04:33
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.1 50.1	<50.2 50.2	<50.3 50.3	<49.8 49.8	<49.9 49.9
Diesel Range Organics (DRO)		<49.9 49.9	<50.1 50.1	<50.2 50.2	<50.3 50.3	<49.8 49.8	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.1 50.1	<50.2 50.2	<50.3 50.3	<49.8 49.8	<49.9 49.9
Total TPH		<49.9 49.9	<50.1 50.1	<50.2 50.2	<50.3 50.3	<49.8 49.8	<49.9 49.9

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677769

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100570 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.16.2020 09:29
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	677769-069				
	Field Id:	SS-35 0-2'				
	Depth:	0-2 ft				
	Matrix:	SOIL				
	Sampled:	11.11.2020 12:30				
BTEX by EPA 8021B	Extracted:	11.13.2020 06:53				
	Analyzed:	11.13.2020 12:26				
	Units/RL:	mg/kg RL				
	Benzene	<0.00200 0.00200				
	Toluene	<0.00200 0.00200				
	Ethylbenzene	<0.00200 0.00200				
	m,p-Xylenes	<0.00401 0.00401				
	o-Xylene	<0.00200 0.00200				
Total Xylenes	<0.00200 0.00200					
Total BTEX	<0.00200 0.00200					
Chloride by EPA 300	Extracted:	11.12.2020 18:00				
	Analyzed:	11.12.2020 22:24				
	Units/RL:	mg/kg RL				
Chloride	14.7 9.90					
TPH by SW8015 Mod	Extracted:	11.12.2020 18:11				
	Analyzed:	11.13.2020 04:53				
	Units/RL:	mg/kg RL				
	Gasoline Range Hydrocarbons (GRO)	<50.0 50.0				
	Diesel Range Organics (DRO)	<50.0 50.0				
Motor Oil Range Hydrocarbons (MRO)	<50.0 50.0					
Total TPH	<50.0 50.0					

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer



Analytical Report 677769

for

KJ Environmental & Civil Engineering

Project Manager: Travis Reddick

OWL 100570 D

11.16.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



11.16.2020

Project Manager: **Travis Reddick**
KJ Environmental & Civil Engineering
500 Moseley Rd
Aubrey, TX 76227

Reference: Eurofins Xenco, LLC Report No(s): **677769**
OWL 100570 D
Project Address: Lea County, New Mexico

Travis Reddick:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 677769. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 677769 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 677769

KJ Environmental & Civil Engineering, Aubrey, TX

OWL 100570 D

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-17 0-2'	S	11.11.2020 08:45	0 - 2 ft	677769-001
SS-18 0-2'	S	11.11.2020 09:01	0 - 2 ft	677769-005
SS-19 0-2'	S	11.11.2020 09:12	0 - 2 ft	677769-009
SS-20 0-2'	S	11.11.2020 09:22	0 - 2 ft	677769-012
SS-21 0-2'	S	11.11.2020 09:39	0 - 2 ft	677769-018
SS-22 0-2'	S	11.11.2020 09:52	0 - 2 ft	677769-022
SS-23 0-2'	S	11.11.2020 10:06	0 - 2 ft	677769-027
SS-24 0-2'	S	11.11.2020 10:16	0 - 2 ft	677769-030
SS-25 0-2'	S	11.11.2020 10:32	0 - 2 ft	677769-037
SS-26 0-2'	S	11.11.2020 10:42	0 - 2 ft	677769-040
SS-27 0-2'	S	11.11.2020 10:56	0 - 2 ft	677769-046
SS-28 0-2'	S	11.11.2020 11:04	0 - 2 ft	677769-048
SS-29 0-2'	S	11.11.2020 11:22	0 - 2 ft	677769-053
SS-30 0-2'	S	11.11.2020 11:34	0 - 2 ft	677769-057
SS-31 0-2'	S	11.11.2020 11:40	0 - 2 ft	677769-059
SS-32 0-2'	S	11.11.2020 12:00	0 - 2 ft	677769-063
SS-33 0-2'	S	11.11.2020 12:08	0 - 2 ft	677769-065
SS-34 0-2'	S	11.11.2020 12:14	0 - 2 ft	677769-067
SS-35 0-2'	S	11.11.2020 12:30	0 - 2 ft	677769-069
SS-17 2-4'	S	11.11.2020 08:47	2 - 4 ft	Not Analyzed
SS-17 4-6'	S	11.11.2020 08:49	4 - 6 ft	Not Analyzed
SS-17 6-8'	S	11.11.2020 08:51	6 - 8 ft	Not Analyzed
SS-18 2-4'	S	11.11.2020 09:03	2 - 4 ft	Not Analyzed
SS-18 4-6'	S	11.11.2020 09:05	4 - 6 ft	Not Analyzed
SS-18 6-8'	S	11.11.2020 09:07	6 - 8 ft	Not Analyzed
SS-19 2-4'	S	11.11.2020 09:14	2 - 4 ft	Not Analyzed
SS-19 4-5'	S	11.11.2020 09:16	4 - 5 ft	Not Analyzed
SS-20 2-4'	S	11.11.2020 09:24	2 - 4 ft	Not Analyzed
SS-20 4-6'	S	11.11.2020 09:26	4 - 6 ft	Not Analyzed
SS-20 6-8'	S	11.11.2020 09:28	6 - 8 ft	Not Analyzed
SS-20 8-10'	S	11.11.2020 09:30	8 - 10 ft	Not Analyzed
SS-20 10-11'	S	11.11.2020 09:32	10 - 11 ft	Not Analyzed
SS-21 2-4'	S	11.11.2020 09:41	2 - 4 ft	Not Analyzed
SS-21 4-6'	S	11.11.2020 09:43	4 - 6 ft	Not Analyzed
SS-21 6-8'	S	11.11.2020 09:45	6 - 8 ft	Not Analyzed
SS-22 2-4'	S	11.11.2020 09:54	2 - 4 ft	Not Analyzed
SS-22 4-6'	S	11.11.2020 09:56	4 - 6 ft	Not Analyzed
SS-22 6-8'	S	11.11.2020 09:58	6 - 8 ft	Not Analyzed
SS-22 8-9'	S	11.11.2020 10:00	8 - 9 ft	Not Analyzed
SS-23 2-4'	S	11.11.2020 10:08	2 - 4 ft	Not Analyzed
SS-23 4-6'	S	11.11.2020 10:10	4 - 6 ft	Not Analyzed
SS-24 2-4'	S	11.11.2020 10:18	2 - 4 ft	Not Analyzed
SS-24 4-6'	S	11.11.2020 10:20	4 - 6 ft	Not Analyzed



Sample Cross Reference 677769

KJ Environmental & Civil Engineering, Aubrey, TX

OWL 100570 D

SS-24 6-8'	S	11.11.2020 10:22	6 - 8 ft	Not Analyzed
SS-242 8-10'	S	11.11.2020 10:24	8 - 10 ft	Not Analyzed
SS-24 10-12'	S	11.11.2020 10:26	10 - 12 ft	Not Analyzed
SS-24 12-13'	S	11.11.2020 10:28	12 - 13 ft	Not Analyzed
SS-25 2-4'	S	11.11.2020 10:34	2 - 4 ft	Not Analyzed
SS-25 4-6'	S	11.11.2020 10:36	4 - 6 ft	Not Analyzed
SS-26 2-4	S	11.11.2020 10:44	2 - 4 ft	Not Analyzed
SS-26 4-6'	S	11.11.2020 10:46	4 - 6 ft	Not Analyzed
SS-26 6-8'	S	11.11.2020 10:48	6 - 8 ft	Not Analyzed
SS-26 8-10'	S	11.11.2020 10:50	8 - 10 ft	Not Analyzed
SS-26 10-11'	S	11.11.2020 10:52	10 - 11 ft	Not Analyzed
SS-27 2-4'	S	11.11.2020 10:58	2 - 4 ft	Not Analyzed
SS-28 2-4'	S	11.11.2020 11:06	2 - 4 ft	Not Analyzed
SS-28 4-6'	S	11.11.2020 11:08	4 - 6 ft	Not Analyzed
SS-28 8-10'	S	11.11.2020 11:12	8 - 10 ft	Not Analyzed
SS-28 10-11'	S	11.11.2020 11:14	10 - 11 ft	Not Analyzed
SS-29 2-4'	S	11.11.2020 11:24	2 - 4 ft	Not Analyzed
SS-29 4-6'	S	11.11.2020 11:26	4 - 6 ft	Not Analyzed
SS-29 6-7'	S	11.11.2020 11:28	6 - 7 ft	Not Analyzed
SS-30 2-4'	S	11.11.2020 11:36	2 - 4 ft	Not Analyzed
SS-31 2-4'	S	11.11.2020 11:42	2 - 4 ft	Not Analyzed
SS-31 4-6'	S	11.11.2020 11:44	4 - 6 ft	Not Analyzed
SS-31 6-7'	S	11.11.2020 11:46	6 - 7 ft	Not Analyzed
SS-32 2-4'	S	11.11.2020 12:02	2 - 4 ft	Not Analyzed
SS-33 2-4'	S	11.11.2020 12:10	2 - 4 ft	Not Analyzed
SS-34 2-4'	S	11.11.2020 12:16	2 - 4 ft	Not Analyzed
SS-35 2-4'	S	11.11.2020 12:32	2 - 4 ft	Not Analyzed



CASE NARRATIVE

Client Name: KJ Environmental & Civil Engineering

Project Name: OWL 100570 D

Project ID:
Work Order Number(s): 677769

Report Date: 11.16.2020
Date Received: 11.12.2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-17 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-001 Date Collected: 11.11.2020 08:45 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.5	9.94	mg/kg	11.12.2020 20:02		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:09 % Moisture:
 Seq Number: 3142195 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 01:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 01:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 01:31	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 01:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	11.13.2020 01:31	
o-Terphenyl	84-15-1	94	%	70-135	11.13.2020 01:31	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-17 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-001 Date Collected: 11.11.2020 08:45 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 06:53 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 10:12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 10:12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 10:12	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 10:12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 10:12	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 10:12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 10:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	70-130	11.13.2020 10:12	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 10:12	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-18 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-005 Date Collected: 11.11.2020 09:01 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5010	100	mg/kg	11.12.2020 20:18		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:09 % Moisture:
 Seq Number: 3142195 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.13.2020 02:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.13.2020 02:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.13.2020 02:32	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.13.2020 02:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	11.13.2020 02:32	
o-Terphenyl	84-15-1	94	%	70-135	11.13.2020 02:32	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX
 OWL 100570 D

Sample Id: **SS-18 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-005 Date Collected: 11.11.2020 09:01 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 17:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.13.2020 06:05	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.13.2020 06:05	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.13.2020 06:05	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.13.2020 06:05	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.13.2020 06:05	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	11.13.2020 06:05	U	1
Total BTEX		<0.00202	0.00202	mg/kg	11.13.2020 06:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	11.13.2020 06:05	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 06:05	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-19 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-009 Date Collected: 11.11.2020 09:12 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	585	10.1	mg/kg	11.12.2020 20:24		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:09 % Moisture:
 Seq Number: 3142195 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 02:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.13.2020 02:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.13.2020 02:52	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.13.2020 02:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-135	11.13.2020 02:52	
o-Terphenyl	84-15-1	122	%	70-135	11.13.2020 02:52	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-19 0-2'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-009	Date Collected: 11.11.2020 09:12	Sample Depth: 0 - 2 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.12.2020 17:37	Basis: Wet Weight
Seq Number: 3142212		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 06:27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 06:27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 06:27	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 06:27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 06:27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 06:27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 06:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.13.2020 06:27		
4-Bromofluorobenzene	460-00-4	106	%	70-130	11.13.2020 06:27		



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-20 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-012 Date Collected: 11.11.2020 09:22 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4820	100	mg/kg	11.12.2020 20:29		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:09 % Moisture:
 Seq Number: 3142195 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.13.2020 03:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.13.2020 03:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.13.2020 03:12	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.13.2020 03:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	130	%	70-135	11.13.2020 03:12	
o-Terphenyl	84-15-1	106	%	70-135	11.13.2020 03:12	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-20 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-012 Date Collected: 11.11.2020 09:22 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 17:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 08:09	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 08:09	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 08:09	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 08:09	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 08:09	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 08:09	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 08:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.13.2020 08:09	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.13.2020 08:09	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-21 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-018 Date Collected: 11.11.2020 09:39 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	26.4	10.0	mg/kg	11.12.2020 20:34		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:09 % Moisture:
 Seq Number: 3142195 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.13.2020 03:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.13.2020 03:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.13.2020 03:33	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.13.2020 03:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	11.13.2020 03:33	
o-Terphenyl	84-15-1	118	%	70-135	11.13.2020 03:33	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-21 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-018 Date Collected: 11.11.2020 09:39 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 17:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.13.2020 08:32	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.13.2020 08:32	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.13.2020 08:32	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.13.2020 08:32	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.13.2020 08:32	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	11.13.2020 08:32	U	1
Total BTEX		<0.00202	0.00202	mg/kg	11.13.2020 08:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	11.13.2020 08:32	
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.13.2020 08:32	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-22 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-022 Date Collected: 11.11.2020 09:52 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6950	100	mg/kg	11.12.2020 20:51		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:09 % Moisture:
 Seq Number: 3142195 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 03:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 03:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 03:53	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 03:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	11.13.2020 03:53	
o-Terphenyl	84-15-1	106	%	70-135	11.13.2020 03:53	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-22 0-2'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-022	Date Collected: 11.11.2020 09:52	Sample Depth: 0 - 2 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.12.2020 17:37	Basis: Wet Weight
Seq Number: 3142212		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 08:54	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 08:54	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 08:54	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 08:54	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 08:54	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 08:54	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 08:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	115	%	70-130	11.13.2020 08:54		
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.13.2020 08:54		



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-23 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-027 Date Collected: 11.11.2020 10:06 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.2	9.90	mg/kg	11.12.2020 20:56		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:09 % Moisture:
 Seq Number: 3142195 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.13.2020 04:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.13.2020 04:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.13.2020 04:13	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.13.2020 04:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	126	%	70-135	11.13.2020 04:13	
o-Terphenyl	84-15-1	102	%	70-135	11.13.2020 04:13	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-23 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-027 Date Collected: 11.11.2020 10:06 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 17:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 09:17	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 09:17	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 09:17	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.13.2020 09:17	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 09:17	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 09:17	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 09:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	120	%	70-130	11.13.2020 09:17		
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.13.2020 09:17		



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-24 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-030 Date Collected: 11.11.2020 10:16 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5000	99.8	mg/kg	11.12.2020 21:02		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:09 % Moisture:
 Seq Number: 3142195 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.13.2020 04:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.13.2020 04:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.13.2020 04:33	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.13.2020 04:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	11.13.2020 04:33	
o-Terphenyl	84-15-1	96	%	70-135	11.13.2020 04:33	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-24 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-030 Date Collected: 11.11.2020 10:16 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 15:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 09:39	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 09:39	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 09:39	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.13.2020 09:39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 09:39	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 09:39	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 09:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	11.13.2020 09:39	
1,4-Difluorobenzene	540-36-3	99	%	70-130	11.13.2020 09:39	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-25 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-037 Date Collected: 11.11.2020 10:32 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.6	9.98	mg/kg	11.12.2020 21:07		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:09 % Moisture:
 Seq Number: 3142195 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 04:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.13.2020 04:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.13.2020 04:53	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.13.2020 04:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	132	%	70-135	11.13.2020 04:53	
o-Terphenyl	84-15-1	114	%	70-135	11.13.2020 04:53	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX
 OWL 100570 D

Sample Id: **SS-25 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-037 Date Collected: 11.11.2020 10:32 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 17:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 10:02	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 10:02	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 10:02	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 10:02	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 10:02	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 10:02	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 10:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	127	%	70-130	11.13.2020 10:02	
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.13.2020 10:02	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-26 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-040 Date Collected: 11.11.2020 10:42 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21.6	10.0	mg/kg	11.12.2020 21:13		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:09 % Moisture:
 Seq Number: 3142195 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.13.2020 05:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.13.2020 05:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.13.2020 05:13	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.13.2020 05:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	11.13.2020 05:13	
o-Terphenyl	84-15-1	100	%	70-135	11.13.2020 05:13	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-26 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-040 Date Collected: 11.11.2020 10:42 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 17:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.13.2020 10:24	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.13.2020 10:24	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.13.2020 10:24	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.13.2020 10:24	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.13.2020 10:24	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.13.2020 10:24	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.13.2020 10:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.13.2020 10:24	
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.13.2020 10:24	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-27 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-046 Date Collected: 11.11.2020 10:56 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.1	10.1	mg/kg	11.12.2020 21:18	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:11 % Moisture:
 Seq Number: 3142196 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 01:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.13.2020 01:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.13.2020 01:31	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.13.2020 01:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	11.13.2020 01:31	
o-Terphenyl	84-15-1	94	%	70-135	11.13.2020 01:31	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-27 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-046 Date Collected: 11.11.2020 10:56 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 17:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 10:46	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 10:46	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 10:46	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 10:46	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 10:46	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 10:46	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 10:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	11.13.2020 10:46	
4-Bromofluorobenzene	460-00-4	115	%	70-130	11.13.2020 10:46	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-28 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-048 Date Collected: 11.11.2020 11:04 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9030	202	mg/kg	11.12.2020 21:35		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:11 % Moisture:
 Seq Number: 3142196 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.13.2020 02:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.13.2020 02:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.13.2020 02:32	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.13.2020 02:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	11.13.2020 02:32	
o-Terphenyl	84-15-1	110	%	70-135	11.13.2020 02:32	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-28 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-048 Date Collected: 11.11.2020 11:04 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 17:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.13.2020 11:09	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.13.2020 11:09	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.13.2020 11:09	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.13.2020 11:09	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.13.2020 11:09	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.13.2020 11:09	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.13.2020 11:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	11.13.2020 11:09	
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.13.2020 11:09	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-29 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-053 Date Collected: 11.11.2020 11:22 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.6	10.1	mg/kg	11.12.2020 21:40		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:11 % Moisture:
 Seq Number: 3142196 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 02:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 02:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 02:52	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 02:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	11.13.2020 02:52	
o-Terphenyl	84-15-1	116	%	70-135	11.13.2020 02:52	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX
 OWL 100570 D

Sample Id: **SS-29 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-053 Date Collected: 11.11.2020 11:22 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 17:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 11:31	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 11:31	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 11:31	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.13.2020 11:31	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 11:31	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 11:31	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 11:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.13.2020 11:31	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.13.2020 11:31	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-30 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-057 Date Collected: 11.11.2020 11:34 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.6	9.92	mg/kg	11.12.2020 21:57		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:11 % Moisture:
 Seq Number: 3142196 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.13.2020 03:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.13.2020 03:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.13.2020 03:12	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.13.2020 03:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	11.13.2020 03:12	
o-Terphenyl	84-15-1	102	%	70-135	11.13.2020 03:12	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-30 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-057 Date Collected: 11.11.2020 11:34 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 06:53 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 10:34	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 10:34	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 10:34	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	11.13.2020 10:34	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 10:34	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 10:34	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 10:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 10:34	
4-Bromofluorobenzene	460-00-4	91	%	70-130	11.13.2020 10:34	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-31 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-059 Date Collected: 11.11.2020 11:40 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.0	9.92	mg/kg	11.12.2020 22:02		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:11 % Moisture:
 Seq Number: 3142196 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 03:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.13.2020 03:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.13.2020 03:33	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.13.2020 03:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-135	11.13.2020 03:33	
o-Terphenyl	84-15-1	114	%	70-135	11.13.2020 03:33	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-31 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-059 Date Collected: 11.11.2020 11:40 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 06:53 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 10:57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 10:57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 10:57	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.13.2020 10:57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 10:57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 10:57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 10:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.13.2020 10:57	
4-Bromofluorobenzene	460-00-4	92	%	70-130	11.13.2020 10:57	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-32 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-063 Date Collected: 11.11.2020 12:00 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	48.1	10.0	mg/kg	11.12.2020 22:08		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:11 % Moisture:
 Seq Number: 3142196 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.13.2020 03:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.13.2020 03:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.13.2020 03:53	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.13.2020 03:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	11.13.2020 03:53	
o-Terphenyl	84-15-1	118	%	70-135	11.13.2020 03:53	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-32 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-063 Date Collected: 11.11.2020 12:00 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 06:53 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.13.2020 11:19	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.13.2020 11:19	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.13.2020 11:19	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.13.2020 11:19	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.13.2020 11:19	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	11.13.2020 11:19	U	1
Total BTEX		<0.00202	0.00202	mg/kg	11.13.2020 11:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	11.13.2020 11:19	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.13.2020 11:19	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-33 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-065 Date Collected: 11.11.2020 12:08 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	35.0	10.0	mg/kg	11.12.2020 22:13		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:11 % Moisture:
 Seq Number: 3142196 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.13.2020 04:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.13.2020 04:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.13.2020 04:13	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.13.2020 04:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	11.13.2020 04:13	
o-Terphenyl	84-15-1	118	%	70-135	11.13.2020 04:13	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX
 OWL 100570 D

Sample Id: **SS-33 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-065 Date Collected: 11.11.2020 12:08 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 06:53 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 11:41	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 11:41	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 11:41	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 11:41	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 11:41	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 11:41	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 11:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	70-130	11.13.2020 11:41	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 11:41	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-34 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-067 Date Collected: 11.11.2020 12:14 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6960	100	mg/kg	11.13.2020 13:23	D	10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:11 % Moisture:
 Seq Number: 3142196 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 04:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 04:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 04:33	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 04:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	11.13.2020 04:33	
o-Terphenyl	84-15-1	96	%	70-135	11.13.2020 04:33	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX
 OWL 100570 D

Sample Id: **SS-34 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-067 Date Collected: 11.11.2020 12:14 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 06:53 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 12:04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 12:04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 12:04	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 12:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 12:04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 12:04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 12:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	88	%	70-130	11.13.2020 12:04	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.13.2020 12:04	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-35 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-069 Date Collected: 11.11.2020 12:30 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.7	9.90	mg/kg	11.12.2020 22:24		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:11 % Moisture:
 Seq Number: 3142196 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.13.2020 04:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.13.2020 04:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.13.2020 04:53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.13.2020 04:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-135	11.13.2020 04:53	
o-Terphenyl	84-15-1	116	%	70-135	11.13.2020 04:53	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-35 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-069 Date Collected: 11.11.2020 12:30 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 06:53 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 12:26	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 12:26	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 12:26	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 12:26	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 12:26	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 12:26	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 12:26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	86	%	70-130	11.13.2020 12:26		
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.13.2020 12:26		



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



KJ Environmental & Civil Engineering
OWL 100570 D

Analytical Method: Chloride by EPA 300

Seq Number: 3142191

MB Sample Id: 7715117-1-BLK

Matrix: Solid

LCS Sample Id: 7715117-1-BKS

Prep Method: E300P

Date Prep: 11.12.2020

LCSD Sample Id: 7715117-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	256	102	251	100	90-110	2	20	mg/kg	11.12.2020 19:51	

Analytical Method: Chloride by EPA 300

Seq Number: 3142191

Parent Sample Id: 677769-001

Matrix: Soil

MS Sample Id: 677769-001 S

Prep Method: E300P

Date Prep: 11.12.2020

MSD Sample Id: 677769-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	12.5	199	208	98	211	99	90-110	1	20	mg/kg	11.12.2020 20:07	

Analytical Method: Chloride by EPA 300

Seq Number: 3142191

Parent Sample Id: 677769-046

Matrix: Soil

MS Sample Id: 677769-046 S

Prep Method: E300P

Date Prep: 11.12.2020

MSD Sample Id: 677769-046 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<9.98	200	199	100	199	100	90-110	0	20	mg/kg	11.12.2020 21:24	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142195

MB Sample Id: 7715125-1-BLK

Matrix: Solid

LCS Sample Id: 7715125-1-BKS

Prep Method: SW8015P

Date Prep: 11.12.2020

LCSD Sample Id: 7715125-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1050	105	1010	101	70-135	4	35	mg/kg	11.13.2020 00:51	
Diesel Range Organics (DRO)	<50.0	1000	1140	114	1090	109	70-135	4	35	mg/kg	11.13.2020 00:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		127		121		70-135	%	11.13.2020 00:51
o-Terphenyl	103		107		106		70-135	%	11.13.2020 00:51

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142196

MB Sample Id: 7715128-1-BLK

Matrix: Solid

LCS Sample Id: 7715128-1-BKS

Prep Method: SW8015P

Date Prep: 11.12.2020

LCSD Sample Id: 7715128-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1230	123	1080	108	70-135	13	35	mg/kg	11.13.2020 00:51	
Diesel Range Organics (DRO)	<50.0	1000	1250	125	1250	125	70-135	0	35	mg/kg	11.13.2020 00:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	124		127		133		70-135	%	11.13.2020 00:51
o-Terphenyl	124		129		127		70-135	%	11.13.2020 00:51

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
 OWL 100570 D

Analytical Method: TPH by SW8015 Mod
 Seq Number: 3142195

Matrix: Solid
 MB Sample Id: 7715125-1-BLK

Prep Method: SW8015P
 Date Prep: 11.12.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.13.2020 00:30	

Analytical Method: TPH by SW8015 Mod
 Seq Number: 3142196

Matrix: Solid
 MB Sample Id: 7715128-1-BLK

Prep Method: SW8015P
 Date Prep: 11.12.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.13.2020 00:30	

Analytical Method: TPH by SW8015 Mod
 Seq Number: 3142195
 Parent Sample Id: 677769-001

Matrix: Soil
 MS Sample Id: 677769-001 S

Prep Method: SW8015P
 Date Prep: 11.12.2020
 MSD Sample Id: 677769-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	1120	112	925	93	70-135	19	35	mg/kg	11.13.2020 01:51	
Diesel Range Organics (DRO)	<49.9	997	911	91	1010	101	70-135	10	35	mg/kg	11.13.2020 01:51	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	127		126		70-135	%	11.13.2020 01:51
o-Terphenyl	116		110		70-135	%	11.13.2020 01:51

Analytical Method: TPH by SW8015 Mod
 Seq Number: 3142196
 Parent Sample Id: 677769-046

Matrix: Soil
 MS Sample Id: 677769-046 S

Prep Method: SW8015P
 Date Prep: 11.12.2020
 MSD Sample Id: 677769-046 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	996	1130	113	1030	103	70-135	9	35	mg/kg	11.13.2020 01:51	
Diesel Range Organics (DRO)	<49.8	996	1020	102	1120	112	70-135	9	35	mg/kg	11.13.2020 01:51	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		111		70-135	%	11.13.2020 01:51
o-Terphenyl	120		108		70-135	%	11.13.2020 01:51

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
OWL 100570 D

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142212

Matrix: Solid

Prep Method: SW5035A

Date Prep: 11.12.2020

MB Sample Id: 7715045-1-BLK

LCS Sample Id: 7715045-1-BKS

LCSD Sample Id: 7715045-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0923	92	0.0897	90	70-130	3	35	mg/kg	11.13.2020 00:04	
Toluene	<0.00200	0.100	0.0858	86	0.0852	85	70-130	1	35	mg/kg	11.13.2020 00:04	
Ethylbenzene	<0.00200	0.100	0.0880	88	0.0853	85	71-129	3	35	mg/kg	11.13.2020 00:04	
m,p-Xylenes	<0.00400	0.200	0.182	91	0.177	89	70-135	3	35	mg/kg	11.13.2020 00:04	
o-Xylene	<0.00200	0.100	0.0898	90	0.0884	88	71-133	2	35	mg/kg	11.13.2020 00:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		98		95		70-130	%	11.13.2020 00:04
4-Bromofluorobenzene	118		103		103		70-130	%	11.13.2020 00:04

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142232

Matrix: Solid

Prep Method: SW5035A

Date Prep: 11.13.2020

MB Sample Id: 7715121-1-BLK

LCS Sample Id: 7715121-1-BKS

LCSD Sample Id: 7715121-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.103	103	70-130	2	35	mg/kg	11.13.2020 08:09	
Toluene	<0.00200	0.100	0.0957	96	0.0973	97	70-130	2	35	mg/kg	11.13.2020 08:09	
Ethylbenzene	<0.00200	0.100	0.0868	87	0.0879	88	71-129	1	35	mg/kg	11.13.2020 08:09	
m,p-Xylenes	<0.00400	0.200	0.175	88	0.179	90	70-135	2	35	mg/kg	11.13.2020 08:09	
o-Xylene	<0.00200	0.100	0.0882	88	0.0892	89	71-133	1	35	mg/kg	11.13.2020 08:09	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		99		99		70-130	%	11.13.2020 08:09
4-Bromofluorobenzene	89		86		86		70-130	%	11.13.2020 08:09

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142212

Matrix: Soil

Prep Method: SW5035A

Date Prep: 11.12.2020

Parent Sample Id: 677636-008

MS Sample Id: 677636-008 S

MSD Sample Id: 677636-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0940	94	0.0924	92	70-130	2	35	mg/kg	11.13.2020 00:49	
Toluene	<0.00201	0.100	0.0877	88	0.0866	87	70-130	1	35	mg/kg	11.13.2020 00:49	
Ethylbenzene	<0.00201	0.100	0.0878	88	0.0880	88	71-129	0	35	mg/kg	11.13.2020 00:49	
m,p-Xylenes	<0.00402	0.201	0.179	89	0.182	91	70-135	2	35	mg/kg	11.13.2020 00:49	
o-Xylene	<0.00201	0.100	0.0888	89	0.0897	90	71-133	1	35	mg/kg	11.13.2020 00:49	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		100		70-130	%	11.13.2020 00:49
4-Bromofluorobenzene	113		107		70-130	%	11.13.2020 00:49

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

[D] = 100*(C-A) / B
 RPD = 200* |(C-E) / (C+E)|
 [D] = 100 * (C) / [B]
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering

OWL 100570 D

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142232

Parent Sample Id: 677769-001

Matrix: Soil

MS Sample Id: 677769-001 S

Prep Method: SW5035A

Date Prep: 11.13.2020

MSD Sample Id: 677769-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0928	93	0.0981	98	70-130	6	35	mg/kg	11.13.2020 08:54	
Toluene	<0.00201	0.100	0.0820	82	0.0883	88	70-130	7	35	mg/kg	11.13.2020 08:54	
Ethylbenzene	<0.00201	0.100	0.0770	77	0.0840	84	71-129	9	35	mg/kg	11.13.2020 08:54	
m,p-Xylenes	<0.00402	0.201	0.154	77	0.169	85	70-135	9	35	mg/kg	11.13.2020 08:54	
o-Xylene	<0.00201	0.100	0.0766	77	0.0839	84	71-133	9	35	mg/kg	11.13.2020 08:54	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		99		70-130	%	11.13.2020 08:54
4-Bromofluorobenzene	85		84		70-130	%	11.13.2020 08:54

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Setting the Standard since 1990
 Starford, Texas (281-240-4200)
 Dallas, Texas (214-902-0300)

CHAIN OF CUSTODY

Page 1 of 2

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

Odessa, Texas (432-563-1800)
 Norcross, Georgia (770-449-8800)

Lakeland, Florida (883-646-8526)
 Tampa, Florida (813-620-2000)

6777769

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes												
Company Name / Branch: KJE, Environmental & Civil Engineering		Project Name/Number: <u>OWC100570D</u>		Xenco Quote #		Xenco Job #												
Company Address: 500 Mosely Road, Cross Roads, Texas 76227		Project Location: <u>Leu County</u>		Xenco Job #		Xenco Job #												
Email: <u>traddick@kje-us.com</u> Phone No: (840)387-0805		Invoice To:		Xenco Job #		Xenco Job #												
Project Contact: <u>Travis Reddick</u>		Offroad Water Logistics		Xenco Job #		Xenco Job #												
Samples Name		PO Number:		Xenco Job #		Xenco Job #												
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCI	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTX 8260 (5035)	TPH	CHLORIDES	Notes:
1	SS-17 0-2'	6-2'	11/17/20	8:45	CS	1									X	X	X	
2	SS-17 2-4'	2-4'		8:47											X	X	X	
3	SS-17 4-6'	4-6'		8:49											X	X	X	
4	SS-17 6-8'	6-8'		8:51											X	X	X	
5	SS-18 0-2'	0-2'		9:01											X	X	X	
6	SS-18 2-4'	2-4'		9:03											X	X	X	
7	SS-18 4-6'	4-6'		9:05											X	X	X	
8	SS-18 6-8'	6-8'		9:07											X	X	X	
9	SS-19 0-2'	0-2'		9:12											X	X	X	
10	SS-19 2-4'	2-4'		9:14											X	X	X	

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously negotiated under a fully executed client contract.



Setting the Standard since 1990
Stafford, Texas (281-240-4200)
Dallas, Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

CHAIN OF CUSTODY

Page 2 of 7

www.xenco.com

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (853-546-8526)
Tampa, Florida (813-620-2000)

6777269

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes																							
Company Name / Branch: KJE Environmental & Civil Engineering		Project Name/Number: DVA-102498 001100520D		Xenco Quote #		Xenco Job #																							
Company Address: 500 Mossely Road, Cross Roads, Texas 76227		Project Location: <u>Los County</u>		Xenoco		Xenoco																							
Email: travis@kje-us.com travis@kje-us.com Phone No: (940)387-0905		Invoice To: <u>Los County</u>		Oilfield Water Logistics		Xenoco																							
Project Contact: <u>Travis Reddick</u>		PO Number:		BTEX 8260 (5035)		Xenoco																							
Sampler's Name				TPH		Xenoco																							
				CHLORIDES		Xenoco																							
No. Field ID / Point of Collection		Collection		Notes:		Field Comments																							
1	SS-19 4-5'	Sample Depth	4-5'	Date	11/11/20	Time	9:16	Matrix	CS	# of bottles	1	HCI		NaOH/Zn Acetate		HNO3		H2SO4		NaOH		NaHSO4		MEOH		NONE			
2	SS-20 0-2'	Sample Depth	0-2'	Date		Time	9:22	Matrix		# of bottles		HCI		NaOH/Zn Acetate		HNO3		H2SO4		NaOH		NaHSO4		MEOH		NONE	X		
3	SS-20 2-4'	Sample Depth	2-4'	Date		Time	9:24	Matrix		# of bottles		HCI		NaOH/Zn Acetate		HNO3		H2SO4		NaOH		NaHSO4		MEOH		NONE	X		
4	SS-20 4-6'	Sample Depth	4-6'	Date		Time	9:26	Matrix		# of bottles		HCI		NaOH/Zn Acetate		HNO3		H2SO4		NaOH		NaHSO4		MEOH		NONE	X		
5	SS-20 6-8'	Sample Depth	6-8'	Date		Time	9:28	Matrix		# of bottles		HCI		NaOH/Zn Acetate		HNO3		H2SO4		NaOH		NaHSO4		MEOH		NONE	X		
6	SS-20 8-10'	Sample Depth	8-10'	Date		Time	9:30	Matrix		# of bottles		HCI		NaOH/Zn Acetate		HNO3		H2SO4		NaOH		NaHSO4		MEOH		NONE	X		
7	SS-20 10-11'	Sample Depth	10-11'	Date		Time	9:32	Matrix		# of bottles		HCI		NaOH/Zn Acetate		HNO3		H2SO4		NaOH		NaHSO4		MEOH		NONE	X		
8	SS-21 0-2'	Sample Depth	0-2'	Date		Time	9:39	Matrix		# of bottles		HCI		NaOH/Zn Acetate		HNO3		H2SO4		NaOH		NaHSO4		MEOH		NONE	X		
9	SS-21 2-4'	Sample Depth	2-4'	Date		Time	9:41	Matrix		# of bottles		HCI		NaOH/Zn Acetate		HNO3		H2SO4		NaOH		NaHSO4		MEOH		NONE	X		
10	SS-21 4-6'	Sample Depth	4-6'	Date		Time	9:43	Matrix		# of bottles		HCI		NaOH/Zn Acetate		HNO3		H2SO4		NaOH		NaHSO4		MEOH		NONE	X		
Turnaround Time (Business days)																													
<input type="checkbox"/> Same Day TAT		<input type="checkbox"/> 5 Day TAT																											
<input type="checkbox"/> Next Day EMERGENCY		<input type="checkbox"/> 7 Day TAT																											
<input type="checkbox"/> 2 Day EMERGENCY		<input type="checkbox"/> Contract TAT																											
<input checked="" type="checkbox"/> 3 Day EMERGENCY																													
TAT Starts Day received by Lab, if received by 5:00 pm				Data Deliverable Information				Notes:																					
Relinquished by Sampler				Level II Std QC				<input type="checkbox"/>				Level IV (Full Data Pkg /raw data)				<input type="checkbox"/>													
Relinquished by: <u>S. Reddick</u>				Level III Std QC+ Forms				<input type="checkbox"/>				TRRP Level IV				<input type="checkbox"/>													
Date Time: 11/17/2019 16:15				Level 3 (CLP Forms)				<input type="checkbox"/>				UST / RG-411				<input type="checkbox"/>													
Relinquished By: <u>S. Reddick</u>				TRRP Checklist				<input type="checkbox"/>																					
Date Time: 11/17/2019 16:15				FED-EX / UPS: Tracking #																									
Relinquished By: <u>S. Reddick</u>				Analytical Information																									
Date Time: 11/17/2019 16:15				Matrix Codes																									
Relinquished By: <u>S. Reddick</u>				S = Soil/Sed/Solid																									
Date Time: 11/17/2019 16:15				GW = Ground Water																									
Relinquished By: <u>S. Reddick</u>				DW = Drinking Water																									
Date Time: 11/17/2019 16:15				P = Product																									
Relinquished By: <u>S. Reddick</u>				SW = Surface water																									
Date Time: 11/17/2019 16:15				SL = Sludge																									
Relinquished By: <u>S. Reddick</u>				OW = Ocean/Sea Water																									
Date Time: 11/17/2019 16:15				W = Wipe																									
Relinquished By: <u>S. Reddick</u>				O = Oil																									
Date Time: 11/17/2019 16:15				WW = Waste Water																									
Relinquished By: <u>S. Reddick</u>				A = Air																									



Setting the Standard since 1990
 Starford, Texas (281-240-4200)
 Dallas Texas (214-902-0300)
 Service Center - San Antonio, Texas (210-508-3334)

CHAIN OF CUSTODY

Page 3 of 7

Odessa, Texas (432-563-1800)
 Norcross, Georgia (770-449-8800)
 Lakeland, Florida (863-646-8526)
 Tampa, Florida (813-820-2000)

www.xenco.com

Client / Reporting Information Company Name / Branch: K.J.E. Environmental & Civil Engineering Company Address: 500 Mosely Road, Cross Roads, Texas 76227 Email: info@xenco.com Phone No: (940)387-0805 Project Contact: <i>Tredrick & Kje-us.com</i> Date Rec'd: <i>Travis Pedrick</i> Sampler's Name:		Project Information Project Name/Number: OWL102816D Project Location: Oilfield Water Logistics Invoice To:		Analytical Information Xenco Quote # Xenco Job #		Matrix Codes S = Soil/Sed/Solid GW = Ground Water DW = Drinking Water P = Product SW = Surface water SL = Sludge OW = Ocean/Sea Water O = Oil WW = Waste Water A = Air	
--	--	--	--	---	--	---	--

No.	Field ID / Point of Collection	Collection			Number of preserved bottles										Notes		
		Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE		BTEX 8260 (5035)	TPH
1	SS-21 6-8'	6-8'	11/11/20	9:45	CS	1								X	X	X	
2	SS-22 0-2'	0-2'		9:52										X	X	X	
3	SS-22 2-4'	2-4'		9:54										X	X	X	
4	SS-22 4-6'	4-6'		9:56										X	X	X	
5	SS-22 6-8'	6-8'		9:58										X	X	X	
6	SS-22 8-9'	8-9'		10:00										X	X	X	
7	SS-23 0-2'	0-2'		10:06										X	X	X	
8	SS-23 2-4'	2-4'		10:08										X	X	X	
9	SS-23 4-6'	4-6'		10:10										X	X	X	
10	SS-24 0-2'	0-2'		10:16										X	X	X	

<input type="checkbox"/> Same Day TAT <input type="checkbox"/> Next Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input checked="" type="checkbox"/> 3 Day EMERGENCY		<input type="checkbox"/> 5 Day TAT <input type="checkbox"/> 7 Day TAT <input type="checkbox"/> Contract TAT <input type="checkbox"/> TRRP Checklist	
TAT Starts Day received by Lab, if received by 5:00 pm			
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY			
Relinquished by Sampler: <i>S. Sisk</i> Date Time: <i>11/17/2020 16:15</i>		Relinquished By: <i>Travis Pedrick</i> Date Time: <i>11/22/2020 16:15</i>	
Relinquished by: _____ Date Time: _____		Relinquished By: _____ Date Time: _____	
Relinquished by: _____ Date Time: _____		Relinquished By: _____ Date Time: _____	

Relinquished by: _____ Date Time: _____		Relinquished By: _____ Date Time: _____	
Relinquished by: _____ Date Time: _____		Relinquished By: _____ Date Time: _____	

Relinquished by: _____ Date Time: _____		Relinquished By: _____ Date Time: _____	
Relinquished by: _____ Date Time: _____		Relinquished By: _____ Date Time: _____	

677769



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas, Texas (214-902-0300)

CHAIN OF CUSTODY

Page 4 of 7

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)
 Tampa, Florida (813-620-2000)

677769

Client / Reporting Information			Project Information			Analytical Information			Matrix Codes									
Company Name / Branch: K.J.E. Environmental & Civil Engineering			Project Name/Number: <u>ENV 1028460- Owl 100520D</u>															
Company Address: 500 Mossley Road, Cross Roads, Texas 76227			Project Location: <u>Lea County</u>															
Email: <u>fredrick@kjc-us.com</u> Phone No: (940)387-0905			Invoice To: <u>Oilfield Water Logistics</u>															
Project Contact: <u>Travis Reddick</u>			PO Number:															
Sampler's Name:																		
No.	Field ID / Point of Collection	Sample Depth	Collection Date	Time	Matrix	# of bottles	ICI	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX 8260 (5035)	TPH	CHLORIDES	Notes:
1	SS-24	0-2'	11/11/10	10:10	CS	1								X	X	X		
2	SS-24	4-6'		10:20														
3	SS-24	6-8'		10:20														
4	SS-24	8-10'		10:24														
5	SS-24	10-12'		10:26														
6	SS-24	12-13'		10:28														
7	SS-25	0-2'		10:32														
8	SS-25	2-4'		10:34														
9	SS-25	4-6'		10:36														
10	SS-26	0-2'		10:42														



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas, Texas (214-902-0300)

CHAIN OF CUSTODY

Page 5 of 7

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)
 Tampa, Florida (813-620-2000)

677769

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes	
Company Name / Branch: KLE, Environmental & Civil Engineering		Project Name/Number: <u>ENVIRONMENTAL GULF 100520D</u>		Xenno Quote #		Xenno Job #	
Company Address: 500 Moseley Road, Cross Roads, Texas 76227		Project Location: <u>Lea County</u>		Xenno Quote #		Xenno Job #	
Email: <u>traddick@lyc-us.com</u> Phone No: (940)397-0005		Invoice To: <u>Lea County</u>		Xenno Quote #		Xenno Job #	
Project Contact: <u>Travis Reddick</u>		Invoice To: <u>Lea County</u>		Xenno Quote #		Xenno Job #	
Sampler's Name: <u>Travis Reddick</u>		Field Water Logistics		Xenno Quote #		Xenno Job #	
No.		Field ID / Point of Collection		Xenno Quote #		Xenno Job #	
1		SS-26 2-4'		Xenno Quote #		Xenno Job #	
2		SS-26 4-6'		Xenno Quote #		Xenno Job #	
3		SS-26 6-8'		Xenno Quote #		Xenno Job #	
4		SS-26 8-10'		Xenno Quote #		Xenno Job #	
5		SS-26 10-11'		Xenno Quote #		Xenno Job #	
6		SS-27 0-2'		Xenno Quote #		Xenno Job #	
7		SS-27 2-4'		Xenno Quote #		Xenno Job #	
8		SS-28 0-2'		Xenno Quote #		Xenno Job #	
9		SS-28 2-4'		Xenno Quote #		Xenno Job #	
10		SS-28 4-6'		Xenno Quote #		Xenno Job #	
Turnaround Time (Business days)		Collection		Xenno Quote #		Xenno Job #	
Same Day TAT		Sample Depth		Xenno Quote #		Xenno Job #	
Next Day EMERGENCY		Date		Xenno Quote #		Xenno Job #	
2 Day EMERGENCY		Time		Xenno Quote #		Xenno Job #	
3 Day EMERGENCY		Matrix		Xenno Quote #		Xenno Job #	
TAT Starts Day received by Lab, if received by 5:00 pm		# of bottles		Xenno Quote #		Xenno Job #	
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY		FCI		Xenno Quote #		Xenno Job #	
Relinquished by: <u>S. Reddick</u> Date Time: <u>11/12/2020 14:15</u>		NaOH/Zn Acetate		Xenno Quote #		Xenno Job #	
Relinquished by: <u>S. Reddick</u> Date Time: <u>11/12/2020 14:15</u>		HNO3		Xenno Quote #		Xenno Job #	
Relinquished by: <u>S. Reddick</u> Date Time: <u>11/12/2020 14:15</u>		H2SO4		Xenno Quote #		Xenno Job #	
Relinquished by: <u>S. Reddick</u> Date Time: <u>11/12/2020 14:15</u>		NaOH		Xenno Quote #		Xenno Job #	
Relinquished by: <u>S. Reddick</u> Date Time: <u>11/12/2020 14:15</u>		NaHSO4		Xenno Quote #		Xenno Job #	
Relinquished by: <u>S. Reddick</u> Date Time: <u>11/12/2020 14:15</u>		MEOH		Xenno Quote #		Xenno Job #	
Relinquished by: <u>S. Reddick</u> Date Time: <u>11/12/2020 14:15</u>		NONE		Xenno Quote #		Xenno Job #	
Relinquished by: <u>S. Reddick</u> Date Time: <u>11/12/2020 14:15</u>		BTEX 8260 (5035)		Xenno Quote #		Xenno Job #	
Relinquished by: <u>S. Reddick</u> Date Time: <u>11/12/2020 14:15</u>		TPH		Xenno Quote #		Xenno Job #	
Relinquished by: <u>S. Reddick</u> Date Time: <u>11/12/2020 14:15</u>		CHLORIDES		Xenno Quote #		Xenno Job #	
Relinquished by: <u>S. Reddick</u> Date Time: <u>11/12/2020 14:15</u>		Notes:		Xenno Quote #		Xenno Job #	
Relinquished by: <u>S. Reddick</u> Date Time: <u>11/12/2020 14:15</u>		Analyze 0-2' samples. Hold all deeper samples pending 0-2' results 3 Day TAT		Xenno Quote #		Xenno Job #	
Relinquished by: <u>S. Reddick</u> Date Time: <u>11/12/2020 14:15</u>		FED-EX / UPS: Tracking #		Xenno Quote #		Xenno Job #	
Relinquished by: <u>S. Reddick</u> Date Time: <u>11/12/2020 14:15</u>		On Ice		Xenno Quote #		Xenno Job #	
Relinquished by: <u>S. Reddick</u> Date Time: <u>11/12/2020 14:15</u>		Cooler Temp. <u>10.5/10.6</u>		Xenno Quote #		Xenno Job #	
Relinquished by: <u>S. Reddick</u> Date Time: <u>11/12/2020 14:15</u>		Thermo. Corr. Factor		Xenno Quote #		Xenno Job #	



Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 El Paso, TX (915) 585-4443 Lubbock, TX (806) 794-1296
 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

Work Order No: 1277769

Project Manager: Travis Reddick
 Company Name: VSE, Environmental & Civil Engineering
 Address: 500 Hensley Road, Cross Roads
 City, State ZIP: Cross Roads, TX 76027
 Phone: _____
 Email: treddick@vse-us.com

Bill to: (if different) Oilfield Water Logistics
 Company Name: _____
 Address: _____
 City, State ZIP: _____

Program: UST/PST PRP Brownfields RRC Superfund
 State of Project: _____
 Reporting Level: Level II Level III PST/UST TRRP Level IV
 Deliverables: EDD ADAPT Other: _____

Project Name: _____
 Project Number: OWL 100520D
 Project Location: Lea County
 Sampler's Name: Tyler Esbent
 PO #: _____
 Turn Around: _____
 Routine:
 Rush: 3 DAY
 Due Date: _____

Temp Blank: Yes No
 Temperature (°C): 6.8/6.6
 Received Intact: Yes
 Cooler Custody Seals: Yes No
 Sample Custody Seals: Yes No
 Correction Factor: TNMO07
 Total Containers: _____

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	ANALYSIS REQUEST	Preservative Codes
55-28	8-10'	CS	11/11/2020	11:12	8-10'	1	BTEX 8260 (5035)	MeOH: Me None: NO HNO3: HN H2SO4: H2 HCL: HL NaOH: Na Zn Acetate+ NaOH: Zn
55-28	10-11'		11:14	11:14	10-11'	1	TPH	TAT starts the day received by the lab, if received by 4:00pm
55-29	0-2'		11:22	11:22	0-2'	1	Chlorides	
55-29	2-4'		11:24	11:24	2-4'	1		
55-29	4-6'		11:26	11:26	4-6'	1		
55-29	6-7'		11:28	11:28	6-7'	1		
55-30	0-2'		11:34	11:34	0-2'	1		
55-30	2-4'		11:36	11:36	2-4'	1		
55-31	6-2'		11:40	11:40	0-2'	1		
55-31	2-4'		11:42	11:42	2-4'	1		

Total 200.7 / 6010 200.8 / 6020:
 Circle Method(s) and Metal(s) to be analyzed: _____
 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SIO2 Na Sr Ti Sn U V Zn
 TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
 1631 / 245.1 / 7470 / 7471 : Hg

Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature) S. S. [Signature] Received by: (Signature) Clay Cupper Date/Time 11-12-20 16:15 Relinquished by: (Signature) _____ Received by: (Signature) _____ Date/Time _____

3 Day TAT Analyze 0-2' Samples. Hold all deeper samples pending 0-2' results



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

Chain of Custody

Work Order No: 677769

Project Manager:	Travis Reddick	Bill to: (if different)	Oilfield Water Logistics
Company Name:	KJE, Environmental & Civil Engineering	Company Name:	
Address:	500 Nesselley Road	Address:	
City, State ZIP:	Cross Roads, Tx 76227	City, State ZIP:	
Phone:		Email:	trreddick@kje-us.com
Project Name:		Turn Around	
Project Number:	OWL 100520 D	Routine	<input type="checkbox"/>
Project Location:	Lea County	Rush:	3 DAY
Sampler's Name:	Tyler Eubank	Due Date:	
PO #:		Quote #:	

SAMPLE RECEIPT	Temperature (°C):	Temp Blank:	Yes	No	Wet Ice:	Yes	No
	Received Intact:	Yes	No	Thermometer ID			
	Cooler Custody Seals:	Yes	No	Correction Factor:			
	Sample Custody Seals:	Yes	No	Total Containers:			

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	ANALYSIS REQUEST	Preservative Codes
SS-31	4-6'	CS	11/11/20	11:44	4-6'	1	X	BTEX B260 (5035)	MeOH: Me None: NO HNO3: HN H2SO4: H2 HCL: HL NaOH: Na Zn Acetate+ NaOH: Zn
SS-31	6-7'			11:46	6-7'	1	X	TPH	TAT starts the day received by the lab, if received by 4:00pm
SS-32	0-2'			12:00	0-2'	1	X	Chlorides	
SS-32	2-4'			12:02	2-4'	1	X		
SS-33	0-2'			12:08	0-2'	1	X		
SS-33	2-4'			12:10	2-4'	1	X		
SS-34	0-2'			12:14	0-2'	1	X		
SS-34	2-4'			12:16	2-4'	1	X		
SS-35	0-2'			12:30	0-2'	1	X		
SS-35	2-4'			12:32	2-4'	1	X		

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>S. G. [Signature]</i>	<i>Chris [Signature]</i>	11-12-20 16:15			11/12/20 2
					4
					6

3 Day TAT Analyze 0-2' Samples. Hold all deeper samples pending 0-2' results



Certificate of Analysis Summary 677769

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100570 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.25.2020 15:30
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677769-001	677769-005	677769-006	677769-007	677769-008	677769-009
	<i>Field Id:</i>	SS-17 0-2'	SS-18 0-2'	SS-18 2-4'	SS-18 4-6'	SS-18 6-8'	SS-19 0-2'
	<i>Depth:</i>	0-2 ft	0-2 ft	2-4 ft	4-6 ft	6-8 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.11.2020 08:45	11.11.2020 09:01	11.11.2020 09:03	11.11.2020 09:05	11.11.2020 09:07	11.11.2020 09:12
BTEX by EPA 8021B	<i>Extracted:</i>	11.13.2020 06:53	11.12.2020 17:37				11.12.2020 17:37
	<i>Analyzed:</i>	11.13.2020 10:12	11.13.2020 06:05				11.13.2020 06:27
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				mg/kg RL
Benzene		<0.00200 0.00200	<0.00202 0.00202				<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00202 0.00202				<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00202 0.00202				<0.00200 0.00200
m,p-Xylenes		<0.00401 0.00401	<0.00403 0.00403				<0.00401 0.00401
o-Xylene		<0.00200 0.00200	<0.00202 0.00202				<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00202 0.00202				<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00202 0.00202				<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	11.12.2020 18:00	11.12.2020 18:00	11.17.2020 17:01	11.24.2020 16:36	11.24.2020 16:36	11.12.2020 18:00
	<i>Analyzed:</i>	11.12.2020 20:02	11.12.2020 20:18	11.18.2020 12:27	11.25.2020 00:10	11.25.2020 00:15	11.12.2020 20:24
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		12.5 9.94	5010 100	5800 50.3	5220 49.6	8250 50.1	585 10.1
TPH by SW8015 Mod	<i>Extracted:</i>	11.12.2020 18:09	11.12.2020 18:09				11.12.2020 18:09
	<i>Analyzed:</i>	11.13.2020 01:31	11.13.2020 02:32				11.13.2020 02:52
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.1 50.1				<50.2 50.2
Diesel Range Organics (DRO)		<49.9 49.9	<50.1 50.1				<50.2 50.2
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.1 50.1				<50.2 50.2
Total TPH		<49.9 49.9	<50.1 50.1				<50.2 50.2

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677769

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100570 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.25.2020 15:30
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677769-012	677769-013	677769-014	677769-015	677769-016	677769-017
	<i>Field Id:</i>	SS-20 0-2'	SS-20 2-4'	SS-20 4-6'	SS-20 6-8'	SS-20 8-10'	SS-20 10-11'
	<i>Depth:</i>	0-2 ft	2-4 ft	4-6 ft	6-8 ft	8-10 ft	10-11 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.11.2020 09:22	11.11.2020 09:24	11.11.2020 09:26	11.11.2020 09:28	11.11.2020 09:30	11.11.2020 09:32
BTEX by EPA 8021B	<i>Extracted:</i>	11.12.2020 17:37					
	<i>Analyzed:</i>	11.13.2020 08:09					
	<i>Units/RL:</i>	mg/kg RL					
Benzene		<0.00199 0.00199					
Toluene		<0.00199 0.00199					
Ethylbenzene		<0.00199 0.00199					
m,p-Xylenes		<0.00398 0.00398					
o-Xylene		<0.00199 0.00199					
Total Xylenes		<0.00199 0.00199					
Total BTEX		<0.00199 0.00199					
Chloride by EPA 300	<i>Extracted:</i>	11.12.2020 18:00	11.17.2020 17:01	11.24.2020 16:36	11.24.2020 16:36	11.24.2020 16:36	11.24.2020 17:00
	<i>Analyzed:</i>	11.12.2020 20:29	11.18.2020 12:33	11.25.2020 00:20	11.25.2020 00:25	11.25.2020 00:31	11.25.2020 01:02
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		4820 100	459 10.0	630 10.0	13.0 9.98	16.3 9.92	<9.90 9.90
TPH by SW8015 Mod	<i>Extracted:</i>	11.12.2020 18:09					
	<i>Analyzed:</i>	11.13.2020 03:12					
	<i>Units/RL:</i>	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1					
Diesel Range Organics (DRO)		<50.1 50.1					
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1					
Total TPH		<50.1 50.1					

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677769

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100570 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.25.2020 15:30
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677769-018	677769-022	677769-023	677769-024	677769-025	677769-026
	<i>Field Id:</i>	SS-21 0-2'	SS-22 0-2'	SS-22 2-4'	SS-22 4-6'	SS-22 6-8'	SS-22 8-9'
	<i>Depth:</i>	0-2 ft	0-2 ft	2-4 ft	4-6 ft	6-8 ft	8-9 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.11.2020 09:39	11.11.2020 09:52	11.11.2020 09:54	11.11.2020 09:56	11.11.2020 09:58	11.11.2020 10:00
BTEX by EPA 8021B	<i>Extracted:</i>	11.12.2020 17:37	11.12.2020 17:37				
	<i>Analyzed:</i>	11.13.2020 08:32	11.13.2020 08:54				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Benzene		<0.00202 0.00202	<0.00200 0.00200				
Toluene		<0.00202 0.00202	<0.00200 0.00200				
Ethylbenzene		<0.00202 0.00202	<0.00200 0.00200				
m,p-Xylenes		<0.00403 0.00403	<0.00401 0.00401				
o-Xylene		<0.00202 0.00202	<0.00200 0.00200				
Total Xylenes		<0.00202 0.00202	<0.00200 0.00200				
Total BTEX		<0.00202 0.00202	<0.00200 0.00200				
Chloride by EPA 300	<i>Extracted:</i>	11.12.2020 18:00	11.12.2020 18:00	11.17.2020 17:01	11.24.2020 17:00	11.24.2020 17:00	11.24.2020 17:00
	<i>Analyzed:</i>	11.12.2020 20:34	11.12.2020 20:51	11.18.2020 12:39	11.25.2020 01:17	11.25.2020 01:22	11.25.2020 01:27
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		26.4 10.0	6950 100	7240 50.0	2940 49.5	520 9.98	22.5 9.90
TPH by SW8015 Mod	<i>Extracted:</i>	11.12.2020 18:09	11.12.2020 18:09				
	<i>Analyzed:</i>	11.13.2020 03:33	11.13.2020 03:53				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<50.3 50.3	<49.9 49.9				
Diesel Range Organics (DRO)		<50.3 50.3	<49.9 49.9				
Motor Oil Range Hydrocarbons (MRO)		<50.3 50.3	<49.9 49.9				
Total TPH		<50.3 50.3	<49.9 49.9				

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677769

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100570 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.25.2020 15:30
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677769-027	677769-030	677769-031	677769-032	677769-033	677769-034
	<i>Field Id:</i>	SS-23 0-2'	SS-24 0-2'	SS-24 2-4'	SS-24 4-6'	SS-24 6-8'	SS-242 8-10'
	<i>Depth:</i>	0-2 ft	0-2 ft	2-4 ft	4-6 ft	6-8 ft	8-10 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.11.2020 10:06	11.11.2020 10:16	11.11.2020 10:18	11.11.2020 10:20	11.11.2020 10:22	11.11.2020 10:24
BTEX by EPA 8021B	<i>Extracted:</i>	11.12.2020 17:37	** ** ** **				
	<i>Analyzed:</i>	11.13.2020 09:17	11.13.2020 09:39				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Benzene		<0.00200 0.00200	<0.00200 0.00200				
Toluene		<0.00200 0.00200	<0.00200 0.00200				
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200				
m,p-Xylenes		<0.00399 0.00399	<0.00399 0.00399				
o-Xylene		<0.00200 0.00200	<0.00200 0.00200				
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200				
Total BTEX		<0.00200 0.00200	<0.00200 0.00200				
Chloride by EPA 300	<i>Extracted:</i>	11.12.2020 18:00	11.12.2020 18:00	11.17.2020 17:01	11.24.2020 17:00	11.24.2020 17:00	11.24.2020 17:00
	<i>Analyzed:</i>	11.12.2020 20:56	11.12.2020 21:02	11.18.2020 12:45	11.25.2020 01:33	11.25.2020 01:48	11.25.2020 01:53
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		11.2 9.90	5000 99.8	8040 50.2	1650 49.5	116 9.94	3700 50.2
TPH by SW8015 Mod	<i>Extracted:</i>	11.12.2020 18:09	11.12.2020 18:09				
	<i>Analyzed:</i>	11.13.2020 04:13	11.13.2020 04:33				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1	<49.8 49.8				
Diesel Range Organics (DRO)		<50.1 50.1	<49.8 49.8				
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1	<49.8 49.8				
Total TPH		<50.1 50.1	<49.8 49.8				

Jessica Kramer

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677769

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100570 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.25.2020 15:30
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677769-035	677769-036	677769-037	677769-040	677769-046	677769-048
	<i>Field Id:</i>	SS-24 10-12'	SS-24 12-13'	SS-25 0-2'	SS-26 0-2'	SS-27 0-2'	SS-28 0-2'
	<i>Depth:</i>	10-12 ft	12-13 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.11.2020 10:26	11.11.2020 10:28	11.11.2020 10:32	11.11.2020 10:42	11.11.2020 10:56	11.11.2020 11:04
BTEX by EPA 8021B	<i>Extracted:</i>			11.12.2020 17:37	11.12.2020 17:37	11.12.2020 17:37	11.12.2020 17:37
	<i>Analyzed:</i>			11.13.2020 10:02	11.13.2020 10:24	11.13.2020 10:46	11.13.2020 11:09
	<i>Units/RL:</i>			mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene				<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198
Toluene				<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198
Ethylbenzene				<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198
m,p-Xylenes				<0.00398 0.00398	<0.00397 0.00397	<0.00398 0.00398	<0.00397 0.00397
o-Xylene				<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198
Total Xylenes				<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198
Total BTEX				<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198
Chloride by EPA 300	<i>Extracted:</i>	11.24.2020 17:00	11.24.2020 17:00	11.12.2020 18:00	11.12.2020 18:00	11.12.2020 18:00	11.12.2020 18:00
	<i>Analyzed:</i>	11.25.2020 01:58	11.25.2020 02:04	11.12.2020 21:07	11.12.2020 21:13	11.12.2020 21:18	11.12.2020 21:35
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		2270 50.4	2350 50.1	18.6 9.98	21.6 10.0	<10.1 10.1	9030 202
TPH by SW8015 Mod	<i>Extracted:</i>			11.12.2020 18:09	11.12.2020 18:09	11.12.2020 18:11	11.12.2020 18:11
	<i>Analyzed:</i>			11.13.2020 04:53	11.13.2020 05:13	11.13.2020 01:31	11.13.2020 02:32
	<i>Units/RL:</i>			mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)				<50.2 50.2	<50.3 50.3	<50.2 50.2	<49.8 49.8
Diesel Range Organics (DRO)				<50.2 50.2	<50.3 50.3	<50.2 50.2	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)				<50.2 50.2	<50.3 50.3	<50.2 50.2	<49.8 49.8
Total TPH				<50.2 50.2	<50.3 50.3	<50.2 50.2	<49.8 49.8

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Certificate of Analysis Summary 677769

KJ Environmental & Civil Engineering, Aubrey, TX



Project Name: OWL 100570 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.25.2020 15:30
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677769-049	677769-050	677769-051	677769-052	677769-053	677769-057
	<i>Field Id:</i>	SS-28 2-4'	SS-28 4-6'	SS-28 8-10'	SS-28 10-11'	SS-29 0-2'	SS-30 0-2'
	<i>Depth:</i>	2-4 ft	4-6 ft	8-10 ft	10-11 ft	0-2 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.11.2020 11:06	11.11.2020 11:08	11.11.2020 11:12	11.11.2020 11:14	11.11.2020 11:22	11.11.2020 11:34
BTEX by EPA 8021B	<i>Extracted:</i>					11.12.2020 17:37	11.13.2020 06:53
	<i>Analyzed:</i>					11.13.2020 11:31	11.13.2020 10:34
	<i>Units/RL:</i>					mg/kg RL	mg/kg RL
Benzene						<0.00200 0.00200	<0.00200 0.00200
Toluene						<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene						<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes						<0.00399 0.00399	<0.00400 0.00400
o-Xylene						<0.00200 0.00200	<0.00200 0.00200
Total Xylenes						<0.00200 0.00200	<0.00200 0.00200
Total BTEX						<0.00200 0.00200	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	11.17.2020 17:01	11.24.2020 17:00	11.24.2020 17:00	11.24.2020 17:00	11.12.2020 18:00	11.12.2020 18:00
	<i>Analyzed:</i>	11.18.2020 12:51	11.25.2020 02:09	11.25.2020 02:14	11.25.2020 02:30	11.12.2020 21:40	11.12.2020 21:57
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		10100 200	6910 49.7	5470 49.9	3680 50.1	19.6 10.1	13.6 9.92
TPH by SW8015 Mod	<i>Extracted:</i>					11.12.2020 18:11	11.12.2020 18:11
	<i>Analyzed:</i>					11.13.2020 02:52	11.13.2020 03:12
	<i>Units/RL:</i>					mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)						<49.9 49.9	<50.1 50.1
Diesel Range Organics (DRO)						<49.9 49.9	<50.1 50.1
Motor Oil Range Hydrocarbons (MRO)						<49.9 49.9	<50.1 50.1
Total TPH						<49.9 49.9	<50.1 50.1

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677769

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100570 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.25.2020 15:30
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677769-059	677769-063	677769-065	677769-067	677769-068	677769-069
	<i>Field Id:</i>	SS-31 0-2'	SS-32 0-2'	SS-33 0-2'	SS-34 0-2'	SS-34 2-4'	SS-35 0-2'
	<i>Depth:</i>	0-2 ft	0-2 ft	0-2 ft	0-2 ft	2-4 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.11.2020 11:40	11.11.2020 12:00	11.11.2020 12:08	11.11.2020 12:14	11.11.2020 12:16	11.11.2020 12:30
BTEX by EPA 8021B	<i>Extracted:</i>	11.13.2020 06:53	11.13.2020 06:53	11.13.2020 06:53	11.13.2020 06:53		11.13.2020 06:53
	<i>Analyzed:</i>	11.13.2020 10:57	11.13.2020 11:19	11.13.2020 11:41	11.13.2020 12:04		11.13.2020 12:26
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		mg/kg RL
Benzene		<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200		<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200		<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200		<0.00200 0.00200
m,p-Xylenes		<0.00399 0.00399	<0.00403 0.00403	<0.00398 0.00398	<0.00401 0.00401		<0.00401 0.00401
o-Xylene		<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200		<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200		<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200		<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	11.12.2020 18:00	11.12.2020 18:00	11.12.2020 18:00	11.12.2020 18:00	11.17.2020 17:01	11.12.2020 18:00
	<i>Analyzed:</i>	11.12.2020 22:02	11.12.2020 22:08	11.12.2020 22:13	11.12.2020 22:19	11.18.2020 12:57	11.12.2020 22:24
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		13.0 9.92	48.1 10.0	35.0 10.0	6960 D 100	4440 49.5	14.7 9.90
TPH by SW8015 Mod	<i>Extracted:</i>	11.12.2020 18:11	11.12.2020 18:11	11.12.2020 18:11	11.12.2020 18:11		11.12.2020 18:11
	<i>Analyzed:</i>	11.13.2020 03:33	11.13.2020 03:53	11.13.2020 04:13	11.13.2020 04:33		11.13.2020 04:53
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<50.3 50.3	<49.8 49.8	<49.9 49.9		<50.0 50.0
Diesel Range Organics (DRO)		<50.2 50.2	<50.3 50.3	<49.8 49.8	<49.9 49.9		<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	<50.3 50.3	<49.8 49.8	<49.9 49.9		<50.0 50.0
Total TPH		<50.2 50.2	<50.3 50.3	<49.8 49.8	<49.9 49.9		<50.0 50.0

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Analytical Report 677769

for

KJ Environmental & Civil Engineering

Project Manager: Travis Reddick

OWL 100570 D

11.25.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



11.25.2020

Project Manager: **Travis Reddick**
KJ Environmental & Civil Engineering
500 Moseley Rd
Aubrey, TX 76227

Reference: Eurofins Xenco, LLC Report No(s): **677769**
OWL 100570 D
Project Address: Lea County, New Mexico

Travis Reddick:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 677769. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 677769 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 677769

KJ Environmental & Civil Engineering, Aubrey, TX

OWL 100570 D

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-17 0-2'	S	11.11.2020 08:45	0 - 2 ft	677769-001
SS-18 0-2'	S	11.11.2020 09:01	0 - 2 ft	677769-005
SS-18 2-4'	S	11.11.2020 09:03	2 - 4 ft	677769-006
SS-18 4-6'	S	11.11.2020 09:05	4 - 6 ft	677769-007
SS-18 6-8'	S	11.11.2020 09:07	6 - 8 ft	677769-008
SS-19 0-2'	S	11.11.2020 09:12	0 - 2 ft	677769-009
SS-20 0-2'	S	11.11.2020 09:22	0 - 2 ft	677769-012
SS-20 2-4'	S	11.11.2020 09:24	2 - 4 ft	677769-013
SS-20 4-6'	S	11.11.2020 09:26	4 - 6 ft	677769-014
SS-20 6-8'	S	11.11.2020 09:28	6 - 8 ft	677769-015
SS-20 8-10'	S	11.11.2020 09:30	8 - 10 ft	677769-016
SS-20 10-11'	S	11.11.2020 09:32	10 - 11 ft	677769-017
SS-21 0-2'	S	11.11.2020 09:39	0 - 2 ft	677769-018
SS-22 0-2'	S	11.11.2020 09:52	0 - 2 ft	677769-022
SS-22 2-4'	S	11.11.2020 09:54	2 - 4 ft	677769-023
SS-22 4-6'	S	11.11.2020 09:56	4 - 6 ft	677769-024
SS-22 6-8'	S	11.11.2020 09:58	6 - 8 ft	677769-025
SS-22 8-9'	S	11.11.2020 10:00	8 - 9 ft	677769-026
SS-23 0-2'	S	11.11.2020 10:06	0 - 2 ft	677769-027
SS-24 0-2'	S	11.11.2020 10:16	0 - 2 ft	677769-030
SS-24 2-4'	S	11.11.2020 10:18	2 - 4 ft	677769-031
SS-24 4-6'	S	11.11.2020 10:20	4 - 6 ft	677769-032
SS-24 6-8'	S	11.11.2020 10:22	6 - 8 ft	677769-033
SS-242 8-10'	S	11.11.2020 10:24	8 - 10 ft	677769-034
SS-24 10-12'	S	11.11.2020 10:26	10 - 12 ft	677769-035
SS-24 12-13'	S	11.11.2020 10:28	12 - 13 ft	677769-036
SS-25 0-2'	S	11.11.2020 10:32	0 - 2 ft	677769-037
SS-26 0-2'	S	11.11.2020 10:42	0 - 2 ft	677769-040
SS-27 0-2'	S	11.11.2020 10:56	0 - 2 ft	677769-046
SS-28 0-2'	S	11.11.2020 11:04	0 - 2 ft	677769-048
SS-28 2-4'	S	11.11.2020 11:06	2 - 4 ft	677769-049
SS-28 4-6'	S	11.11.2020 11:08	4 - 6 ft	677769-050
SS-28 8-10'	S	11.11.2020 11:12	8 - 10 ft	677769-051
SS-28 10-11'	S	11.11.2020 11:14	10 - 11 ft	677769-052
SS-29 0-2'	S	11.11.2020 11:22	0 - 2 ft	677769-053
SS-30 0-2'	S	11.11.2020 11:34	0 - 2 ft	677769-057
SS-31 0-2'	S	11.11.2020 11:40	0 - 2 ft	677769-059
SS-32 0-2'	S	11.11.2020 12:00	0 - 2 ft	677769-063
SS-33 0-2'	S	11.11.2020 12:08	0 - 2 ft	677769-065
SS-34 0-2'	S	11.11.2020 12:14	0 - 2 ft	677769-067
SS-34 2-4'	S	11.11.2020 12:16	2 - 4 ft	677769-068
SS-35 0-2'	S	11.11.2020 12:30	0 - 2 ft	677769-069
SS-17 2-4'	S	11.11.2020 08:47	2 - 4 ft	Not Analyzed



Sample Cross Reference 677769

KJ Environmental & Civil Engineering, Aubrey, TX

OWL 100570 D

SS-17 4-6'	S	11.11.2020 08:49	4 - 6 ft	Not Analyzed
SS-17 6-8'	S	11.11.2020 08:51	6 - 8 ft	Not Analyzed
SS-19 2-4'	S	11.11.2020 09:14	2 - 4 ft	Not Analyzed
SS-19 4-5'	S	11.11.2020 09:16	4 - 5 ft	Not Analyzed
SS-21 2-4'	S	11.11.2020 09:41	2 - 4 ft	Not Analyzed
SS-21 4-6'	S	11.11.2020 09:43	4 - 6 ft	Not Analyzed
SS-21 6-8'	S	11.11.2020 09:45	6 - 8 ft	Not Analyzed
SS-23 2-4'	S	11.11.2020 10:08	2 - 4 ft	Not Analyzed
SS-23 4-6'	S	11.11.2020 10:10	4 - 6 ft	Not Analyzed
SS-25 2-4'	S	11.11.2020 10:34	2 - 4 ft	Not Analyzed
SS-25 4-6'	S	11.11.2020 10:36	4 - 6 ft	Not Analyzed
SS-26 2-4	S	11.11.2020 10:44	2 - 4 ft	Not Analyzed
SS-26 4-6'	S	11.11.2020 10:46	4 - 6 ft	Not Analyzed
SS-26 6-8'	S	11.11.2020 10:48	6 - 8 ft	Not Analyzed
SS-26 8-10'	S	11.11.2020 10:50	8 - 10 ft	Not Analyzed
SS-26 10-11'	S	11.11.2020 10:52	10 - 11 ft	Not Analyzed
SS-27 2-4'	S	11.11.2020 10:58	2 - 4 ft	Not Analyzed
SS-29 2-4'	S	11.11.2020 11:24	2 - 4 ft	Not Analyzed
SS-29 4-6'	S	11.11.2020 11:26	4 - 6 ft	Not Analyzed
SS-29 6-7'	S	11.11.2020 11:28	6 - 7 ft	Not Analyzed
SS-30 2-4'	S	11.11.2020 11:36	2 - 4 ft	Not Analyzed
SS-31 2-4'	S	11.11.2020 11:42	2 - 4 ft	Not Analyzed
SS-31 4-6'	S	11.11.2020 11:44	4 - 6 ft	Not Analyzed
SS-31 6-7'	S	11.11.2020 11:46	6 - 7 ft	Not Analyzed
SS-32 2-4'	S	11.11.2020 12:02	2 - 4 ft	Not Analyzed
SS-33 2-4'	S	11.11.2020 12:10	2 - 4 ft	Not Analyzed
SS-35 2-4'	S	11.11.2020 12:32	2 - 4 ft	Not Analyzed



CASE NARRATIVE

Client Name: KJ Environmental & Civil Engineering

Project Name: OWL 100570 D

Project ID:
Work Order Number(s): 677769

Report Date: 11.25.2020
Date Received: 11.12.2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-17 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-001 Date Collected: 11.11.2020 08:45 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.5	9.94	mg/kg	11.12.2020 20:02		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:09 % Moisture:
 Seq Number: 3142195 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 01:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 01:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 01:31	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 01:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	11.13.2020 01:31	
o-Terphenyl	84-15-1	94	%	70-135	11.13.2020 01:31	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-17 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-001 Date Collected: 11.11.2020 08:45 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 06:53 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 10:12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 10:12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 10:12	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 10:12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 10:12	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 10:12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 10:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	70-130	11.13.2020 10:12	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 10:12	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-18 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-005 Date Collected: 11.11.2020 09:01 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5010	100	mg/kg	11.12.2020 20:18		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:09 % Moisture:
 Seq Number: 3142195 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.13.2020 02:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.13.2020 02:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.13.2020 02:32	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.13.2020 02:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	11.13.2020 02:32	
o-Terphenyl	84-15-1	94	%	70-135	11.13.2020 02:32	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-18 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-005 Date Collected: 11.11.2020 09:01 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 17:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.13.2020 06:05	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.13.2020 06:05	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.13.2020 06:05	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.13.2020 06:05	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.13.2020 06:05	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	11.13.2020 06:05	U	1
Total BTEX		<0.00202	0.00202	mg/kg	11.13.2020 06:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	11.13.2020 06:05	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 06:05	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-18 2-4'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-006	Date Collected: 11.11.2020 09:03	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 17:01	Basis: Wet Weight
Seq Number: 3142643		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5800	50.3	mg/kg	11.18.2020 12:27		5



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-18 4-6'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-007	Date Collected: 11.11.2020 09:05	Sample Depth: 4 - 6 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 16:36	Basis: Wet Weight
Seq Number: 3143299		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5220	49.6	mg/kg	11.25.2020 00:10		5



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-18 6-8'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-008	Date Collected: 11.11.2020 09:07	Sample Depth: 6 - 8 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 16:36	Basis: Wet Weight
Seq Number: 3143299		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8250	50.1	mg/kg	11.25.2020 00:15		5



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-19 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-009 Date Collected: 11.11.2020 09:12 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	585	10.1	mg/kg	11.12.2020 20:24		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:09 % Moisture:
 Seq Number: 3142195 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 02:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.13.2020 02:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.13.2020 02:52	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.13.2020 02:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-135	11.13.2020 02:52	
o-Terphenyl	84-15-1	122	%	70-135	11.13.2020 02:52	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-19 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-009 Date Collected: 11.11.2020 09:12 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 17:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 06:27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 06:27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 06:27	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 06:27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 06:27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 06:27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 06:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.13.2020 06:27	
4-Bromofluorobenzene	460-00-4	106	%	70-130	11.13.2020 06:27	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-20 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-012 Date Collected: 11.11.2020 09:22 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4820	100	mg/kg	11.12.2020 20:29		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:09 % Moisture:
 Seq Number: 3142195 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.13.2020 03:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.13.2020 03:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.13.2020 03:12	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.13.2020 03:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	130	%	70-135	11.13.2020 03:12	
o-Terphenyl	84-15-1	106	%	70-135	11.13.2020 03:12	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX
 OWL 100570 D

Sample Id: **SS-20 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-012 Date Collected: 11.11.2020 09:22 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 17:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 08:09	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 08:09	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 08:09	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 08:09	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 08:09	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 08:09	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 08:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.13.2020 08:09	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.13.2020 08:09	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-20 2-4'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-013	Date Collected: 11.11.2020 09:24	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 17:01	Basis: Wet Weight
Seq Number: 3142643		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	459	10.0	mg/kg	11.18.2020 12:33		1



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-20 4-6'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-014	Date Collected: 11.11.2020 09:26	Sample Depth: 4 - 6 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 16:36	Basis: Wet Weight
Seq Number: 3143299		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	630	10.0	mg/kg	11.25.2020 00:20		1



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-20 6-8'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-015	Date Collected: 11.11.2020 09:28	Sample Depth: 6 - 8 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 16:36	Basis: Wet Weight
Seq Number: 3143299		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.0	9.98	mg/kg	11.25.2020 00:25		1



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-20 8-10'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-016	Date Collected: 11.11.2020 09:30	Sample Depth: 8 - 10 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 16:36	Basis: Wet Weight
Seq Number: 3143299		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.3	9.92	mg/kg	11.25.2020 00:31		1



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-20 10-11'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-017 Date Collected: 11.11.2020 09:32 Sample Depth: 10 - 11 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.24.2020 17:00 % Moisture:
 Seq Number: 3143301 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.90	9.90	mg/kg	11.25.2020 01:02	U	1



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-21 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-018 Date Collected: 11.11.2020 09:39 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	26.4	10.0	mg/kg	11.12.2020 20:34		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:09 % Moisture:
 Seq Number: 3142195 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.13.2020 03:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.13.2020 03:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.13.2020 03:33	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.13.2020 03:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	11.13.2020 03:33	
o-Terphenyl	84-15-1	118	%	70-135	11.13.2020 03:33	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-21 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-018 Date Collected: 11.11.2020 09:39 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 17:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.13.2020 08:32	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.13.2020 08:32	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.13.2020 08:32	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.13.2020 08:32	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.13.2020 08:32	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	11.13.2020 08:32	U	1
Total BTEX		<0.00202	0.00202	mg/kg	11.13.2020 08:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	11.13.2020 08:32	
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.13.2020 08:32	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-22 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-022 Date Collected: 11.11.2020 09:52 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6950	100	mg/kg	11.12.2020 20:51		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:09 % Moisture:
 Seq Number: 3142195 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 03:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 03:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 03:53	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 03:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	11.13.2020 03:53	
o-Terphenyl	84-15-1	106	%	70-135	11.13.2020 03:53	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-22 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-022 Date Collected: 11.11.2020 09:52 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 17:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 08:54	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 08:54	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 08:54	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 08:54	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 08:54	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 08:54	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 08:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	11.13.2020 08:54	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.13.2020 08:54	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-22 2-4'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-023	Date Collected: 11.11.2020 09:54	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 17:01	Basis: Wet Weight
Seq Number: 3142643		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7240	50.0	mg/kg	11.18.2020 12:39		5



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-22 4-6'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-024	Date Collected: 11.11.2020 09:56	Sample Depth: 4 - 6 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 17:00	Basis: Wet Weight
Seq Number: 3143301		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2940	49.5	mg/kg	11.25.2020 01:17		5



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-22 6-8'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-025	Date Collected: 11.11.2020 09:58	Sample Depth: 6 - 8 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 17:00	Basis: Wet Weight
Seq Number: 3143301		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	520	9.98	mg/kg	11.25.2020 01:22		1



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-22 8-9'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-026	Date Collected: 11.11.2020 10:00	Sample Depth: 8 - 9 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 17:00	Basis: Wet Weight
Seq Number: 3143301		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22.5	9.90	mg/kg	11.25.2020 01:27		1



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-23 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-027 Date Collected: 11.11.2020 10:06 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.2	9.90	mg/kg	11.12.2020 20:56		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:09 % Moisture:
 Seq Number: 3142195 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.13.2020 04:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.13.2020 04:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.13.2020 04:13	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.13.2020 04:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	126	%	70-135	11.13.2020 04:13	
o-Terphenyl	84-15-1	102	%	70-135	11.13.2020 04:13	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-23 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-027 Date Collected: 11.11.2020 10:06 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 17:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 09:17	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 09:17	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 09:17	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.13.2020 09:17	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 09:17	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 09:17	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 09:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	70-130	11.13.2020 09:17	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.13.2020 09:17	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-24 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-030 Date Collected: 11.11.2020 10:16 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5000	99.8	mg/kg	11.12.2020 21:02		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:09 % Moisture:
 Seq Number: 3142195 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.13.2020 04:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.13.2020 04:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.13.2020 04:33	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.13.2020 04:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	11.13.2020 04:33	
o-Terphenyl	84-15-1	96	%	70-135	11.13.2020 04:33	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-24 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-030 Date Collected: 11.11.2020 10:16 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 15:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 09:39	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 09:39	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 09:39	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.13.2020 09:39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 09:39	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 09:39	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 09:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	11.13.2020 09:39	
1,4-Difluorobenzene	540-36-3	99	%	70-130	11.13.2020 09:39	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-24 2-4'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-031	Date Collected: 11.11.2020 10:18	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 17:01	Basis: Wet Weight
Seq Number: 3142643		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8040	50.2	mg/kg	11.18.2020 12:45		5



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-24 4-6'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-032	Date Collected: 11.11.2020 10:20	Sample Depth: 4 - 6 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 17:00	Basis: Wet Weight
Seq Number: 3143301		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1650	49.5	mg/kg	11.25.2020 01:33		5



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-24 6-8'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-033	Date Collected: 11.11.2020 10:22	Sample Depth: 6 - 8 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 17:00	Basis: Wet Weight
Seq Number: 3143301		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	116	9.94	mg/kg	11.25.2020 01:48		1



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-242 8-10'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-034	Date Collected: 11.11.2020 10:24	Sample Depth: 8 - 10 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 17:00	Basis: Wet Weight
Seq Number: 3143301		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3700	50.2	mg/kg	11.25.2020 01:53		5



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-24 10-12'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-035	Date Collected: 11.11.2020 10:26	Sample Depth: 10 - 12 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 17:00	Basis: Wet Weight
Seq Number: 3143301		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2270	50.4	mg/kg	11.25.2020 01:58		5



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-24 12-13'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-036	Date Collected: 11.11.2020 10:28	Sample Depth: 12 - 13 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 17:00	Basis: Wet Weight
Seq Number: 3143301		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2350	50.1	mg/kg	11.25.2020 02:04		5



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-25 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-037 Date Collected: 11.11.2020 10:32 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.6	9.98	mg/kg	11.12.2020 21:07		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:09 % Moisture:
 Seq Number: 3142195 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 04:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.13.2020 04:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.13.2020 04:53	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.13.2020 04:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	132	%	70-135	11.13.2020 04:53	
o-Terphenyl	84-15-1	114	%	70-135	11.13.2020 04:53	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-25 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-037 Date Collected: 11.11.2020 10:32 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 17:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 10:02	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 10:02	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 10:02	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 10:02	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 10:02	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 10:02	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 10:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	127	%	70-130	11.13.2020 10:02	
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.13.2020 10:02	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-26 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-040 Date Collected: 11.11.2020 10:42 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21.6	10.0	mg/kg	11.12.2020 21:13		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:09 % Moisture:
 Seq Number: 3142195 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.13.2020 05:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.13.2020 05:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.13.2020 05:13	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.13.2020 05:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	11.13.2020 05:13	
o-Terphenyl	84-15-1	100	%	70-135	11.13.2020 05:13	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-26 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-040 Date Collected: 11.11.2020 10:42 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 17:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.13.2020 10:24	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.13.2020 10:24	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.13.2020 10:24	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.13.2020 10:24	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.13.2020 10:24	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.13.2020 10:24	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.13.2020 10:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.13.2020 10:24	
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.13.2020 10:24	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-27 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-046 Date Collected: 11.11.2020 10:56 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.1	10.1	mg/kg	11.12.2020 21:18	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:11 % Moisture:
 Seq Number: 3142196 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 01:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.13.2020 01:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.13.2020 01:31	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.13.2020 01:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	11.13.2020 01:31	
o-Terphenyl	84-15-1	94	%	70-135	11.13.2020 01:31	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX
 OWL 100570 D

Sample Id: **SS-27 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-046 Date Collected: 11.11.2020 10:56 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 17:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 10:46	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 10:46	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 10:46	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 10:46	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 10:46	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 10:46	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 10:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	11.13.2020 10:46	
4-Bromofluorobenzene	460-00-4	115	%	70-130	11.13.2020 10:46	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-28 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-048 Date Collected: 11.11.2020 11:04 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9030	202	mg/kg	11.12.2020 21:35		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:11 % Moisture:
 Seq Number: 3142196 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.13.2020 02:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.13.2020 02:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.13.2020 02:32	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.13.2020 02:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	11.13.2020 02:32	
o-Terphenyl	84-15-1	110	%	70-135	11.13.2020 02:32	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-28 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-048 Date Collected: 11.11.2020 11:04 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 17:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.13.2020 11:09	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.13.2020 11:09	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.13.2020 11:09	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.13.2020 11:09	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.13.2020 11:09	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.13.2020 11:09	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.13.2020 11:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	11.13.2020 11:09	
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.13.2020 11:09	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-28 2-4'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-049	Date Collected: 11.11.2020 11:06	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 17:01	Basis: Wet Weight
Seq Number: 3142643		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10100	200	mg/kg	11.18.2020 12:51		20



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-28 4-6'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-050	Date Collected: 11.11.2020 11:08	Sample Depth: 4 - 6 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 17:00	Basis: Wet Weight
Seq Number: 3143301		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6910	49.7	mg/kg	11.25.2020 02:09		5



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-28 8-10'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-051	Date Collected: 11.11.2020 11:12	Sample Depth: 8 - 10 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 17:00	Basis: Wet Weight
Seq Number: 3143301		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5470	49.9	mg/kg	11.25.2020 02:14		5



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-28 10-11'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-052	Date Collected: 11.11.2020 11:14	Sample Depth: 10 - 11 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 17:00	Basis: Wet Weight
Seq Number: 3143301		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3680	50.1	mg/kg	11.25.2020 02:30		5



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-29 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-053 Date Collected: 11.11.2020 11:22 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.6	10.1	mg/kg	11.12.2020 21:40		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:11 % Moisture:
 Seq Number: 3142196 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 02:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 02:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 02:52	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 02:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	11.13.2020 02:52	
o-Terphenyl	84-15-1	116	%	70-135	11.13.2020 02:52	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX
 OWL 100570 D

Sample Id: **SS-29 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-053 Date Collected: 11.11.2020 11:22 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 17:37 % Moisture:
 Seq Number: 3142212 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 11:31	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 11:31	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 11:31	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.13.2020 11:31	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 11:31	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 11:31	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 11:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.13.2020 11:31	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.13.2020 11:31	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-30 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-057 Date Collected: 11.11.2020 11:34 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.6	9.92	mg/kg	11.12.2020 21:57		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:11 % Moisture:
 Seq Number: 3142196 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.13.2020 03:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.13.2020 03:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.13.2020 03:12	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.13.2020 03:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	11.13.2020 03:12	
o-Terphenyl	84-15-1	102	%	70-135	11.13.2020 03:12	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-30 0-2'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-057	Date Collected: 11.11.2020 11:34	Sample Depth: 0 - 2 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.13.2020 06:53	Basis: Wet Weight
Seq Number: 3142232		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 10:34	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 10:34	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 10:34	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	11.13.2020 10:34	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 10:34	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 10:34	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 10:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 10:34	
4-Bromofluorobenzene	460-00-4	91	%	70-130	11.13.2020 10:34	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-31 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-059 Date Collected: 11.11.2020 11:40 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.0	9.92	mg/kg	11.12.2020 22:02		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:11 % Moisture:
 Seq Number: 3142196 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 03:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.13.2020 03:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.13.2020 03:33	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.13.2020 03:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-135	11.13.2020 03:33	
o-Terphenyl	84-15-1	114	%	70-135	11.13.2020 03:33	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-31 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-059 Date Collected: 11.11.2020 11:40 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 06:53 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 10:57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 10:57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 10:57	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.13.2020 10:57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 10:57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 10:57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 10:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.13.2020 10:57	
4-Bromofluorobenzene	460-00-4	92	%	70-130	11.13.2020 10:57	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-32 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-063 Date Collected: 11.11.2020 12:00 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	48.1	10.0	mg/kg	11.12.2020 22:08		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:11 % Moisture:
 Seq Number: 3142196 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.13.2020 03:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.13.2020 03:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.13.2020 03:53	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.13.2020 03:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	11.13.2020 03:53	
o-Terphenyl	84-15-1	118	%	70-135	11.13.2020 03:53	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-32 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-063 Date Collected: 11.11.2020 12:00 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 06:53 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.13.2020 11:19	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.13.2020 11:19	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.13.2020 11:19	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.13.2020 11:19	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.13.2020 11:19	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	11.13.2020 11:19	U	1
Total BTEX		<0.00202	0.00202	mg/kg	11.13.2020 11:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	11.13.2020 11:19	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.13.2020 11:19	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-33 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-065 Date Collected: 11.11.2020 12:08 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	35.0	10.0	mg/kg	11.12.2020 22:13		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:11 % Moisture:
 Seq Number: 3142196 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.13.2020 04:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.13.2020 04:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.13.2020 04:13	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.13.2020 04:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	11.13.2020 04:13	
o-Terphenyl	84-15-1	118	%	70-135	11.13.2020 04:13	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-33 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-065 Date Collected: 11.11.2020 12:08 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 06:53 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 11:41	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 11:41	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 11:41	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 11:41	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 11:41	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 11:41	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 11:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	70-130	11.13.2020 11:41	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 11:41	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-34 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-067 Date Collected: 11.11.2020 12:14 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6960	100	mg/kg	11.13.2020 13:23	D	10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:11 % Moisture:
 Seq Number: 3142196 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 04:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 04:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 04:33	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 04:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	11.13.2020 04:33	
o-Terphenyl	84-15-1	96	%	70-135	11.13.2020 04:33	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-34 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-067 Date Collected: 11.11.2020 12:14 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 06:53 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 12:04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 12:04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 12:04	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 12:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 12:04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 12:04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 12:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	88	%	70-130	11.13.2020 12:04	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.13.2020 12:04	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: SS-34 2-4'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677769-068	Date Collected: 11.11.2020 12:16	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 17:01	Basis: Wet Weight
Seq Number: 3142643		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4440	49.5	mg/kg	11.18.2020 12:57		5



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-35 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-069 Date Collected: 11.11.2020 12:30 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.12.2020 18:00 % Moisture:
 Seq Number: 3142191 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.7	9.90	mg/kg	11.12.2020 22:24		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.12.2020 18:11 % Moisture:
 Seq Number: 3142196 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.13.2020 04:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.13.2020 04:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.13.2020 04:53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.13.2020 04:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-135	11.13.2020 04:53	
o-Terphenyl	84-15-1	116	%	70-135	11.13.2020 04:53	



Certificate of Analytical Results 677769

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100570 D

Sample Id: **SS-35 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677769-069 Date Collected: 11.11.2020 12:30 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 06:53 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 12:26	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 12:26	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 12:26	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 12:26	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 12:26	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 12:26	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 12:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	86	%	70-130	11.13.2020 12:26	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.13.2020 12:26	



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



KJ Environmental & Civil Engineering
OWL 100570 D

Analytical Method: Chloride by EPA 300

Seq Number: 3142191

MB Sample Id: 7715117-1-BLK

Matrix: Solid

LCS Sample Id: 7715117-1-BKS

Prep Method: E300P

Date Prep: 11.12.2020

LCSD Sample Id: 7715117-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	256	102	251	100	90-110	2	20	mg/kg	11.12.2020 19:51	

Analytical Method: Chloride by EPA 300

Seq Number: 3142643

MB Sample Id: 7715379-1-BLK

Matrix: Solid

LCS Sample Id: 7715379-1-BKS

Prep Method: E300P

Date Prep: 11.17.2020

LCSD Sample Id: 7715379-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	256	102	256	102	90-110	0	20	mg/kg	11.18.2020 11:03	

Analytical Method: Chloride by EPA 300

Seq Number: 3143299

MB Sample Id: 7715948-1-BLK

Matrix: Solid

LCS Sample Id: 7715948-1-BKS

Prep Method: E300P

Date Prep: 11.24.2020

LCSD Sample Id: 7715948-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	247	99	243	97	90-110	2	20	mg/kg	11.24.2020 22:01	

Analytical Method: Chloride by EPA 300

Seq Number: 3143301

MB Sample Id: 7715951-1-BLK

Matrix: Solid

LCS Sample Id: 7715951-1-BKS

Prep Method: E300P

Date Prep: 11.24.2020

LCSD Sample Id: 7715951-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	245	98	246	98	90-110	0	20	mg/kg	11.25.2020 00:51	

Analytical Method: Chloride by EPA 300

Seq Number: 3142191

Parent Sample Id: 677769-001

Matrix: Soil

MS Sample Id: 677769-001 S

Prep Method: E300P

Date Prep: 11.12.2020

MSD Sample Id: 677769-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	12.5	199	208	98	211	99	90-110	1	20	mg/kg	11.12.2020 20:07	

Analytical Method: Chloride by EPA 300

Seq Number: 3142191

Parent Sample Id: 677769-046

Matrix: Soil

MS Sample Id: 677769-046 S

Prep Method: E300P

Date Prep: 11.12.2020

MSD Sample Id: 677769-046 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<9.98	200	199	100	199	100	90-110	0	20	mg/kg	11.12.2020 21:24	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
 OWL 100570 D

Analytical Method: Chloride by EPA 300

Seq Number: 3142643
 Parent Sample Id: 677486-009

Matrix: Soil
 MS Sample Id: 677486-009 S

Prep Method: E300P
 Date Prep: 11.17.2020
 MSD Sample Id: 677486-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9330	202	9530	99	9510	90	90-110	0	20	mg/kg	11.18.2020 11:21	

Analytical Method: Chloride by EPA 300

Seq Number: 3142643
 Parent Sample Id: 677769-068

Matrix: Soil
 MS Sample Id: 677769-068 S

Prep Method: E300P
 Date Prep: 11.17.2020
 MSD Sample Id: 677769-068 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4440	202	4640	99	4660	108	90-110	0	20	mg/kg	11.18.2020 13:03	

Analytical Method: Chloride by EPA 300

Seq Number: 3143299
 Parent Sample Id: 677486-010

Matrix: Soil
 MS Sample Id: 677486-010 S

Prep Method: E300P
 Date Prep: 11.24.2020
 MSD Sample Id: 677486-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	7910	202	8100	94	8110	99	90-110	0	20	mg/kg	11.24.2020 22:16	

Analytical Method: Chloride by EPA 300

Seq Number: 3143299
 Parent Sample Id: 677486-054

Matrix: Soil
 MS Sample Id: 677486-054 S

Prep Method: E300P
 Date Prep: 11.24.2020
 MSD Sample Id: 677486-054 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5090	200	5290	100	5290	100	90-110	0	20	mg/kg	11.24.2020 23:29	

Analytical Method: Chloride by EPA 300

Seq Number: 3143301
 Parent Sample Id: 677769-017

Matrix: Soil
 MS Sample Id: 677769-017 S

Prep Method: E300P
 Date Prep: 11.24.2020
 MSD Sample Id: 677769-017 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<9.94	199	202	102	203	102	90-110	0	20	mg/kg	11.25.2020 01:07	

Analytical Method: Chloride by EPA 300

Seq Number: 3143301
 Parent Sample Id: 677769-051

Matrix: Soil
 MS Sample Id: 677769-051 S

Prep Method: E300P
 Date Prep: 11.24.2020
 MSD Sample Id: 677769-051 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5470	202	5690	109	5650	91	90-110	1	20	mg/kg	11.25.2020 02:19	

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

[D] = 100*(C-A) / B
 RPD = 200* | (C-E) / (C+E) |
 [D] = 100 * (C) / [B]
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
 OWL 100570 D

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142195

Matrix: Solid

Prep Method: SW8015P

Date Prep: 11.12.2020

MB Sample Id: 7715125-1-BLK

LCS Sample Id: 7715125-1-BKS

LCSD Sample Id: 7715125-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1050	105	1010	101	70-135	4	35	mg/kg	11.13.2020 00:51	
Diesel Range Organics (DRO)	<50.0	1000	1140	114	1090	109	70-135	4	35	mg/kg	11.13.2020 00:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		127		121		70-135	%	11.13.2020 00:51
o-Terphenyl	103		107		106		70-135	%	11.13.2020 00:51

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142196

Matrix: Solid

Prep Method: SW8015P

Date Prep: 11.12.2020

MB Sample Id: 7715128-1-BLK

LCS Sample Id: 7715128-1-BKS

LCSD Sample Id: 7715128-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1230	123	1080	108	70-135	13	35	mg/kg	11.13.2020 00:51	
Diesel Range Organics (DRO)	<50.0	1000	1250	125	1250	125	70-135	0	35	mg/kg	11.13.2020 00:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	124		127		133		70-135	%	11.13.2020 00:51
o-Terphenyl	124		129		127		70-135	%	11.13.2020 00:51

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142195

Matrix: Solid

Prep Method: SW8015P

Date Prep: 11.12.2020

MB Sample Id: 7715125-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.13.2020 00:30	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142196

Matrix: Solid

Prep Method: SW8015P

Date Prep: 11.12.2020

MB Sample Id: 7715128-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.13.2020 00:30	

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

[D] = 100*(C-A) / B
 RPD = 200* |(C-E) / (C+E)|
 [D] = 100 * (C) / [B]
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
OWL 100570 D

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142195

Parent Sample Id: 677769-001

Matrix: Soil

MS Sample Id: 677769-001 S

Prep Method: SW8015P

Date Prep: 11.12.2020

MSD Sample Id: 677769-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	1120	112	925	93	70-135	19	35	mg/kg	11.13.2020 01:51	
Diesel Range Organics (DRO)	<49.9	997	911	91	1010	101	70-135	10	35	mg/kg	11.13.2020 01:51	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	127		126		70-135	%	11.13.2020 01:51
o-Terphenyl	116		110		70-135	%	11.13.2020 01:51

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142196

Parent Sample Id: 677769-046

Matrix: Soil

MS Sample Id: 677769-046 S

Prep Method: SW8015P

Date Prep: 11.12.2020

MSD Sample Id: 677769-046 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	996	1130	113	1030	103	70-135	9	35	mg/kg	11.13.2020 01:51	
Diesel Range Organics (DRO)	<49.8	996	1020	102	1120	112	70-135	9	35	mg/kg	11.13.2020 01:51	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		111		70-135	%	11.13.2020 01:51
o-Terphenyl	120		108		70-135	%	11.13.2020 01:51

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142212

MB Sample Id: 7715045-1-BLK

Matrix: Solid

LCS Sample Id: 7715045-1-BKS

Prep Method: SW5035A

Date Prep: 11.12.2020

LCSD Sample Id: 7715045-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0923	92	0.0897	90	70-130	3	35	mg/kg	11.13.2020 00:04	
Toluene	<0.00200	0.100	0.0858	86	0.0852	85	70-130	1	35	mg/kg	11.13.2020 00:04	
Ethylbenzene	<0.00200	0.100	0.0880	88	0.0853	85	71-129	3	35	mg/kg	11.13.2020 00:04	
m,p-Xylenes	<0.00400	0.200	0.182	91	0.177	89	70-135	3	35	mg/kg	11.13.2020 00:04	
o-Xylene	<0.00200	0.100	0.0898	90	0.0884	88	71-133	2	35	mg/kg	11.13.2020 00:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		98		95		70-130	%	11.13.2020 00:04
4-Bromofluorobenzene	118		103		103		70-130	%	11.13.2020 00:04

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
 OWL 100570 D

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142232

Matrix: Solid

Prep Method: SW5035A

Date Prep: 11.13.2020

MB Sample Id: 7715121-1-BLK

LCS Sample Id: 7715121-1-BKS

LCSD Sample Id: 7715121-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.103	103	70-130	2	35	mg/kg	11.13.2020 08:09	
Toluene	<0.00200	0.100	0.0957	96	0.0973	97	70-130	2	35	mg/kg	11.13.2020 08:09	
Ethylbenzene	<0.00200	0.100	0.0868	87	0.0879	88	71-129	1	35	mg/kg	11.13.2020 08:09	
m,p-Xylenes	<0.00400	0.200	0.175	88	0.179	90	70-135	2	35	mg/kg	11.13.2020 08:09	
o-Xylene	<0.00200	0.100	0.0882	88	0.0892	89	71-133	1	35	mg/kg	11.13.2020 08:09	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		99		99		70-130	%	11.13.2020 08:09
4-Bromofluorobenzene	89		86		86		70-130	%	11.13.2020 08:09

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142212

Matrix: Soil

Prep Method: SW5035A

Date Prep: 11.12.2020

Parent Sample Id: 677636-008

MS Sample Id: 677636-008 S

MSD Sample Id: 677636-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0940	94	0.0924	92	70-130	2	35	mg/kg	11.13.2020 00:49	
Toluene	<0.00201	0.100	0.0877	88	0.0866	87	70-130	1	35	mg/kg	11.13.2020 00:49	
Ethylbenzene	<0.00201	0.100	0.0878	88	0.0880	88	71-129	0	35	mg/kg	11.13.2020 00:49	
m,p-Xylenes	<0.00402	0.201	0.179	89	0.182	91	70-135	2	35	mg/kg	11.13.2020 00:49	
o-Xylene	<0.00201	0.100	0.0888	89	0.0897	90	71-133	1	35	mg/kg	11.13.2020 00:49	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		100		70-130	%	11.13.2020 00:49
4-Bromofluorobenzene	113		107		70-130	%	11.13.2020 00:49

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142232

Matrix: Soil

Prep Method: SW5035A

Date Prep: 11.13.2020

Parent Sample Id: 677769-001

MS Sample Id: 677769-001 S

MSD Sample Id: 677769-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0928	93	0.0981	98	70-130	6	35	mg/kg	11.13.2020 08:54	
Toluene	<0.00201	0.100	0.0820	82	0.0883	88	70-130	7	35	mg/kg	11.13.2020 08:54	
Ethylbenzene	<0.00201	0.100	0.0770	77	0.0840	84	71-129	9	35	mg/kg	11.13.2020 08:54	
m,p-Xylenes	<0.00402	0.201	0.154	77	0.169	85	70-135	9	35	mg/kg	11.13.2020 08:54	
o-Xylene	<0.00201	0.100	0.0766	77	0.0839	84	71-133	9	35	mg/kg	11.13.2020 08:54	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		99		70-130	%	11.13.2020 08:54
4-Bromofluorobenzene	85		84		70-130	%	11.13.2020 08:54

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

[D] = 100*(C-A) / B
 RPD = 200* |(C-E) / (C+E)|
 [D] = 100 * (C) / [B]
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Setting the Standard since 1990
 Starford, Texas (281-240-4200)
 Dallas, Texas (214-902-0300)
 Service Center - San Antonio, Texas (210-509-3334)

CHAIN OF CUSTODY

Page 1 of 2

Odessa, Texas (432-563-1800)
 Norcross, Georgia (770-449-8800)
 Lakeland, Florida (863-646-8526)
 Tampa, Florida (813-620-2000)

6777769

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes													
Company Name / Branch: KJE, Environmental & Civil Engineering Company Address: 500 Mosely Road, Cross Roads, Texas 76227 Email: travis@kje-us.com Phone No: (840)387-0805 Project Contact: Travis Reddick Samples Name:		Project Name/Number: <u>OWC10570D</u> Project Location: <u>Leu County</u> Invoice To:		PO Number:		Offroad Water Logistics													
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCI	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTX 8260 (5035)	TPH	CHLORIDES	Notes:	
1	SS-17 0-2'	6-2'	11/17/20	8:45	CS	1								X	X	X			
2	SS-17 2-4'	2-4'		8:47															
3	SS-17 4-6'	4-6'		8:49															
4	SS-17 6-8'	6-8'		8:51															
5	SS-18 0-2'	0-2'		9:01															
6	SS-18 2-4'	2-4'		9:03															
7	SS-18 4-6'	4-6'		9:05															
8	SS-18 6-8'	6-8'		9:07															
9	SS-19 0-2'	0-2'		9:12															
10	SS-19 2-4'	2-4'		9:14															
Turnaround Time (Business days)																			
Data Deliverable Information																			
<input checked="" type="checkbox"/> Same Day TAT <input type="checkbox"/> 5 Day TAT <input type="checkbox"/> Next Day EMERGENCY <input type="checkbox"/> 7 Day TAT <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> Contract TAT <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> TRRP Checklist																			
TAT Starts Day received by Lab, if received by 5:00 pm																			
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																			
Relinquished by Sampler:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:	
1 <u>S. C. [Signature]</u>		11-12-20 16:15		1 <u>[Signature]</u>		11-12-20 16:15		1 <u>[Signature]</u>		11-12-20 16:15		1 <u>[Signature]</u>		11-12-20 16:15		1 <u>[Signature]</u>		11-12-20 16:15	
3 Relinquished by:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:	
5 Relinquished by:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:	
5				5				5				5				5			
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously negotiated under a fully executed client contract.																			



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas, Texas (214-902-0300)

CHAIN OF CUSTODY

Page 2 of 7

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (883-646-8526)
 Tampa, Florida (813-620-2000)

6777269

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes	
Company Name / Branch: KJE Environmental & Civil Engineering		Project Name/Number: DWA-1024860 001100520D		Xenco Quote #		Xenco Job #	
Company Address: 500 Mosely Road, Cross Roads, Texas 76227		Project Location: <u>Los County</u>		Xenco Quote #		Xenco Job #	
Email: travis@kje-us.com <u>trreddick@kje-us.com</u> Phone No: (940)387-0905		Invoice To: <u>Los County</u>		Xenco Quote #		Xenco Job #	
Project Contact: <u>Travis Reddick</u>		Oilfield Water Logistics		Xenco Quote #		Xenco Job #	
Sampler's Name		PO Number:		Xenco Quote #		Xenco Job #	

No.	Field ID / Point of Collection	Sample Depth	Collection Date	Time	Matrix	# of bottles	HCI	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Number of preserved bottles	Notes
1	SS-19	4-5'	11/11/20	9:16	CS	1										
2	SS-20	0-2'		9:22												
3	SS-20	2-4'		9:24												
4	SS-20	4-6'		9:26												
5	SS-20	6-8'		9:28												
6	SS-20	8-10'		9:30												
7	SS-20	10-11'		9:32												
8	SS-21	0-2'		9:39												
9	SS-21	2-4'		9:41												
10	SS-21	4-6'		9:43												

Data Deliverable Information		Notes	
<input type="checkbox"/> Same Day TAT	<input type="checkbox"/> 5 Day TAT	<input type="checkbox"/> Level II Std QC	<input type="checkbox"/> Level IV (Full Data Pkg /raw data)
<input type="checkbox"/> Next Day EMERGENCY	<input type="checkbox"/> 7 Day TAT	<input type="checkbox"/> Level III Std QC+ Forms	<input type="checkbox"/> TRRP Level IV
<input type="checkbox"/> 2 Day EMERGENCY	<input type="checkbox"/> Contract TAT	<input type="checkbox"/> Level 3 (CLP Forms)	<input type="checkbox"/> UST / RG-411
<input checked="" type="checkbox"/> 3 Day EMERGENCY		<input type="checkbox"/> TRRP Checklist	

TAT Starts Day received by Lab, if received by 5:00 pm

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished By:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:
<u>S. Reddick</u>	<u>11/17/2019 16:15</u>	<u>Steve Cupp</u>	<u>11-12-2020 1615</u>								

Relinquished by: _____ Date Time: _____

Received where applicable: _____ On Ice: _____ Cooler Temp: _____ Thermo. Corr. Factor: _____

Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously negotiated under a fully executed client contract.



Setting the Standard since 1990
 Starford, Texas (281-240-4200)
 Dallas Texas (214-902-0300)
 Service Center - San Antonio, Texas (210-508-3334)

CHAIN OF CUSTODY

Page 3 of 7

Odessa, Texas (432-563-1800)
 Norcross, Georgia (770-449-8800)
 Lakeland, Florida (863-646-8526)
 Tampa, Florida (813-820-2000)

677769

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes	
Company Name / Branch: K.J.E. Environmental & Civil Engineering		Project Name/Number: OWL102816D		Xenoco Quote #		Xenoco Job #	
Company Address: 500 Mossy Road, Cross Roads, Texas 76227		Project Location: OML102816D		Xenoco Job #		Xenoco Job #	
Email: travis@kje-us.com Phone No: (940)387-0805		Invoice To: Oilfield Water Logistics		Xenoco Job #		Xenoco Job #	
Project Contact: <i>Travis Reddick</i>		PO Number:		Xenoco Job #		Xenoco Job #	
Samples Name		Matrix Codes		Xenoco Job #		Xenoco Job #	

No.	Field ID / Point of Collection	Collection		Number of preserved bottles										Notes:			
		Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH		NONE	BTEX 8260 (5035)	TPH
1	SS-21 6-8'	6-8'	11/11/20	9:45	CS	1								X	X	X	
2	SS-22 0-2'	0-2'		9:52										X	X	X	
3	SS-22 2-4'	2-4'		9:54										X	X	X	
4	SS-22 4-6'	4-6'		9:56										X	X	X	
5	SS-22 6-8'	6-8'		9:58										X	X	X	
6	SS-22 8-9'	8-9'		10:00										X	X	X	
7	SS-23 0-2'	0-2'		10:06										X	X	X	
8	SS-23 2-4'	2-4'		10:08										X	X	X	
9	SS-23 4-6'	4-6'		10:10										X	X	X	
10	SS-24 0-2'	0-2'		10:16										X	X	X	

Turnaround Time (Business days)

Same Day TAT 5 Day TAT
 Next Day EMERGENCY 7 Day TAT
 2 Day EMERGENCY Contract TAT
 3 Day EMERGENCY TRRP Checklist

TAT Starts Day received by Lab, if received by 5:00 pm

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by Sampler: <i>S. Sisk</i>	Date Time: 11/17/2020	Received By: <i>Chloe Dupre</i>	Date Time: 11/22/2020
Relinquished by:	Date Time:	Received By:	Date Time:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously negotiated under a fully executed client contract.

Preserved where applicable On Ice Cooler Temp. Thermo. Corr. Factor



Setting the Standard since 1990
Stafford, Texas (281-240-4200)

Dallas, Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

CHAIN OF CUSTODY

Page 4 of 7

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)
Tampa, Florida (813-620-2000)

677769

Client / Reporting Information			Project Information			Analytical Information			Matrix Codes		
Company Name / Branch: K.J.E. Environmental & Civil Engineering			Project Name/Number: <u>ENV 1028487- OWL 100520D</u>			Xenco Quote #			Xenco Job #		
Company Address: 500 Mossely Road, Cross Roads, Texas 76227			Project Location: <u>Lea County</u>			Xenco Quota #			Xenco Job #		
Email: <u>travis@xenco.com</u> Phone No: (940)387-0905			Invoice To: <u>Lea County</u>			Xenco Quota #			Xenco Job #		
Project Contact: <u>Travis Reddick</u>			Oilfield Water Logistics			Xenco Quota #			Xenco Job #		
Sampler's Name			PO Number:			Xenco Quota #			Xenco Job #		

No.	Field ID / Point of Collection	Sample Depth	Collection Date	Time	Matrix	# of bottles	HC1	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX 8260 (5035)	TPH	CHLORIDES	Notes
1	SS-24	0-2'	2-4	11/11/10	CS	1								X	X	X		
2	SS-24	4-6'																
3	SS-24	6-8'																
4	SS-24	8-10'																
5	SS-24	10-12'																
6	SS-24	12-13'																
7	SS-25	0-2'																
8	SS-25	2-4'																
9	SS-25	4-6'																
10	SS-26	0-2'																

<input type="checkbox"/> Same Day TAT <input type="checkbox"/> Next Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input checked="" type="checkbox"/> 3 Day EMERGENCY		<input type="checkbox"/> 5 Day TAT <input type="checkbox"/> 7 Day TAT <input type="checkbox"/> Contract TAT <input type="checkbox"/> TRRP Checklist	
TAT Starts Day received by Lab, if received by 5:00 pm			
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY			
Relinquished by: <u>[Signature]</u>	Date Time: <u>11/12/15</u>	Received By: <u>[Signature]</u>	Date Time: <u>11-12-2015 16:15</u>
Relinquished by: <u>[Signature]</u>	Date Time: <u>16:15</u>	Received By: <u>[Signature]</u>	Date Time: <u>11-22-2015 16:15</u>
Relinquished by: <u>[Signature]</u>	Date Time: <u>16:15</u>	Received By: <u>[Signature]</u>	Date Time: <u>11-22-2015 16:15</u>

Notes: Final 2c 0-2' Samples. Hold all deeper samples pending 0-2' results. 3 Day TAT

FED-EX / UPS: Tracking # _____

Preserved where applicable: _____

On Ice: Cooler Temp: 10.8/6.6 Thermo. Corr. Factor: _____



Setting the Standard since 1990
Stafford, Texas (281-240-4200)

Dallas, Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

CHAIN OF CUSTODY

Page 5 of 7

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)

Xenco Quote #

Xenco Job #

6277769

Client / Reporting Information

Company Name / Branch: KLE Environmental & Civil Engineering

Company Address: 500 Moseley Road, Cross Roads, Texas 76227

Email: trreddick@klyc-us.com Phone No: (940)397-0805

Project Contact: Travis Reddick

Sampler's Name: ~~Travis Reddick~~

Project Information

Project Name/Number: ~~000000000~~ GUL 100520D

Project Location: Lea County

Invoice To: Oilfield Water Logistics

PO Number:

Analytical Information

BTEX 8260 (5035)

TPH

CHLORIDES

Matrix Codes

- S = Soil/Sed/Solid
- GW = Ground Water
- DW = Drinking Water
- P = Product
- SW = Surface water
- SL = Sludge
- OW = Ocean/Sea Water
- W = W/ipe
- O = Oil
- WW = Waste Water
- A = Air

No.	Field ID / Point of Collection	Sample Depth	Collection Date	Time	Matrix	# of bottles	FCI	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX 8260 (5035)	TPH	CHLORIDES	Field Comments
1	SS-26	2-4'	11/11/20	10:44	CS	1								X	X	X		
2	SS-26	4-6'												X	X	X		
3	SS-26	6-8'												X	X	X		
4	SS-26	8-10'												X	X	X		
5	SS-26	10-11'												X	X	X		
6	SS-27	0-2'												X	X	X		
7	SS-27	2-4'												X	X	X		
8	SS-28	0-2'												X	X	X		
9	SS-28	2-4'												X	X	X		
10	SS-28	4-6'												X	X	X		

Data Deliverable Information

- Same Day TAT
- Next Day EMERGENCY
- 2 Day EMERGENCY
- 3 Day EMERGENCY

- Level II Std QC
- Level III Std QC + Forms
- Level 3 (CLP Forms)
- TRRP Checklist
- 5 Day TAT
- 7 Day TAT
- Contract TAT
- TRRP Level IV
- TRRP RG-411

TAT Starts Day received by Lab, if received by 5:00 pm

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by: S. Zeller Date Time: 11/12/2020 14:15

Relinquished by: Date Time:

Relinquished by: Date Time:

Relinquished by: Date Time:

Received By: Date Time: 11/12/20 14:15

Received By: Date Time:

Received By: Date Time:

Received By: Date Time:

FED-EX / UPS: Tracking #

Received By: Date Time:

Received By: Date Time:

Received By: Date Time:

Received By: Date Time:

Notes: Analyze 0-2' samples. Hold all deeper samples pending 0-2' results 3 Day TAT



Chain of Custody

Work Order No: 1277769

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 El Paso, TX (915) 586-4443 Lubbock, TX (806) 794-1296
 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701
 www.xenco.com Page 6 of 7

Project Manager: Travis Reddick Bill to: (if different) Oilfield Water Logistics
 Company Name: USE, Environmental & Civil Engineering Company Name: Oilfield Water Logistics
 Address: 500 Hensley Road, Crossroads Address:
 City, State ZIP: Cross Roads, TX 76027 City, State ZIP:
 Phone: Email: treddick@kjc-us.com

Project Name: Turn Around Pres. Code
 Project Number: OWL 1/0520D Routine
 Project Location: Lea County Rush: 3 DAY
 Sampler's Name: Tyler Engant Due Date:

Program: UST/PST PRP Brownfields RRC Superfund
 State of Project:
 Reporting: Level II Level III PST/UST TRRP Level IV
 Deliverables: EDD ADAPT Other:

SAMPLE RECEIPT

Temperature (°C): 6.8/6.6 Temp Blank: Yes No Wet Ice: Yes No
 Received Intact: Yes Thermometer ID: TNMC007 Correction Factor:
 Cooler Custody Seals: Yes No Total Containers:
 Sample Custody Seals: Yes No

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	ANALYSIS REQUEST	Preservative Codes	Sample Comments
55-28	8-10'	CS	11/11/2020	11:12	8-10'	1	BTEX 8260 (5035)	MeOH: Me None: NO HNO3: HN H2SO4: H2 HCL: HL NaOH: Na Zn Acetate+ NaOH: Zn	TAT starts the day received by the lab, if received by 4:00pm
55-28	10-11'			11:14	10-11'	1	TPH		
55-29	0-2'			11:22	0-2'	1	Chlorides		
55-29	2-4'			11:24	2-4'	1			
55-29	4-6'			11:26	4-6'	1			
55-29	6-7'			11:28	6-7'	1			
55-30	0-2'			11:34	0-2'	1			
55-30	2-4'			11:36	2-4'	1			
55-31	6-2'			11:40	0-2'	1			
55-31	2-4'			11:42	2-4'	1			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SIO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature) S. S. [Signature] Received by: (Signature) Clay Cupper Date/Time 11/12/2020 16:15 Relinquished by: (Signature) Received by: (Signature) Date/Time

3 Day TAT Analyze 0-2' Samples. Hold all deeper samples pending 0-2' results



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

Chain of Custody

Work Order No: 1677769

Project Manager: Travis Reddick
 Company Name: KJE, Environmental & Civil Engineering
 Address: 500 Nesselley Road
 City, State ZIP: Cross Roads, Tx 76227
 Phone: [blank]
 Email: treddick@kje-us.com

Bill to: (if different) Company Name: Oilfield Water Logistics
 Address: [blank]
 City, State ZIP: [blank]

Project Name: OWL 100520 D
 Project Number: [blank]
 Project Location: Lea County
 Sampler's Name: Tyler Eubank
 PO #: [blank]

Turn Around Routine 3 DAY
 Rush:
 Due Date: [blank]

Program: PST PRP Brownfields RRC Superfund
 State of Project: [blank]
 Reporting Level: Level II Level III PST/UST TRRP Level IV
 Deliverables: EDD ADAPT Other: [blank]

Temp Blank: Yes No
 Received Intact: Yes No
 Cooler Custody Seals: Yes No N/A
 Sample Custody Seals: Yes No N/A

Thermometer ID: [blank]
 Correction Factor: [blank]
 Total Containers: [blank]

Wet Ice: Yes No

Quote #: [blank]

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	ANALYSIS REQUEST	Preservative Codes	Sample Comments
SS-31	4-6'	CS	11/11/20	11:44	4-6'	1	X	BTEX B260 (5035)	
SS-31	6-7'			11:46	6-7'	1	X	TPH	
SS-32	0-2'			12:00	0-2'	1	X	Chlorides	
SS-32	2-4'			12:02	2-4'	1	X		
SS-33	0-2'			12:08	0-2'	1	X		
SS-33	2-4'			12:10	2-4'	1	X		
SS-34	0-2'			12:14	0-2'	1	X		
SS-34	2-4'			12:16	2-4'	1	X		
SS-35	0-2'			12:30	0-2'	1	X		
SS-35	2-4'			12:32	2-4'	1	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature) [Signature]
 Received by: (Signature) [Signature]
 Date/Time: 11-12-20 16:15 11/12/2020
 Relinquished by: (Signature) [Signature]
 Received by: (Signature) [Signature]
 Date/Time: [blank]

3 Day TAT Analyze 0-2' Samples. Hold all deeper samples pending 0-2' results



Certificate of Analysis Summary 677778

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.16.2020 13:21
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677778-001	677778-004	677778-008	677778-009	677778-013	677778-015
	<i>Field Id:</i>	SS-56 0-2'	SS-57 0-2'	SS-58 0-2'	SS-59 0-2'	SS-60 0-2'	SS-61 0-2'
	<i>Depth:</i>	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.12.2020 08:10	11.12.2020 08:18	11.12.2020 08:28	11.12.2020 08:34	11.12.2020 08:44	11.12.2020 08:50
BTEX by EPA 8021B	<i>Extracted:</i>	11.13.2020 09:59	11.13.2020 09:59	11.13.2020 09:59	11.13.2020 09:59	11.13.2020 09:59	11.13.2020 09:59
	<i>Analyzed:</i>	11.13.2020 15:18	11.13.2020 15:41	11.13.2020 16:03	11.13.2020 16:26	11.13.2020 16:48	11.13.2020 17:11
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00202 0.00202	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199
Toluene		<0.00202 0.00202	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199
Ethylbenzene		<0.00202 0.00202	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199
m,p-Xylenes		<0.00403 0.00403	<0.00398 0.00398	<0.00398 0.00398	<0.00402 0.00402	<0.00401 0.00401	<0.00398 0.00398
o-Xylene		<0.00202 0.00202	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199
Total Xylenes		<0.00202 0.00202	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199
Total BTEX		<0.00202 0.00202	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i>	11.13.2020 14:38	11.13.2020 14:38	11.13.2020 14:38	11.13.2020 14:38	11.13.2020 14:38	11.13.2020 14:38
	<i>Analyzed:</i>	* * * * *	11.13.2020 14:40	11.13.2020 14:45	11.13.2020 14:51	11.13.2020 14:56	11.13.2020 15:13
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		8280 198	23.9 9.98	11200 D 202	2240 99.0	11100 199	16.3 10.1
TPH by SW8015 Mod	<i>Extracted:</i>	11.13.2020 11:48	11.13.2020 11:48	11.13.2020 11:48	11.13.2020 11:48	11.13.2020 11:48	11.13.2020 11:48
	<i>Analyzed:</i>	11.13.2020 14:00	11.13.2020 15:14	11.13.2020 15:34	11.13.2020 15:54	11.13.2020 16:14	11.13.2020 16:34
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.2 50.2	<49.8 49.8
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.2 50.2	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.2 50.2	<49.8 49.8
Total TPH		<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.2 50.2	<49.8 49.8

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677778

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.16.2020 13:21
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677778-019	677778-025	677778-030	677778-033	677778-037	677778-041
	<i>Field Id:</i>	SS-62 0-2'	SS-63 0-2'	SS-64 0-2'	SS-65 0-2'	SS-66 0-2'	SS-67 0-2'
	<i>Depth:</i>	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.12.2020 09:00	11.12.2020 09:14	11.12.2020 09:26	11.12.2020 09:50	11.12.2020 10:00	11.12.2020 10:08
BTEX by EPA 8021B	<i>Extracted:</i>	11.13.2020 09:59	11.13.2020 09:59	11.13.2020 09:59	11.13.2020 09:59	11.13.2020 09:59	11.13.2020 09:59
	<i>Analyzed:</i>	11.13.2020 17:33	11.13.2020 17:56	11.13.2020 18:18	11.13.2020 18:41	11.13.2020 20:00	11.13.2020 20:23
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00402 0.00402	<0.00398 0.00398	<0.00396 0.00396	<0.00396 0.00396	<0.00401 0.00401	<0.00399 0.00399
o-Xylene		<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	11.13.2020 14:38	11.13.2020 14:38	11.13.2020 14:38	11.13.2020 14:38	11.13.2020 14:38	11.13.2020 14:38
	<i>Analyzed:</i>	11.13.2020 15:18	11.13.2020 15:24	11.13.2020 15:29	11.13.2020 15:35	11.13.2020 15:40	11.13.2020 15:56
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		13.3 9.98	1070 50.2	5220 100	<9.94 9.94	<9.96 9.96	436 9.94
TPH by SW8015 Mod	<i>Extracted:</i>	11.13.2020 11:48	11.13.2020 11:48	11.13.2020 11:48	11.13.2020 11:48	11.13.2020 11:48	11.13.2020 11:48
	<i>Analyzed:</i>	11.13.2020 16:54	11.13.2020 17:15	11.13.2020 17:35	11.13.2020 17:56	11.13.2020 18:35	11.13.2020 18:55
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.3 50.3	<49.9 49.9	<50.2 50.2	<49.8 49.8	<50.3 50.3	<49.8 49.8
Diesel Range Organics (DRO)		<50.3 50.3	<49.9 49.9	<50.2 50.2	<49.8 49.8	<50.3 50.3	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.3 50.3	<49.9 49.9	<50.2 50.2	<49.8 49.8	<50.3 50.3	<49.8 49.8
Total TPH		<50.3 50.3	<49.9 49.9	<50.2 50.2	<49.8 49.8	<50.3 50.3	<49.8 49.8

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677778

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.16.2020 13:21
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677778-044	677778-047	677778-051		
	<i>Field Id:</i>	SS-68 0-2'	SS-69 0-2'	SS-70 0-2'		
	<i>Depth:</i>	0-2 ft	0-2 ft	0-2 ft		
	<i>Matrix:</i>	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	11.12.2020 10:20	11.12.2020 10:30	11.12.2020 10:40		
BTEX by EPA 8021B	<i>Extracted:</i>	11.13.2020 09:59	11.13.2020 09:59	11.13.2020 09:59		
	<i>Analyzed:</i>	11.13.2020 20:45	11.13.2020 21:08	11.13.2020 21:30		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200		
Toluene		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200		
Ethylbenzene		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200		
m,p-Xylenes		<0.00396 0.00396	<0.00397 0.00397	<0.00399 0.00399		
o-Xylene		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200		
Total Xylenes		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200		
Total BTEX		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200		
Chloride by EPA 300	<i>Extracted:</i>	11.13.2020 14:38	11.13.2020 14:38	11.13.2020 14:38		
	<i>Analyzed:</i>	11.13.2020 16:02	11.13.2020 16:18	11.13.2020 16:24		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		13.7 10.1	52.9 9.96	<10.1 10.1		
TPH by SW8015 Mod	<i>Extracted:</i>	11.13.2020 11:48	11.13.2020 11:48	11.13.2020 11:48		
	<i>Analyzed:</i>	11.13.2020 19:16	11.13.2020 19:36	11.13.2020 19:56		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9		
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9		
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9		
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9		

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Analytical Report 677778

for

KJ Environmental & Civil Engineering

Project Manager: Travis Reddick

OWL 100520 D

11.16.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



11.16.2020

Project Manager: **Travis Reddick**
KJ Environmental & Civil Engineering
500 Moseley Rd
Aubrey, TX 76227

Reference: Eurofins Xenco, LLC Report No(s): **677778**
OWL 100520 D
Project Address: Lea County, New Mexico

Travis Reddick:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 677778. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 677778 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 677778

KJ Environmental & Civil Engineering, Aubrey, TX

OWL 100520 D

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-56 0-2'	S	11.12.2020 08:10	0 - 2 ft	677778-001
SS-57 0-2'	S	11.12.2020 08:18	0 - 2 ft	677778-004
SS-58 0-2'	S	11.12.2020 08:28	0 - 2 ft	677778-008
SS-59 0-2'	S	11.12.2020 08:34	0 - 2 ft	677778-009
SS-60 0-2'	S	11.12.2020 08:44	0 - 2 ft	677778-013
SS-61 0-2'	S	11.12.2020 08:50	0 - 2 ft	677778-015
SS-62 0-2'	S	11.12.2020 09:00	0 - 2 ft	677778-019
SS-63 0-2'	S	11.12.2020 09:14	0 - 2 ft	677778-025
SS-64 0-2'	S	11.12.2020 09:26	0 - 2 ft	677778-030
SS-65 0-2'	S	11.12.2020 09:50	0 - 2 ft	677778-033
SS-66 0-2'	S	11.12.2020 10:00	0 - 2 ft	677778-037
SS-67 0-2'	S	11.12.2020 10:08	0 - 2 ft	677778-041
SS-68 0-2'	S	11.12.2020 10:20	0 - 2 ft	677778-044
SS-69 0-2'	S	11.12.2020 10:30	0 - 2 ft	677778-047
SS-70 0-2'	S	11.12.2020 10:40	0 - 2 ft	677778-051
SS-56 2-4'	S	11.12.2020 08:12	2 - 4 ft	Not Analyzed
SS-56 4-6'	S	11.12.2020 08:14	4 - 6 ft	Not Analyzed
SS-57 2-4'	S	11.12.2020 08:20	2 - 4 ft	Not Analyzed
SS-57 4-6'	S	11.12.2020 08:22	4 - 6 ft	Not Analyzed
SS-57 6-7'	S	11.12.2020 08:24	6 - 7 ft	Not Analyzed
SS-59 2-4'	S	11.12.2020 08:36	2 - 4 ft	Not Analyzed
SS-59 4-6'	S	11.12.2020 08:38	4 - 6 ft	Not Analyzed
SS-59 6-7'	S	11.12.2020 08:40	6 - 7 ft	Not Analyzed
SS-60 2-4'	S	11.12.2020 08:46	2 - 4 ft	Not Analyzed
SS-61 2-4'	S	11.12.2020 08:52	2 - 4 ft	Not Analyzed
SS-61 4-6'	S	11.12.2020 08:54	4 - 6 ft	Not Analyzed
SS-61 6-8'	S	11.12.2020 08:56	6 - 8 ft	Not Analyzed
SS-62 2-4'	S	11.12.2020 09:02	2 - 4 ft	Not Analyzed
SS-62 4-6'	S	11.12.2020 09:04	4 - 6 ft	Not Analyzed
SS-62 6-8'	S	11.12.2020 09:06	6 - 8 ft	Not Analyzed
SS-62 8-10'	S	11.12.2020 09:08	8 - 10 ft	Not Analyzed
SS-62 10-11'	S	11.12.2020 09:10	10 - 11 ft	Not Analyzed
SS-63 2-4'	S	11.12.2020 09:16	2 - 4 ft	Not Analyzed
SS-63 4-6'	S	11.12.2020 09:18	4 - 6 ft	Not Analyzed
SS-63 6-8'	S	11.12.2020 09:20	6 - 8 ft	Not Analyzed
SS-63 8-10'	S	11.12.2020 09:22	8 - 10 ft	Not Analyzed
SS-64 2-4'	S	11.12.2020 09:28	2 - 4 ft	Not Analyzed
SS-64 4-6'	S	11.12.2020 09:30	4 - 6 ft	Not Analyzed
SS-65 2-4'	S	11.12.2020 09:52	2 - 4 ft	Not Analyzed
SS-65 4-6'	S	11.12.2020 09:54	4 - 6 ft	Not Analyzed
SS-65 6-7'	S	11.12.2020 09:56	6 - 7 ft	Not Analyzed
SS-66 2-4'	S	11.12.2020 10:02	2 - 4 ft	Not Analyzed
SS-66 4-6'	S	11.12.2020 10:04	4 - 6 ft	Not Analyzed



Sample Cross Reference 677778

KJ Environmental & Civil Engineering, Aubrey, TX

OWL 100520 D

SS-66 6-7'	S	11.12.2020 10:06	6 - 7 ft	Not Analyzed
SS-67 2-4'	S	11.12.2020 10:10	2 - 4 ft	Not Analyzed
SS-67 4-6'	S	11.12.2020 10:12	4 - 6 ft	Not Analyzed
SS-68 2-4'	S	11.12.2020 10:22	2 - 4 ft	Not Analyzed
SS-68 4-6'	S	11.12.2020 10:24	4 - 5 ft	Not Analyzed
SS-69 2-4'	S	11.12.2020 10:32	2 - 4 ft	Not Analyzed
SS-69 4-6'	S	11.12.2020 10:34	4 - 6 ft	Not Analyzed
SS-69 6-7'	S	11.12.2020 10:36	6 - 7 ft	Not Analyzed
SS-70 2-4'	S	11.12.2020 10:42	2 - 4 ft	Not Analyzed
SS-70 4-6'	S	11.12.2020 10:44	4 - 6 ft	Not Analyzed
SS-70 6-8'	S	11.12.2020 10:46	6 - 8 ft	Not Analyzed
SS-70 8-10'	S	11.12.2020 10:48	8 - 10 ft	Not Analyzed
SS-70 10-11'	S	11.12.2020 10:50	10 - 11 ft	Not Analyzed



CASE NARRATIVE

Client Name: KJ Environmental & Civil Engineering

Project Name: OWL 100520 D

Project ID:
Work Order Number(s): 677778

Report Date: 11.16.2020
Date Received: 11.12.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-56 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-001 Date Collected: 11.12.2020 08:10 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8280	198	mg/kg	11.13.2020 14:23		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 14:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 14:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 14:00	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 14:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	11.13.2020 14:00	
o-Terphenyl	84-15-1	108	%	70-135	11.13.2020 14:00	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-56 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-001 Date Collected: 11.12.2020 08:10 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.13.2020 15:18	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.13.2020 15:18	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.13.2020 15:18	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.13.2020 15:18	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.13.2020 15:18	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	11.13.2020 15:18	U	1
Total BTEX		<0.00202	0.00202	mg/kg	11.13.2020 15:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.13.2020 15:18	
4-Bromofluorobenzene	460-00-4	114	%	70-130	11.13.2020 15:18	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-57 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-004 Date Collected: 11.12.2020 08:18 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	23.9	9.98	mg/kg	11.13.2020 14:40		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.13.2020 15:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.13.2020 15:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.13.2020 15:14	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.13.2020 15:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	11.13.2020 15:14	
o-Terphenyl	84-15-1	116	%	70-135	11.13.2020 15:14	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX
 OWL 100520 D

Sample Id: **SS-57 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-004 Date Collected: 11.12.2020 08:18 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 15:41	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 15:41	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 15:41	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 15:41	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 15:41	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 15:41	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 15:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 15:41	
4-Bromofluorobenzene	460-00-4	116	%	70-130	11.13.2020 15:41	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-58 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-008 Date Collected: 11.12.2020 08:28 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11200	202	mg/kg	11.16.2020 11:38	D	20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 15:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 15:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 15:34	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 15:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	11.13.2020 15:34	
o-Terphenyl	84-15-1	114	%	70-135	11.13.2020 15:34	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-58 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-008 Date Collected: 11.12.2020 08:28 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 16:03	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 16:03	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 16:03	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 16:03	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 16:03	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 16:03	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 16:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	11.13.2020 16:03	
4-Bromofluorobenzene	460-00-4	113	%	70-130	11.13.2020 16:03	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-59 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-009 Date Collected: 11.12.2020 08:34 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2240	99.0	mg/kg	11.13.2020 14:51		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 15:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 15:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 15:54	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 15:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-135	11.13.2020 15:54	
o-Terphenyl	84-15-1	112	%	70-135	11.13.2020 15:54	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-59 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-009 Date Collected: 11.12.2020 08:34 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.13.2020 16:26	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.13.2020 16:26	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.13.2020 16:26	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.13.2020 16:26	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.13.2020 16:26	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.13.2020 16:26	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.13.2020 16:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	11.13.2020 16:26	
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.13.2020 16:26	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-60 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-013 Date Collected: 11.12.2020 08:44 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11100	199	mg/kg	11.13.2020 14:56		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 16:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.13.2020 16:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.13.2020 16:14	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.13.2020 16:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	11.13.2020 16:14	
o-Terphenyl	84-15-1	118	%	70-135	11.13.2020 16:14	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-60 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-013 Date Collected: 11.12.2020 08:44 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 16:48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 16:48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 16:48	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 16:48	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 16:48	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 16:48	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 16:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	11.13.2020 16:48	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.13.2020 16:48	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-61 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-015 Date Collected: 11.12.2020 08:50 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.3	10.1	mg/kg	11.13.2020 15:13		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.13.2020 16:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.13.2020 16:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.13.2020 16:34	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.13.2020 16:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	11.13.2020 16:34	
o-Terphenyl	84-15-1	98	%	70-135	11.13.2020 16:34	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX
 OWL 100520 D

Sample Id: **SS-61 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-015 Date Collected: 11.12.2020 08:50 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 17:11	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 17:11	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 17:11	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 17:11	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 17:11	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 17:11	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 17:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.13.2020 17:11	
4-Bromofluorobenzene	460-00-4	116	%	70-130	11.13.2020 17:11	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-62 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-019 Date Collected: 11.12.2020 09:00 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.3	9.98	mg/kg	11.13.2020 15:18		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.13.2020 16:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.13.2020 16:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.13.2020 16:54	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.13.2020 16:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-135	11.13.2020 16:54	
o-Terphenyl	84-15-1	106	%	70-135	11.13.2020 16:54	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-62 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-019 Date Collected: 11.12.2020 09:00 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.13.2020 17:33	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.13.2020 17:33	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.13.2020 17:33	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.13.2020 17:33	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.13.2020 17:33	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.13.2020 17:33	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.13.2020 17:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	11.13.2020 17:33	
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.13.2020 17:33	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-63 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-025 Date Collected: 11.12.2020 09:14 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1070	50.2	mg/kg	11.13.2020 15:24		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 17:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 17:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 17:15	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 17:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	11.13.2020 17:15	
o-Terphenyl	84-15-1	112	%	70-135	11.13.2020 17:15	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-63 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-025 Date Collected: 11.12.2020 09:14 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 17:56	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 17:56	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 17:56	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 17:56	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 17:56	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 17:56	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 17:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.13.2020 17:56	
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.13.2020 17:56	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-64 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-030 Date Collected: 11.12.2020 09:26 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5220	100	mg/kg	11.13.2020 15:29		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 17:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.13.2020 17:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.13.2020 17:35	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.13.2020 17:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	11.13.2020 17:35	
o-Terphenyl	84-15-1	116	%	70-135	11.13.2020 17:35	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-64 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-030 Date Collected: 11.12.2020 09:26 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.13.2020 18:18	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.13.2020 18:18	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.13.2020 18:18	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	11.13.2020 18:18	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.13.2020 18:18	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.13.2020 18:18	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.13.2020 18:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	70-130	11.13.2020 18:18	
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.13.2020 18:18	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-65 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-033 Date Collected: 11.12.2020 09:50 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.94	9.94	mg/kg	11.13.2020 15:35	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.13.2020 17:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.13.2020 17:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.13.2020 17:56	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.13.2020 17:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	11.13.2020 17:56	
o-Terphenyl	84-15-1	108	%	70-135	11.13.2020 17:56	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-65 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-033 Date Collected: 11.12.2020 09:50 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.13.2020 18:41	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.13.2020 18:41	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.13.2020 18:41	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	11.13.2020 18:41	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.13.2020 18:41	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.13.2020 18:41	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.13.2020 18:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 18:41	
4-Bromofluorobenzene	460-00-4	121	%	70-130	11.13.2020 18:41	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-66 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-037 Date Collected: 11.12.2020 10:00 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.96	9.96	mg/kg	11.13.2020 15:40	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.13.2020 18:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.13.2020 18:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.13.2020 18:35	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.13.2020 18:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	11.13.2020 18:35	
o-Terphenyl	84-15-1	104	%	70-135	11.13.2020 18:35	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-66 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-037 Date Collected: 11.12.2020 10:00 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 20:00	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 20:00	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 20:00	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 20:00	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 20:00	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 20:00	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 20:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.13.2020 20:00		
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.13.2020 20:00		



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-67 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-041 Date Collected: 11.12.2020 10:08 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	436	9.94	mg/kg	11.13.2020 15:56		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.13.2020 18:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.13.2020 18:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.13.2020 18:55	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.13.2020 18:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	11.13.2020 18:55	
o-Terphenyl	84-15-1	118	%	70-135	11.13.2020 18:55	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-67 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-041 Date Collected: 11.12.2020 10:08 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 20:23	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 20:23	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 20:23	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.13.2020 20:23	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 20:23	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 20:23	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 20:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	11.13.2020 20:23	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.13.2020 20:23	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-68 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-044 Date Collected: 11.12.2020 10:20 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.7	10.1	mg/kg	11.13.2020 16:02		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.13.2020 19:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.13.2020 19:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.13.2020 19:16	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.13.2020 19:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	11.13.2020 19:16	
o-Terphenyl	84-15-1	106	%	70-135	11.13.2020 19:16	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-68 0-2'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677778-044	Date Collected: 11.12.2020 10:20	Sample Depth: 0 - 2 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		
Analyst: MAB	Date Prep: 11.13.2020 09:59	% Moisture:
Seq Number: 3142319		Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.13.2020 20:45	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.13.2020 20:45	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.13.2020 20:45	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	11.13.2020 20:45	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.13.2020 20:45	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.13.2020 20:45	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.13.2020 20:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.13.2020 20:45	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.13.2020 20:45	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-69 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-047 Date Collected: 11.12.2020 10:30 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	52.9	9.96	mg/kg	11.13.2020 16:18		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.13.2020 19:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.13.2020 19:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.13.2020 19:36	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.13.2020 19:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	11.13.2020 19:36	
o-Terphenyl	84-15-1	110	%	70-135	11.13.2020 19:36	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-69 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-047 Date Collected: 11.12.2020 10:30 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.13.2020 21:08	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.13.2020 21:08	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.13.2020 21:08	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.13.2020 21:08	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.13.2020 21:08	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.13.2020 21:08	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.13.2020 21:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	122	%	70-130	11.13.2020 21:08	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.13.2020 21:08	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-70 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-051 Date Collected: 11.12.2020 10:40 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.1	10.1	mg/kg	11.13.2020 16:24	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 19:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 19:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 19:56	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 19:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-135	11.13.2020 19:56	
o-Terphenyl	84-15-1	104	%	70-135	11.13.2020 19:56	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-70 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-051 Date Collected: 11.12.2020 10:40 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 21:30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 21:30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 21:30	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.13.2020 21:30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 21:30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 21:30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 21:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	11.13.2020 21:30	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.13.2020 21:30	



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



KJ Environmental & Civil Engineering
OWL 100520 D

Analytical Method: Chloride by EPA 300

Seq Number: 3142335
MB Sample Id: 7715158-1-BLK

Matrix: Solid
LCS Sample Id: 7715158-1-BKS

Prep Method: E300P
Date Prep: 11.13.2020
LCSD Sample Id: 7715158-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	249	100	245	98	90-110	2	20	mg/kg	11.13.2020 14:12	

Analytical Method: Chloride by EPA 300

Seq Number: 3142335
Parent Sample Id: 677778-001

Matrix: Soil
MS Sample Id: 677778-001 S

Prep Method: E300P
Date Prep: 11.13.2020
MSD Sample Id: 677778-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8280	199	8490	106	8500	110	90-110	0	20	mg/kg	11.13.2020 14:29	

Analytical Method: Chloride by EPA 300

Seq Number: 3142335
Parent Sample Id: 677778-037

Matrix: Soil
MS Sample Id: 677778-037 S

Prep Method: E300P
Date Prep: 11.13.2020
MSD Sample Id: 677778-037 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	198	99	203	102	90-110	2	20	mg/kg	11.13.2020 15:45	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142309
MB Sample Id: 7715199-1-BLK

Matrix: Solid
LCS Sample Id: 7715199-1-BKS

Prep Method: SW8015P
Date Prep: 11.13.2020
LCSD Sample Id: 7715199-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1090	109	1140	114	70-135	4	35	mg/kg	11.13.2020 13:20	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	1120	112	70-135	6	35	mg/kg	11.13.2020 13:20	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	130		114		110		70-135	%	11.13.2020 13:20
o-Terphenyl	125		110		110		70-135	%	11.13.2020 13:20

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142309

Matrix: Solid
MB Sample Id: 7715199-1-BLK

Prep Method: SW8015P
Date Prep: 11.13.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.13.2020 13:00	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
OWL 100520 D

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142309

Parent Sample Id: 677778-001

Matrix: Soil

MS Sample Id: 677778-001 S

Prep Method: SW8015P

Date Prep: 11.13.2020

MSD Sample Id: 677778-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	999	1130	113	1040	104	70-135	8	35	mg/kg	11.13.2020 14:20	
Diesel Range Organics (DRO)	<50.0	999	1010	101	1120	112	70-135	10	35	mg/kg	11.13.2020 14:20	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		107		70-135	%	11.13.2020 14:20
o-Terphenyl	116		98		70-135	%	11.13.2020 14:20

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142319

MB Sample Id: 7715122-1-BLK

Matrix: Solid

LCS Sample Id: 7715122-1-BKS

Prep Method: SW5035A

Date Prep: 11.13.2020

LCSD Sample Id: 7715122-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0905	91	0.0952	95	70-130	5	35	mg/kg	11.13.2020 13:13	
Toluene	<0.00200	0.100	0.0848	85	0.0908	91	70-130	7	35	mg/kg	11.13.2020 13:13	
Ethylbenzene	<0.00200	0.100	0.0872	87	0.0917	92	71-129	5	35	mg/kg	11.13.2020 13:13	
m,p-Xylenes	<0.00400	0.200	0.179	90	0.187	94	70-135	4	35	mg/kg	11.13.2020 13:13	
o-Xylene	<0.00200	0.100	0.0890	89	0.0927	93	71-133	4	35	mg/kg	11.13.2020 13:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		100		101		70-130	%	11.13.2020 13:13
4-Bromofluorobenzene	114		101		109		70-130	%	11.13.2020 13:13

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142319

Parent Sample Id: 677778-001

Matrix: Soil

MS Sample Id: 677778-001 S

Prep Method: SW5035A

Date Prep: 11.13.2020

MSD Sample Id: 677778-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.106	106	0.0873	87	70-130	19	35	mg/kg	11.13.2020 13:58	
Toluene	<0.00200	0.100	0.0992	99	0.0768	77	70-130	25	35	mg/kg	11.13.2020 13:58	
Ethylbenzene	<0.00200	0.100	0.0997	100	0.0724	72	71-129	32	35	mg/kg	11.13.2020 13:58	
m,p-Xylenes	<0.00401	0.200	0.202	101	0.147	73	70-135	32	35	mg/kg	11.13.2020 13:58	
o-Xylene	<0.00200	0.100	0.0997	100	0.0732	73	71-133	31	35	mg/kg	11.13.2020 13:58	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		105		70-130	%	11.13.2020 13:58
4-Bromofluorobenzene	106		113		70-130	%	11.13.2020 13:58

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas, Texas (214-902-4300)
 Service Center - San Antonio, Texas (210-509-3334)

CHAIN OF CUSTODY

Page 1 of 6

www.xenco.com

Odessa, Texas (432-563-1800)
 Norcross, Georgia (770-449-8800)
 Lakeland, Florida (863-646-8526)
 Tampa, Florida (813-620-2000)

677778

Client / Reporting Information		Project Information		Analytical Information										Matrix Codes					
Company Name / Branch: KJE Environmental & Civil Engineering Company Address: 500 Mosely Road, Cross Roads, Texas 76227 Email: fred@kje-us.com Phone No: (940)387-0805		Project Name/Number: -GWL100520D Project Location: Lea County Invoice To: Offfield Water Logistics		Xenco Quote # Xenco Job #										FED-EX / UPS: Tracking #					
Project Contact: Travis Reddick Sample's Name		PO Number:		Notes:										On Ice Cooler Temp. Thermo. Corr. Factor					
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX 8260 (5035)	TPH	CHLORIDES	Field Comments	
1	SS-5b 0-2'	0-2'	11/12/20	08:10	CS	1								X	X	X			
2	SS-5b 2-4'	2-4'	11/12/20	08:12										X	X	X			
3	SS-5b 4-6'	4-6'	11/12/20	08:14										X	X	X			
4	SS-57 0-2'	0-2'	11/12/20	08:18										X	X	X			
5	SS-57 2-4'	2-4'	11/12/20	08:20										X	X	X			
6	SS-57 4-6'	4-6'	11/12/20	08:22										X	X	X			
7	SS-57 6-7'	6-7'	11/12/20	08:24										X	X	X			
8	SS-58 0-2'	0-2'	11/12/20	08:28										X	X	X			
9	SS-59 0-2'	0-2'	11/12/20	08:34										X	X	X			
10	SS-59 2-4'	2-4'	11/12/20	08:36										X	X	X			
Turnaround Time (Business days)		Data Deliverable Information																	
<input type="checkbox"/> Same Day TAT		<input type="checkbox"/> 5 Day TAT		<input type="checkbox"/> Level II Std QC		<input type="checkbox"/> Level IV (Full Data Pkg /raw data)												Notes:	
<input type="checkbox"/> Next Day EMERGENCY		<input type="checkbox"/> 7 Day TAT		<input type="checkbox"/> Level III Std QC+ Forms		<input type="checkbox"/> TRRP Level IV												Analyze 0-2' samples Hold all deeper samples pending 0-2' results, 3 Day TAT	
<input type="checkbox"/> 2 Day EMERGENCY		<input type="checkbox"/> Contract TAT		<input type="checkbox"/> Level 3 (CLP Forms)		<input type="checkbox"/> UST / RG 411													
<input checked="" type="checkbox"/> 3 Day EMERGENCY				<input type="checkbox"/> TRRP Checklist															
TAT Starts Day received by Lab, if received by 5:00 pm																			
Relinquished by Sampler: S. Cable		Date Time: 11/12/2020 16:15		Received By: [Signature]		Date Time: 11/17/20 16:15		Relinquished By: [Signature]		Date Time:		Received By:		Date Time:		Received By:			
Relinquished by:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Received By:			
Relinquished by:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Received By:			



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas, Texas (214-902-4300)
 Service Center - San Antonio, Texas (210-509-3334)

CHAIN OF CUSTODY

Page 2 of 4

Odessa, Texas (432-563-1800)
 Norcross, Georgia (770-449-8800)
 Lakeland, Florida (853-646-8526)
 Tampa, Florida (813-620-2000)

www.xenco.com

Client / Reporting Information Company Name / Branch: KJE, Environmental & Civil Engineering Company Address: 500 Moseley Road, Cross Roads, Texas 76227 Email: XXXXXXXXXXXX@XXXXXX Phone No: (940)387-0805 Project Contact: Travis Peddick Project Email: trpeddick@kje-us.com Sampler's Name:		Project Information Project Name/Number: ENVIRONMENTAL OIL 100520D Project Location: Len County Invoice To: Oilfield Water Logistics PO Number:		Analytical Information Xenco Quote # Xenco Job #		Matrix Codes S = Soil/Sed/Solid GW = Ground Water DW = Drinking Water P = Product SW = Surface water SL = Sludge OW = Ocean/Sea Water W = Wipe O = Oil WW = Waste Water A = Air													
No.	Field ID / Point of Collection	Collection	Number of preserved bottles	Data Deliverable Information		Notes	Field Comments												
1	SS-59 4-6'	Sample Depth: 4-6' Date: 11/12/20 Time: 08:38 Matrix: CS	# of bottles: 1	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX 8260 (5035)	TPH	CHLORIDES					
2	SS-59 6-7'	11/12/20 08:40																	
3	SS-60 0-2'	11/12/20 08:44																	
4	SS-60 2-4'	11/12/20 08:46																	
5	SS-61 0-2'	11/12/20 08:50																	
6	SS-61 2-4'	11/12/20 08:52																	
7	SS-61 4-6'	11/12/20 08:54																	
8	SS-61 6-8'	11/12/20 08:56																	
9	SS-62 0-2'	11/12/20 09:00																	
10	SS-62 2-4'	11/12/20 09:02																	
Turnaround Time (Business days)				Data Deliverable Information		Notes:													
<input type="checkbox"/> Same Day TAT <input type="checkbox"/> Next Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input checked="" type="checkbox"/> 3 Day EMERGENCY		<input type="checkbox"/> 5 Day TAT <input type="checkbox"/> 7 Day TAT <input type="checkbox"/> Contract TAT		<input type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC+ Forms <input type="checkbox"/> Level 3 (CLP Forms) <input type="checkbox"/> TRRP Checklist		<input type="checkbox"/> Level IV (Full Data Pkg/raw data) <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> UST / RG-411		Analytical Information		Matrix Codes		Analytical Information		Matrix Codes		Analytical Information		Matrix Codes	
TAT Starts Day received by Lab, if received by 5:00 pm SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY		Relinquished by Sampler: [Signature] Date Time: 11/12/20 16:15 Relinquished By: [Signature] Date Time: 11/12/20 16:15 Relinquished By: [Signature] Date Time: 11/12/20 16:15		Received By: [Signature] Date Time: 11/12/20 16:15 Received By: [Signature] Date Time: 11/12/20 16:15 Received By: [Signature] Date Time: 11/12/20 16:15		Relinquished By: [Signature] Date Time: 11/12/20 16:15 Relinquished By: [Signature] Date Time: 11/12/20 16:15 Relinquished By: [Signature] Date Time: 11/12/20 16:15		Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15		Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15		Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15		Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15		Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15		Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15	
Relinquished by: [Signature] Date Time: 11/12/20 16:15 Relinquished by: [Signature] Date Time: 11/12/20 16:15 Relinquished by: [Signature] Date Time: 11/12/20 16:15		Received By: [Signature] Date Time: 11/12/20 16:15 Received By: [Signature] Date Time: 11/12/20 16:15 Received By: [Signature] Date Time: 11/12/20 16:15		Relinquished By: [Signature] Date Time: 11/12/20 16:15 Relinquished By: [Signature] Date Time: 11/12/20 16:15 Relinquished By: [Signature] Date Time: 11/12/20 16:15		Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15		Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15		Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15		Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15		Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15		Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15		Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15	
Relinquished by: [Signature] Date Time: 11/12/20 16:15 Relinquished by: [Signature] Date Time: 11/12/20 16:15 Relinquished by: [Signature] Date Time: 11/12/20 16:15		Received By: [Signature] Date Time: 11/12/20 16:15 Received By: [Signature] Date Time: 11/12/20 16:15 Received By: [Signature] Date Time: 11/12/20 16:15		Relinquished By: [Signature] Date Time: 11/12/20 16:15 Relinquished By: [Signature] Date Time: 11/12/20 16:15 Relinquished By: [Signature] Date Time: 11/12/20 16:15		Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15		Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15		Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15		Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15		Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15		Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15		Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15 Date Time: 11/12/20 16:15	

Analyze 0-2' samples. Hold all deeper samples pending 0-2' results. 3 Day TAT

On Ice Cooler Temp. Thermo, Corr. Factor

677778



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas Texas (214-902-0300)

CHAIN OF CUSTODY

Page 3 of 6

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

Odessa, Texas (432-563-1800)
 Norcross, Georgia (770-449-8800)
 Lakeland, Florida (863-646-8526)
 Tampa, Florida (813-620-2000)

Client / Reporting Information
 Company Name / Branch: KJE Environmental & Civil Engineering
 Company Address: 500 Mosely Road, Cross Roads, Texas 76227
 Email: fredrick@kje-us.com Phone No: (940)387-0805
 Project Contact: Travis Reddick
 Project Name/Number: OWL100522D
 Project Location: Lea County
 Invoice To: Lea County
 PO Number: Offfield Water Logistics

No.	Field ID / Point of Collection	Collection			Number of preserved bottles										Matrix Codes					
		Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE						
1	SS-62 4-6'	4-6'	11/12/20	09:04	CS	1									X	BTEX 8260 (5035)	X	TPH	X	CHLORIDES
2	SS-62 6-8'	6-8'	11/12/20	09:06											X		X		X	
3	SS-62 8-10'	8-10'	11/12/20	09:08											X		X		X	
4	SS-62 10-11'	10-11'	11/12/20	09:10											X		X		X	
5	SS-63 0-2'	0-2'	11/12/20	09:14											X		X		X	
6	SS-63 2-4'	2-4'	11/12/20	09:16											X		X		X	
7	SS-63 4-6'	4-6'	11/12/20	09:18											X		X		X	
8	SS-63 6-8'	6-8'	11/12/20	09:20											X		X		X	
9	SS-63 8-10'	8-10'	11/12/20	09:22											X		X		X	
10	SS-64 0-2'	0-2'	11/12/20	09:26											X		X		X	

Turnaround Time (Business days)

Same Day TAT 5 Day TAT

Next Day EMERGENCY 7 Day TAT

2 Day EMERGENCY Contract TAT

3 Day EMERGENCY TRRP Checklist

TAT Starts Day received by Lab, if received by 5:00 pm

SAFETY CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished By: [Signature] Date Time: 11/12/20 16:15

Received By: [Signature] Date Time: 11-12-20 16:15

Relinquished By: [Signature] Date Time: 11-12-20 16:15

Received By: [Signature] Date Time: 11-12-20 16:15

Relinquished By: [Signature] Date Time: 11-12-20 16:15

Received By: [Signature] Date Time: 11-12-20 16:15

Notes: Analyze 0-2' samples. Hold all deeper samples pending 0-2' results. 3 Day TAT

Field Comments: S = Soil/Sed/Solid, GW = Ground Water, DW = Drinking Water, P = Product, SW = Surface water, SL = Sludge, OW = Ocean/Sea Water, W = Wipe, O = Oil, WW = Waste Water, A = Air

Signature: [Signature] Date Time: 11/12/20 16:15

Signature: [Signature] Date Time: 11/12/20 16:15

Signature: [Signature] Date Time: 11/12/20 16:15

Signature: [Signature] Date Time: 11/12/20 16:15

Signature: [Signature] Date Time: 11/12/20 16:15

6777778



Setting the Standard since 1990
Stafford, Texas (281-240-4200)
Dallas, Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

CHAIN OF CUSTODY

Page 4 of 6

Odessa, Texas (432-563-1800)
Norcross, Georgia (770-449-8800)
Lakeland, Florida (863-646-8526)
Tampa, Florida (813-620-2000)

6277778

Client / Reporting Information			Project Information			Analytical Information			Matrix Codes																			
Company Name / Branch: KJE, Environmental & Civil Engineering 500 Moseley Road, Cross Roads, Texas 76227 Phone No: (940)367-0805 Email: XXXXXXXXXXXXXXXXXXXX@KJE.COM +redick@kje-us.com			Project Name/Number: OVL10520D Project Location: Lee County Oilfield Water Logistics			Xenco Quote #			Xenco Job #																			
Project Contact: XXXXXXXXXXXXXXXXXXXX@KJE.COM Travis Reddick			Invoice To:			BTEX 8260 (5035)			TPH																			
Sampler's Name			PO Number:			CHLORIDES			Field Comments																			
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles																					
							HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX 8260 (5035)	TPH	CHLORIDES											
1	SS-64 2-4'	2-4'	11/12/20	09:28	CS	1																						
2	SS-64 4-6'	4-6'	11/12/20	09:30																								
3	SS-65 0-2'	0-2'	11/12/20	09:50																								
4	SS-65 2-4'	2-4'	11/12/20	09:52																								
5	SS-65 4-6'	4-6'	11/12/20	09:54																								
6	SS-65 6-7'	6-7'	11/12/20	09:56																								
7	SS-66 0-2'	0-2'	11/12/20	10:00																								
8	SS-66 2-4'	2-4'	11/12/20	10:02																								
9	SS-66 4-6'	4-6'	11/12/20	10:04																								
10	SS-66 6-7'	6-7'	11/12/20	10:06																								
Turnaround Time (Business days)						Data Deliverable Information						Notes:																
<input type="checkbox"/> Same Day TAT			<input type="checkbox"/> 5 Day TAT			<input type="checkbox"/> Level II Std QC						<input type="checkbox"/> Level IV (Full Data Pkg /raw data)																
<input type="checkbox"/> Next Day EMERGENCY			<input type="checkbox"/> 7 Day TAT			<input type="checkbox"/> Level III Std QC+ Forms						<input type="checkbox"/> TRRP Level IV																
<input type="checkbox"/> 2 Day EMERGENCY			<input type="checkbox"/> Contract TAT			<input type="checkbox"/> Level 3 (CLP Forms)						<input type="checkbox"/> UST / RG 411																
<input checked="" type="checkbox"/> 3 Day EMERGENCY						<input type="checkbox"/> TRRP Checklist																						
TAT Starts Day received by Lab, if received by 5:00 pm												FED-EX / UPS: Tracking #																
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																												
Relinquished by Sampler			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
1			8:30 AM			11/12/2020			16:15			11/12/2020			16:15													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
3						3			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:			Received By:			Date Time:			Relinquished By:			Date Time:													
5						5			4			4			4													
Relinquished By:			Date Time:																									



Setting the Standard since 1990

Stafford, Texas (281-240-4200)

Dallas, Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

CHAIN OF CUSTODY

Page 5 of 8

677778

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)

Xenco Quote #

Xenco Job #

Tampa, Florida (813-620-2000)

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes	
Company Name / Branch: KJE Environmental & Civil Engineering Company Address: 500 Mosely Road, Cross Roads, Texas 76227 Email: XXXXXXXXXX@KJE.com fred.dick@kje-us.com Phone No: (940)387-0805		Project Name/Number: XXXXXXXXXX OWL100520D Project Location: Lea County Invoice To: Oilfield Water Logistics PO Number:		Xenco Quote #		Xenco Job #	
Project Contact: XXXXXXXXXX Travis Reddick Samplers's Name		Field ID / Point of Collection		BTEX 8260 (5035)		TPH	
No.		Sample Depth		Matrix		# of bottles	
1		SS-67 0-2'		CS		F	
2		SS-67 2-4'					
3		SS-67 4-6'					
4		SS-68 0-2'					
5		SS-68 2-4'					
6		SS-68 4-6'					
7		SS-69 0-2'					
8		SS-69 2-4'					
9		SS-69 4-6'					
10		SS-69 6-7'					
Turnaround Time (Business days)		Collection Date		Time		Matrix	
		11/12/20		10:08		CS	
		11/12/20		10:10			
		11/12/20		10:12			
		11/12/20		10:20			
		11/12/20		10:22			
		11/12/20		10:24			
		11/12/20		10:30			
		11/12/20		10:32			
		11/12/20		10:34			
		11/12/20		10:36			
Data Deliverable Information		Level II Std QC		Level III Std QC+ Forms		Level IV (Full Data Pkg raw data)	
<input type="checkbox"/> Same Day TAT		<input type="checkbox"/> 5 Day TAT		<input type="checkbox"/> 7 Day TAT		<input type="checkbox"/> TRRP Level IV	
<input type="checkbox"/> Next Day EMERGENCY		<input type="checkbox"/> Contract TAT		<input type="checkbox"/> TRRP Level III		<input type="checkbox"/> UST / RG 411	
<input checked="" type="checkbox"/> 3 Day EMERGENCY		<input type="checkbox"/> TRRP Checklist					
TAT Starts Day received by Lab, if received by 5:00 pm		FED-EX / UPS: Tracking #		Notes:		Analyze 0-2' samples. Hold all deeper samples pending 0-2' results. 3 Day TAT	
Relinquished by Sample: S. Zick 11/12/2020		Date Time: 10:15		Received By: Joe Upps 11/20/20		Date Time: 10:15	
Relinquished by:		Date Time:		Received By:		Date Time:	
3		Date Time:		Received By:		Date Time:	
Relinquished by:		Date Time:		Received By:		Date Time:	
5		Date Time:		Received By:		Date Time:	



Setting the Standard since 1990

Stafford, Texas (281-240-4200)

Dallas, Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

CHAIN OF CUSTODY

Page 6 of 6

677778

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)
Tampa, Florida (813-620-2000)

www.xenco.com

Xenco Quote #

Xenco Job #

Client / Reporting Information			Project Information				Analytical Information				Matrix Codes				
Company Name / Branch: KJE, Environmental & Civil Engineering			Project Name/Number: OWC 100520D OWC 100520D				BTEX 8260 (5035)				S = Soil/Sed/Solid GW = Ground Water DW = Drinking Water P = Product SW = Surface water SL = Sludge OW = Ocean/Sea Water W = Wipe O = Oil WW = Waste Water A = Air				
Company Address: 500 Mosely Road, Cross Roads, Texas 76227			Project Location: Lea County				TPH								
Email: travis@kje-us.com travis@kje-us.com			Invoice To: Lea County				CHLORIDES								
Phone No: (940)387-0905			Offfield Water Logistics												
Project Contact: Travis Reddick			PO Number:												
Samplers's Name			Collection												
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Field Comments
1	SS-70 0-2'	0-2'	10:40	11/12/20	CS	2								X	
2	SS-70 2-4'	2-4'	10:42	11/12/20										X	
3	SS-70 4-6'	4-6'	10:44	11/12/20										X	
4	SS-70 6-8'	6-8'	10:46	11/12/20										X	
5	SS-70 8-10'	8-10'	10:48	11/12/20										X	
6	SS-70 10-11'	10-11'	10:50	11/12/20										X	
7															
8															
9															
10															

Notes: Analyze 0-2' samples. Hold all deeper samples pending 0-2' results
3 Day TAT

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: KJ Environmental & Civil Engineering

Date/ Time Received: 11.12.2020 04.15.00 PM

Work Order #: 677778

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : T_NM_007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	6.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6*Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

Samples received in bulk containers.

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 11.12.2020

Checklist reviewed by: Jessica Kramer Date: 11.13.2020



Certificate of Analysis Summary 677778

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.25.2020 15:30
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677778-001	677778-002	677778-003	677778-004	677778-008	677778-009						
	<i>Field Id:</i>	SS-56 0-2'	SS-56 2-4'	SS-56 4-6'	SS-57 0-2'	SS-58 0-2'	SS-59 0-2'						
	<i>Depth:</i>	0-2 ft	2-4 ft	4-6 ft	0-2 ft	0-2 ft	0-2 ft						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL						
	<i>Sampled:</i>	11.12.2020 08:10	11.12.2020 08:12	11.12.2020 08:14	11.12.2020 08:18	11.12.2020 08:28	11.12.2020 08:34						
BTEX by EPA 8021B	<i>Extracted:</i>	11.13.2020 09:59			11.13.2020 09:59	11.13.2020 09:59	11.13.2020 09:59						
	<i>Analyzed:</i>	11.13.2020 15:18			11.13.2020 15:41	11.13.2020 16:03	11.13.2020 16:26						
	<i>Units/RL:</i>	mg/kg	RL		mg/kg	RL	mg/kg	RL					
Benzene		<0.00202	0.00202		<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201			
Toluene		<0.00202	0.00202		<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201			
Ethylbenzene		<0.00202	0.00202		<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201			
m,p-Xylenes		<0.00403	0.00403		<0.00398	0.00398	<0.00398	0.00398	<0.00402	0.00402			
o-Xylene		<0.00202	0.00202		<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201			
Total Xylenes		<0.00202	0.00202		<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201			
Total BTEX		<0.00202	0.00202		<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201			
Chloride by EPA 300	<i>Extracted:</i>	11.13.2020 14:38		11.17.2020 15:52	11.24.2020 17:00		11.13.2020 14:38	11.13.2020 14:38		11.13.2020 14:38			
	<i>Analyzed:</i>	* * * * *		11.18.2020 16:21	11.25.2020 02:35		11.13.2020 14:40	11.13.2020 14:45		11.13.2020 14:51			
	<i>Units/RL:</i>	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		8280	198	13700	200	3080	50.1	23.9	9.98	11200	202	2240	99.0
TPH by SW8015 Mod	<i>Extracted:</i>	11.13.2020 11:48			11.13.2020 11:48		11.13.2020 11:48		11.13.2020 11:48				
	<i>Analyzed:</i>	11.13.2020 14:00			11.13.2020 15:14		11.13.2020 15:34		11.13.2020 15:54				
	<i>Units/RL:</i>	mg/kg	RL		mg/kg	RL	mg/kg	RL	mg/kg	RL			
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9		<50.0	50.0	<49.9	49.9	<49.9	49.9			
Diesel Range Organics (DRO)		<49.9	49.9		<50.0	50.0	<49.9	49.9	<49.9	49.9			
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9		<50.0	50.0	<49.9	49.9	<49.9	49.9			
Total TPH		<49.9	49.9		<50.0	50.0	<49.9	49.9	<49.9	49.9			

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677778

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.25.2020 15:30
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677778-010	677778-011	677778-012	677778-013	677778-014	677778-015
	<i>Field Id:</i>	SS-59 2-4	SS-59 4-6'	SS-59 6-7'	SS-60 0-2'	SS-60 2-4'	SS-61 0-2'
	<i>Depth:</i>	2-4 ft	4-6 ft	6-7 ft	0-2 ft	2-4 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.12.2020 08:36	11.12.2020 08:38	11.12.2020 08:40	11.12.2020 08:44	11.12.2020 08:46	11.12.2020 08:50
BTEX by EPA 8021B	<i>Extracted:</i>				11.13.2020 09:59		11.13.2020 09:59
	<i>Analyzed:</i>				11.13.2020 16:48		11.13.2020 17:11
	<i>Units/RL:</i>				mg/kg RL		mg/kg RL
Benzene					<0.00200 0.00200		<0.00199 0.00199
Toluene					<0.00200 0.00200		<0.00199 0.00199
Ethylbenzene					<0.00200 0.00200		<0.00199 0.00199
m,p-Xylenes					<0.00401 0.00401		<0.00398 0.00398
o-Xylene					<0.00200 0.00200		<0.00199 0.00199
Total Xylenes					<0.00200 0.00200		<0.00199 0.00199
Total BTEX					<0.00200 0.00200		<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i>	11.17.2020 15:52	11.24.2020 17:00	11.24.2020 17:00	11.13.2020 14:38	11.17.2020 15:52	11.13.2020 14:38
	<i>Analyzed:</i>	11.18.2020 16:33	11.25.2020 02:50	11.25.2020 02:55	11.13.2020 14:56	11.18.2020 16:27	11.13.2020 15:13
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		28.7 10.0	15.3 9.98	<10.1 10.1	11100 199	3900 49.8	16.3 10.1
TPH by SW8015 Mod	<i>Extracted:</i>				11.13.2020 11:48		11.13.2020 11:48
	<i>Analyzed:</i>				11.13.2020 16:14		11.13.2020 16:34
	<i>Units/RL:</i>				mg/kg RL		mg/kg RL
Gasoline Range Hydrocarbons (GRO)					<50.2 50.2		<49.8 49.8
Diesel Range Organics (DRO)					<50.2 50.2		<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)					<50.2 50.2		<49.8 49.8
Total TPH					<50.2 50.2		<49.8 49.8

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677778

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.25.2020 15:30
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677778-019	677778-025	677778-026	677778-027	677778-028	677778-029
	<i>Field Id:</i>	SS-62 0-2'	SS-63 0-2'	SS-63 2-4'	SS-63 4-6'	SS-63 6-8'	SS-63 8-10'
	<i>Depth:</i>	0-2 ft	0-2 ft	2-4 ft	4-6 ft	6-8 ft	8-10 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.12.2020 09:00	11.12.2020 09:14	11.12.2020 09:16	11.12.2020 09:18	11.12.2020 09:20	11.12.2020 09:22
BTEX by EPA 8021B	<i>Extracted:</i>	11.13.2020 09:59	11.13.2020 09:59				
	<i>Analyzed:</i>	11.13.2020 17:33	11.13.2020 17:56				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Benzene		<0.00201 0.00201	<0.00199 0.00199				
Toluene		<0.00201 0.00201	<0.00199 0.00199				
Ethylbenzene		<0.00201 0.00201	<0.00199 0.00199				
m,p-Xylenes		<0.00402 0.00402	<0.00398 0.00398				
o-Xylene		<0.00201 0.00201	<0.00199 0.00199				
Total Xylenes		<0.00201 0.00201	<0.00199 0.00199				
Total BTEX		<0.00201 0.00201	<0.00199 0.00199				
Chloride by EPA 300	<i>Extracted:</i>	11.13.2020 14:38	11.13.2020 14:38	11.17.2020 15:52	11.24.2020 17:00	11.24.2020 17:00	11.24.2020 17:00
	<i>Analyzed:</i>	11.13.2020 15:18	11.13.2020 15:24	11.18.2020 16:39	11.25.2020 03:01	11.25.2020 03:06	11.25.2020 03:11
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		13.3 9.98	1070 50.2	12.3 9.98	13.5 10.1	20.7 9.94	12.7 9.98
TPH by SW8015 Mod	<i>Extracted:</i>	11.13.2020 11:48	11.13.2020 11:48				
	<i>Analyzed:</i>	11.13.2020 16:54	11.13.2020 17:15				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<50.3 50.3	<49.9 49.9				
Diesel Range Organics (DRO)		<50.3 50.3	<49.9 49.9				
Motor Oil Range Hydrocarbons (MRO)		<50.3 50.3	<49.9 49.9				
Total TPH		<50.3 50.3	<49.9 49.9				

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677778

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.25.2020 15:30
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677778-030	677778-031	677778-032	677778-033	677778-037	677778-041						
	<i>Field Id:</i>	SS-64 0-2'	SS-64 2-4'	SS-64 4-6'	SS-65 0-2'	SS-66 0-2'	SS-67 0-2'						
	<i>Depth:</i>	0-2 ft	2-4 ft	4-6 ft	0-2 ft	0-2 ft	0-2 ft						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL						
	<i>Sampled:</i>	11.12.2020 09:26	11.12.2020 09:28	11.12.2020 09:30	11.12.2020 09:50	11.12.2020 10:00	11.12.2020 10:08						
BTEX by EPA 8021B	<i>Extracted:</i>	11.13.2020 09:59			11.13.2020 09:59	11.13.2020 09:59	11.13.2020 09:59						
	<i>Analyzed:</i>	11.13.2020 18:18			11.13.2020 18:41	11.13.2020 20:00	11.13.2020 20:23						
	<i>Units/RL:</i>	mg/kg	RL		mg/kg	RL	mg/kg	RL					
Benzene		<0.00198	0.00198		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200			
Toluene		<0.00198	0.00198		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200			
Ethylbenzene		<0.00198	0.00198		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200			
m,p-Xylenes		<0.00396	0.00396		<0.00396	0.00396	<0.00401	0.00401	<0.00399	0.00399			
o-Xylene		<0.00198	0.00198		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200			
Total Xylenes		<0.00198	0.00198		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200			
Total BTEX		<0.00198	0.00198		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200			
Chloride by EPA 300	<i>Extracted:</i>	11.13.2020 14:38		11.17.2020 15:52	11.24.2020 17:00		11.13.2020 14:38	11.13.2020 14:38		11.13.2020 14:38			
	<i>Analyzed:</i>	11.13.2020 15:29		11.18.2020 16:45	11.25.2020 03:16		11.13.2020 15:35	11.13.2020 15:40		11.13.2020 15:56			
	<i>Units/RL:</i>	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		5220	100	33.4	9.98	12.5	10.1	<9.94	9.94	<9.96	9.96	436	9.94
TPH by SW8015 Mod	<i>Extracted:</i>	11.13.2020 11:48				11.13.2020 11:48	11.13.2020 11:48		11.13.2020 11:48				
	<i>Analyzed:</i>	11.13.2020 17:35				11.13.2020 17:56	11.13.2020 18:35		11.13.2020 18:55				
	<i>Units/RL:</i>	mg/kg	RL			mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2			<49.8	49.8	<50.3	50.3	<49.8	49.8		
Diesel Range Organics (DRO)		<50.2	50.2			<49.8	49.8	<50.3	50.3	<49.8	49.8		
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2			<49.8	49.8	<50.3	50.3	<49.8	49.8		
Total TPH		<50.2	50.2			<49.8	49.8	<50.3	50.3	<49.8	49.8		

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677778

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.25.2020 15:30
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677778-044	677778-047	677778-051			
	<i>Field Id:</i>	SS-68 0-2'	SS-69 0-2'	SS-70 0-2'			
	<i>Depth:</i>	0-2 ft	0-2 ft	0-2 ft			
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	11.12.2020 10:20	11.12.2020 10:30	11.12.2020 10:40			
BTEX by EPA 8021B	<i>Extracted:</i>	11.13.2020 09:59	11.13.2020 09:59	11.13.2020 09:59			
	<i>Analyzed:</i>	11.13.2020 20:45	11.13.2020 21:08	11.13.2020 21:30			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200			
Toluene		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200			
Ethylbenzene		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200			
m,p-Xylenes		<0.00396 0.00396	<0.00397 0.00397	<0.00399 0.00399			
o-Xylene		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200			
Total Xylenes		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200			
Total BTEX		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200			
Chloride by EPA 300	<i>Extracted:</i>	11.13.2020 14:38	11.13.2020 14:38	11.13.2020 14:38			
	<i>Analyzed:</i>	11.13.2020 16:02	11.13.2020 16:18	11.13.2020 16:24			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		13.7 10.1	52.9 9.96	<10.1 10.1			
TPH by SW8015 Mod	<i>Extracted:</i>	11.13.2020 11:48	11.13.2020 11:48	11.13.2020 11:48			
	<i>Analyzed:</i>	11.13.2020 19:16	11.13.2020 19:36	11.13.2020 19:56			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9			
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9			
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9			
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9			

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer



Analytical Report 677778

for

KJ Environmental & Civil Engineering

Project Manager: Travis Reddick

OWL 100520 D

11.25.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



11.25.2020

Project Manager: **Travis Reddick**
KJ Environmental & Civil Engineering
500 Moseley Rd
Aubrey, TX 76227

Reference: Eurofins Xenco, LLC Report No(s): **677778**
OWL 100520 D
Project Address: Lea County, New Mexico

Travis Reddick:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 677778. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 677778 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 677778

KJ Environmental & Civil Engineering, Aubrey, TX

OWL 100520 D

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-56 0-2'	S	11.12.2020 08:10	0 - 2 ft	677778-001
SS-56 2-4'	S	11.12.2020 08:12	2 - 4 ft	677778-002
SS-56 4-6'	S	11.12.2020 08:14	4 - 6 ft	677778-003
SS-57 0-2'	S	11.12.2020 08:18	0 - 2 ft	677778-004
SS-58 0-2'	S	11.12.2020 08:28	0 - 2 ft	677778-008
SS-59 0-2'	S	11.12.2020 08:34	0 - 2 ft	677778-009
SS-59 2-4'	S	11.12.2020 08:36	2 - 4 ft	677778-010
SS-59 4-6'	S	11.12.2020 08:38	4 - 6 ft	677778-011
SS-59 6-7'	S	11.12.2020 08:40	6 - 7 ft	677778-012
SS-60 0-2'	S	11.12.2020 08:44	0 - 2 ft	677778-013
SS-60 2-4'	S	11.12.2020 08:46	2 - 4 ft	677778-014
SS-61 0-2'	S	11.12.2020 08:50	0 - 2 ft	677778-015
SS-62 0-2'	S	11.12.2020 09:00	0 - 2 ft	677778-019
SS-63 0-2'	S	11.12.2020 09:14	0 - 2 ft	677778-025
SS-63 2-4'	S	11.12.2020 09:16	2 - 4 ft	677778-026
SS-63 4-6'	S	11.12.2020 09:18	4 - 6 ft	677778-027
SS-63 6-8'	S	11.12.2020 09:20	6 - 8 ft	677778-028
SS-63 8-10'	S	11.12.2020 09:22	8 - 10 ft	677778-029
SS-64 0-2'	S	11.12.2020 09:26	0 - 2 ft	677778-030
SS-64 2-4'	S	11.12.2020 09:28	2 - 4 ft	677778-031
SS-64 4-6'	S	11.12.2020 09:30	4 - 6 ft	677778-032
SS-65 0-2'	S	11.12.2020 09:50	0 - 2 ft	677778-033
SS-66 0-2'	S	11.12.2020 10:00	0 - 2 ft	677778-037
SS-67 0-2'	S	11.12.2020 10:08	0 - 2 ft	677778-041
SS-68 0-2'	S	11.12.2020 10:20	0 - 2 ft	677778-044
SS-69 0-2'	S	11.12.2020 10:30	0 - 2 ft	677778-047
SS-70 0-2'	S	11.12.2020 10:40	0 - 2 ft	677778-051
SS-57 2-4'	S	11.12.2020 08:20	2 - 4 ft	Not Analyzed
SS-57 4-6'	S	11.12.2020 08:22	4 - 6 ft	Not Analyzed
SS-57 6-7'	S	11.12.2020 08:24	6 - 7 ft	Not Analyzed
SS-61 2-4'	S	11.12.2020 08:52	2 - 4 ft	Not Analyzed
SS-61 4-6'	S	11.12.2020 08:54	4 - 6 ft	Not Analyzed
SS-61 6-8'	S	11.12.2020 08:56	6 - 8 ft	Not Analyzed
SS-62 2-4'	S	11.12.2020 09:02	2 - 4 ft	Not Analyzed
SS-62 4-6'	S	11.12.2020 09:04	4 - 6 ft	Not Analyzed
SS-62 6-8'	S	11.12.2020 09:06	6 - 8 ft	Not Analyzed
SS-62 8-10'	S	11.12.2020 09:08	8 - 10 ft	Not Analyzed
SS-62 10-11'	S	11.12.2020 09:10	10 - 11 ft	Not Analyzed
SS-65 2-4'	S	11.12.2020 09:52	2 - 4 ft	Not Analyzed
SS-65 4-6'	S	11.12.2020 09:54	4 - 6 ft	Not Analyzed
SS-65 6-7'	S	11.12.2020 09:56	6 - 7 ft	Not Analyzed
SS-66 2-4'	S	11.12.2020 10:02	2 - 4 ft	Not Analyzed
SS-66 4-6'	S	11.12.2020 10:04	4 - 6 ft	Not Analyzed



Sample Cross Reference 677778

KJ Environmental & Civil Engineering, Aubrey, TX

OWL 100520 D

SS-66 6-7'	S	11.12.2020 10:06	6 - 7 ft	Not Analyzed
SS-67 2-4'	S	11.12.2020 10:10	2 - 4 ft	Not Analyzed
SS-67 4-6'	S	11.12.2020 10:12	4 - 6 ft	Not Analyzed
SS-68 2-4'	S	11.12.2020 10:22	2 - 4 ft	Not Analyzed
SS-68 4-6'	S	11.12.2020 10:24	4 - 5 ft	Not Analyzed
SS-69 2-4'	S	11.12.2020 10:32	2 - 4 ft	Not Analyzed
SS-69 4-6'	S	11.12.2020 10:34	4 - 6 ft	Not Analyzed
SS-69 6-7'	S	11.12.2020 10:36	6 - 7 ft	Not Analyzed
SS-70 2-4'	S	11.12.2020 10:42	2 - 4 ft	Not Analyzed
SS-70 4-6'	S	11.12.2020 10:44	4 - 6 ft	Not Analyzed
SS-70 6-8'	S	11.12.2020 10:46	6 - 8 ft	Not Analyzed
SS-70 8-10'	S	11.12.2020 10:48	8 - 10 ft	Not Analyzed
SS-70 10-11'	S	11.12.2020 10:50	10 - 11 ft	Not Analyzed



CASE NARRATIVE

Client Name: KJ Environmental & Civil Engineering

Project Name: OWL 100520 D

Project ID:
Work Order Number(s): 677778

Report Date: 11.25.2020
Date Received: 11.12.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-56 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-001 Date Collected: 11.12.2020 08:10 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8280	198	mg/kg	11.13.2020 14:23		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 14:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 14:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 14:00	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 14:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	11.13.2020 14:00	
o-Terphenyl	84-15-1	108	%	70-135	11.13.2020 14:00	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-56 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-001 Date Collected: 11.12.2020 08:10 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.13.2020 15:18	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.13.2020 15:18	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.13.2020 15:18	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.13.2020 15:18	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.13.2020 15:18	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	11.13.2020 15:18	U	1
Total BTEX		<0.00202	0.00202	mg/kg	11.13.2020 15:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.13.2020 15:18	
4-Bromofluorobenzene	460-00-4	114	%	70-130	11.13.2020 15:18	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-56 2-4'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677778-002	Date Collected: 11.12.2020 08:12	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 15:52	Basis: Wet Weight
Seq Number: 3142697		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13700	200	mg/kg	11.18.2020 16:21		20



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-56 4-6'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677778-003	Date Collected: 11.12.2020 08:14	Sample Depth: 4 - 6 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 17:00	Basis: Wet Weight
Seq Number: 3143301		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3080	50.1	mg/kg	11.25.2020 02:35		5



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-57 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-004 Date Collected: 11.12.2020 08:18 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	23.9	9.98	mg/kg	11.13.2020 14:40		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.13.2020 15:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.13.2020 15:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.13.2020 15:14	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.13.2020 15:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	11.13.2020 15:14	
o-Terphenyl	84-15-1	116	%	70-135	11.13.2020 15:14	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-57 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-004 Date Collected: 11.12.2020 08:18 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 15:41	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 15:41	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 15:41	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 15:41	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 15:41	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 15:41	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 15:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 15:41	
4-Bromofluorobenzene	460-00-4	116	%	70-130	11.13.2020 15:41	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-58 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-008 Date Collected: 11.12.2020 08:28 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11200	202	mg/kg	11.16.2020 11:38		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 15:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 15:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 15:34	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 15:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	11.13.2020 15:34	
o-Terphenyl	84-15-1	114	%	70-135	11.13.2020 15:34	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-58 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-008 Date Collected: 11.12.2020 08:28 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 16:03	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 16:03	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 16:03	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 16:03	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 16:03	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 16:03	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 16:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	11.13.2020 16:03	
4-Bromofluorobenzene	460-00-4	113	%	70-130	11.13.2020 16:03	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-59 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-009 Date Collected: 11.12.2020 08:34 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2240	99.0	mg/kg	11.13.2020 14:51		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 15:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 15:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 15:54	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 15:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-135	11.13.2020 15:54	
o-Terphenyl	84-15-1	112	%	70-135	11.13.2020 15:54	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-59 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-009 Date Collected: 11.12.2020 08:34 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.13.2020 16:26	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.13.2020 16:26	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.13.2020 16:26	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.13.2020 16:26	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.13.2020 16:26	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.13.2020 16:26	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.13.2020 16:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	11.13.2020 16:26	
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.13.2020 16:26	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-59 2-4	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677778-010	Date Collected: 11.12.2020 08:36	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 15:52	Basis: Wet Weight
Seq Number: 3142697		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	28.7	10.0	mg/kg	11.18.2020 16:33		1



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-59 4-6'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677778-011	Date Collected: 11.12.2020 08:38	Sample Depth: 4 - 6 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 17:00	Basis: Wet Weight
Seq Number: 3143301		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.3	9.98	mg/kg	11.25.2020 02:50		1



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-59 6-7'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-012 Date Collected: 11.12.2020 08:40 Sample Depth: 6 - 7 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.24.2020 17:00 % Moisture:
 Seq Number: 3143301 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.1	10.1	mg/kg	11.25.2020 02:55	U	1



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-60 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-013 Date Collected: 11.12.2020 08:44 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11100	199	mg/kg	11.13.2020 14:56		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 16:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.13.2020 16:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.13.2020 16:14	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.13.2020 16:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	11.13.2020 16:14	
o-Terphenyl	84-15-1	118	%	70-135	11.13.2020 16:14	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-60 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-013 Date Collected: 11.12.2020 08:44 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 16:48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 16:48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 16:48	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 16:48	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 16:48	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 16:48	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 16:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	11.13.2020 16:48	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.13.2020 16:48	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-60 2-4'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677778-014	Date Collected: 11.12.2020 08:46	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 15:52	Basis: Wet Weight
Seq Number: 3142697		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3900	49.8	mg/kg	11.18.2020 16:27		5



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-61 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-015 Date Collected: 11.12.2020 08:50 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.3	10.1	mg/kg	11.13.2020 15:13		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.13.2020 16:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.13.2020 16:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.13.2020 16:34	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.13.2020 16:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	11.13.2020 16:34	
o-Terphenyl	84-15-1	98	%	70-135	11.13.2020 16:34	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-61 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-015 Date Collected: 11.12.2020 08:50 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 17:11	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 17:11	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 17:11	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 17:11	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 17:11	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 17:11	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 17:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.13.2020 17:11	
4-Bromofluorobenzene	460-00-4	116	%	70-130	11.13.2020 17:11	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-62 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-019 Date Collected: 11.12.2020 09:00 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.3	9.98	mg/kg	11.13.2020 15:18		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.13.2020 16:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.13.2020 16:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.13.2020 16:54	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.13.2020 16:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-135	11.13.2020 16:54	
o-Terphenyl	84-15-1	106	%	70-135	11.13.2020 16:54	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-62 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-019 Date Collected: 11.12.2020 09:00 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.13.2020 17:33	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.13.2020 17:33	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.13.2020 17:33	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.13.2020 17:33	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.13.2020 17:33	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.13.2020 17:33	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.13.2020 17:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	11.13.2020 17:33	
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.13.2020 17:33	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-63 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-025 Date Collected: 11.12.2020 09:14 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1070	50.2	mg/kg	11.13.2020 15:24		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 17:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 17:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 17:15	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 17:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	11.13.2020 17:15	
o-Terphenyl	84-15-1	112	%	70-135	11.13.2020 17:15	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-63 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-025 Date Collected: 11.12.2020 09:14 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 17:56	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 17:56	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 17:56	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 17:56	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 17:56	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 17:56	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 17:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.13.2020 17:56	
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.13.2020 17:56	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-63 2-4'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677778-026	Date Collected: 11.12.2020 09:16	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 15:52	Basis: Wet Weight
Seq Number: 3142697		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.3	9.98	mg/kg	11.18.2020 16:39		1



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-63 4-6'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677778-027	Date Collected: 11.12.2020 09:18	Sample Depth: 4 - 6 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 17:00	Basis: Wet Weight
Seq Number: 3143301		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.5	10.1	mg/kg	11.25.2020 03:01		1



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-63 6-8'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677778-028	Date Collected: 11.12.2020 09:20	Sample Depth: 6 - 8 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 17:00	Basis: Wet Weight
Seq Number: 3143301		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20.7	9.94	mg/kg	11.25.2020 03:06		1



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-63 8-10'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677778-029	Date Collected: 11.12.2020 09:22	Sample Depth: 8 - 10 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 17:00	Basis: Wet Weight
Seq Number: 3143301		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.7	9.98	mg/kg	11.25.2020 03:11		1



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-64 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-030 Date Collected: 11.12.2020 09:26 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5220	100	mg/kg	11.13.2020 15:29		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 17:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.13.2020 17:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.13.2020 17:35	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.13.2020 17:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	11.13.2020 17:35	
o-Terphenyl	84-15-1	116	%	70-135	11.13.2020 17:35	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-64 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-030 Date Collected: 11.12.2020 09:26 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.13.2020 18:18	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.13.2020 18:18	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.13.2020 18:18	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	11.13.2020 18:18	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.13.2020 18:18	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.13.2020 18:18	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.13.2020 18:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	70-130	11.13.2020 18:18	
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.13.2020 18:18	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-64 2-4'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677778-031	Date Collected: 11.12.2020 09:28	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 15:52	Basis: Wet Weight
Seq Number: 3142697		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	33.4	9.98	mg/kg	11.18.2020 16:45		1



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-64 4-6'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677778-032	Date Collected: 11.12.2020 09:30	Sample Depth: 4 - 6 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 17:00	Basis: Wet Weight
Seq Number: 3143301		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.5	10.1	mg/kg	11.25.2020 03:16		1



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-65 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-033 Date Collected: 11.12.2020 09:50 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.94	9.94	mg/kg	11.13.2020 15:35	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.13.2020 17:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.13.2020 17:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.13.2020 17:56	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.13.2020 17:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	11.13.2020 17:56	
o-Terphenyl	84-15-1	108	%	70-135	11.13.2020 17:56	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-65 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-033 Date Collected: 11.12.2020 09:50 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.13.2020 18:41	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.13.2020 18:41	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.13.2020 18:41	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	11.13.2020 18:41	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.13.2020 18:41	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.13.2020 18:41	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.13.2020 18:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 18:41	
4-Bromofluorobenzene	460-00-4	121	%	70-130	11.13.2020 18:41	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-66 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-037 Date Collected: 11.12.2020 10:00 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.96	9.96	mg/kg	11.13.2020 15:40	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.13.2020 18:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.13.2020 18:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.13.2020 18:35	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.13.2020 18:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	11.13.2020 18:35	
o-Terphenyl	84-15-1	104	%	70-135	11.13.2020 18:35	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-66 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-037 Date Collected: 11.12.2020 10:00 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 20:00	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 20:00	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 20:00	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 20:00	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 20:00	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 20:00	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 20:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.13.2020 20:00	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.13.2020 20:00	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-67 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-041 Date Collected: 11.12.2020 10:08 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	436	9.94	mg/kg	11.13.2020 15:56		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.13.2020 18:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.13.2020 18:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.13.2020 18:55	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.13.2020 18:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	11.13.2020 18:55	
o-Terphenyl	84-15-1	118	%	70-135	11.13.2020 18:55	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-67 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-041 Date Collected: 11.12.2020 10:08 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 20:23	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 20:23	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 20:23	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.13.2020 20:23	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 20:23	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 20:23	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 20:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	11.13.2020 20:23	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.13.2020 20:23	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-68 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-044 Date Collected: 11.12.2020 10:20 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.7	10.1	mg/kg	11.13.2020 16:02		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.13.2020 19:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.13.2020 19:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.13.2020 19:16	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.13.2020 19:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	11.13.2020 19:16	
o-Terphenyl	84-15-1	106	%	70-135	11.13.2020 19:16	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-68 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-044 Date Collected: 11.12.2020 10:20 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.13.2020 20:45	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.13.2020 20:45	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.13.2020 20:45	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	11.13.2020 20:45	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.13.2020 20:45	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.13.2020 20:45	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.13.2020 20:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.13.2020 20:45	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.13.2020 20:45	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-69 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-047 Date Collected: 11.12.2020 10:30 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	52.9	9.96	mg/kg	11.13.2020 16:18		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.13.2020 19:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.13.2020 19:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.13.2020 19:36	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.13.2020 19:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	11.13.2020 19:36	
o-Terphenyl	84-15-1	110	%	70-135	11.13.2020 19:36	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-69 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-047 Date Collected: 11.12.2020 10:30 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.13.2020 21:08	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.13.2020 21:08	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.13.2020 21:08	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.13.2020 21:08	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.13.2020 21:08	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.13.2020 21:08	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.13.2020 21:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	122	%	70-130	11.13.2020 21:08	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.13.2020 21:08	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-70 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-051 Date Collected: 11.12.2020 10:40 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.1	10.1	mg/kg	11.13.2020 16:24	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 19:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 19:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 19:56	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 19:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-135	11.13.2020 19:56	
o-Terphenyl	84-15-1	104	%	70-135	11.13.2020 19:56	



Certificate of Analytical Results 677778

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-70 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677778-051 Date Collected: 11.12.2020 10:40 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 21:30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 21:30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 21:30	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.13.2020 21:30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 21:30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 21:30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 21:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	11.13.2020 21:30	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.13.2020 21:30	



KJ Environmental & Civil Engineering
OWL 100520 D

Analytical Method: Chloride by EPA 300

Seq Number: 3142335
MB Sample Id: 7715158-1-BLK

Matrix: Solid
LCS Sample Id: 7715158-1-BKS

Prep Method: E300P
Date Prep: 11.13.2020
LCSD Sample Id: 7715158-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	249	100	245	98	90-110	2	20	mg/kg	11.13.2020 14:12	

Analytical Method: Chloride by EPA 300

Seq Number: 3142697
MB Sample Id: 7715393-1-BLK

Matrix: Solid
LCS Sample Id: 7715393-1-BKS

Prep Method: E300P
Date Prep: 11.17.2020
LCSD Sample Id: 7715393-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	300	279	93	277	92	90-110	1	20	mg/kg	11.18.2020 14:38	

Analytical Method: Chloride by EPA 300

Seq Number: 3143301
MB Sample Id: 7715951-1-BLK

Matrix: Solid
LCS Sample Id: 7715951-1-BKS

Prep Method: E300P
Date Prep: 11.24.2020
LCSD Sample Id: 7715951-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	245	98	246	98	90-110	0	20	mg/kg	11.25.2020 00:51	

Analytical Method: Chloride by EPA 300

Seq Number: 3142335
Parent Sample Id: 677778-001

Matrix: Soil
MS Sample Id: 677778-001 S

Prep Method: E300P
Date Prep: 11.13.2020
MSD Sample Id: 677778-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8280	199	8490	106	8500	110	90-110	0	20	mg/kg	11.13.2020 14:29	

Analytical Method: Chloride by EPA 300

Seq Number: 3142335
Parent Sample Id: 677778-037

Matrix: Soil
MS Sample Id: 677778-037 S

Prep Method: E300P
Date Prep: 11.13.2020
MSD Sample Id: 677778-037 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	198	99	203	102	90-110	2	20	mg/kg	11.13.2020 15:45	

Analytical Method: Chloride by EPA 300

Seq Number: 3142697
Parent Sample Id: 677780-023

Matrix: Soil
MS Sample Id: 677780-023 S

Prep Method: E300P
Date Prep: 11.17.2020
MSD Sample Id: 677780-023 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	28.4	198	247	110	247	110	90-110	0	20	mg/kg	11.18.2020 17:21	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
 OWL 100520 D

Analytical Method: Chloride by EPA 300

Seq Number: 3142697
 Parent Sample Id: 678096-008

Matrix: Soil
 MS Sample Id: 678096-008 S

Prep Method: E300P
 Date Prep: 11.17.2020
 MSD Sample Id: 678096-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1920	199	2130	106	2120	101	90-110	0	20	mg/kg	11.18.2020 14:56	

Analytical Method: Chloride by EPA 300

Seq Number: 3143301
 Parent Sample Id: 677769-017

Matrix: Soil
 MS Sample Id: 677769-017 S

Prep Method: E300P
 Date Prep: 11.24.2020
 MSD Sample Id: 677769-017 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<9.94	199	202	102	203	102	90-110	0	20	mg/kg	11.25.2020 01:07	

Analytical Method: Chloride by EPA 300

Seq Number: 3143301
 Parent Sample Id: 677769-051

Matrix: Soil
 MS Sample Id: 677769-051 S

Prep Method: E300P
 Date Prep: 11.24.2020
 MSD Sample Id: 677769-051 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5470	202	5690	109	5650	91	90-110	1	20	mg/kg	11.25.2020 02:19	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142309
 MB Sample Id: 7715199-1-BLK

Matrix: Solid
 LCS Sample Id: 7715199-1-BKS

Prep Method: SW8015P
 Date Prep: 11.13.2020
 LCSD Sample Id: 7715199-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1090	109	1140	114	70-135	4	35	mg/kg	11.13.2020 13:20	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	1120	112	70-135	6	35	mg/kg	11.13.2020 13:20	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	130		114		110		70-135	%	11.13.2020 13:20
o-Terphenyl	125		110		110		70-135	%	11.13.2020 13:20

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142309

Matrix: Solid
 MB Sample Id: 7715199-1-BLK

Prep Method: SW8015P
 Date Prep: 11.13.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.13.2020 13:00	

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

[D] = 100*(C-A) / B
 RPD = 200* | (C-E) / (C+E) |
 [D] = 100 * (C) / [B]
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
OWL 100520 D

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142309

Parent Sample Id: 677778-001

Matrix: Soil

MS Sample Id: 677778-001 S

Prep Method: SW8015P

Date Prep: 11.13.2020

MSD Sample Id: 677778-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	999	1130	113	1040	104	70-135	8	35	mg/kg	11.13.2020 14:20	
Diesel Range Organics (DRO)	<50.0	999	1010	101	1120	112	70-135	10	35	mg/kg	11.13.2020 14:20	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		107		70-135	%	11.13.2020 14:20
o-Terphenyl	116		98		70-135	%	11.13.2020 14:20

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142319

MB Sample Id: 7715122-1-BLK

Matrix: Solid

LCS Sample Id: 7715122-1-BKS

Prep Method: SW5035A

Date Prep: 11.13.2020

LCSD Sample Id: 7715122-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0905	91	0.0952	95	70-130	5	35	mg/kg	11.13.2020 13:13	
Toluene	<0.00200	0.100	0.0848	85	0.0908	91	70-130	7	35	mg/kg	11.13.2020 13:13	
Ethylbenzene	<0.00200	0.100	0.0872	87	0.0917	92	71-129	5	35	mg/kg	11.13.2020 13:13	
m,p-Xylenes	<0.00400	0.200	0.179	90	0.187	94	70-135	4	35	mg/kg	11.13.2020 13:13	
o-Xylene	<0.00200	0.100	0.0890	89	0.0927	93	71-133	4	35	mg/kg	11.13.2020 13:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		100		101		70-130	%	11.13.2020 13:13
4-Bromofluorobenzene	114		101		109		70-130	%	11.13.2020 13:13

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142319

Parent Sample Id: 677778-001

Matrix: Soil

MS Sample Id: 677778-001 S

Prep Method: SW5035A

Date Prep: 11.13.2020

MSD Sample Id: 677778-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.106	106	0.0873	87	70-130	19	35	mg/kg	11.13.2020 13:58	
Toluene	<0.00200	0.100	0.0992	99	0.0768	77	70-130	25	35	mg/kg	11.13.2020 13:58	
Ethylbenzene	<0.00200	0.100	0.0997	100	0.0724	72	71-129	32	35	mg/kg	11.13.2020 13:58	
m,p-Xylenes	<0.00401	0.200	0.202	101	0.147	73	70-135	32	35	mg/kg	11.13.2020 13:58	
o-Xylene	<0.00200	0.100	0.0997	100	0.0732	73	71-133	31	35	mg/kg	11.13.2020 13:58	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		105		70-130	%	11.13.2020 13:58
4-Bromofluorobenzene	106		113		70-130	%	11.13.2020 13:58

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas, Texas (214-902-4300)
 Service Center - San Antonio, Texas (210-509-3334)

CHAIN OF CUSTODY

Page 1 of 6

www.xenco.com

Odessa, Texas (432-563-1800)
 Norcross, Georgia (770-449-8800)
 Lakeland, Florida (863-646-8526)
 Tampa, Florida (813-620-2000)

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes											
Company Name / Branch: KJE Environmental & Civil Engineering		Project Name/Number: -GWL100520D															
Company Address: 500 Mosely Road, Cross Roads, Texas 76227		Project Location: Lea County															
Email: fred@kje-us.com Phone No: (940)387-0805		Invoice To: Offfield Water Logistics															
Project Contact: Travis Reddick		PO Number:															
Sampler's Name																	
No.	Field ID / Point of Collection	Collection		Number of preserved bottles						Notes:							
		Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3		H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX 8260 (5035)	TPH
1	SS-5b 0-2'	0-2'	11/12/20	08:10	CS	1								X	X	X	
2	SS-5b 2-4'	2-4'	11/12/20	08:12										X	X	X	
3	SS-5b 4-6'	4-6'	11/12/20	08:14										X	X	X	
4	SS-57 0-2'	0-2'	11/12/20	08:18										X	X	X	
5	SS-57 2-4'	2-4'	11/12/20	08:20										X	X	X	
6	SS-57 4-6'	4-6'	11/12/20	08:22										X	X	X	
7	SS-57 6-7'	6-7'	11/12/20	08:24										X	X	X	
8	SS-58 0-2'	0-2'	11/12/20	08:28										X	X	X	
9	SS-59 0-2'	0-2'	11/12/20	08:34										X	X	X	
10	SS-59 2-4'	2-4'	11/12/20	08:36										X	X	X	

Notes: Analyze 0-2' samples Hold all deeper samples pending 0-2' results, 3 Day TAT

TAT Starts Day received by Lab, if received by 5:00 pm

Relinquished by Sampler: S. Cable Date Time: 11/12/2020 16:15

Received By: [Signature] Date Time: 11/17/20 16:15

Relinquished by: [Signature] Date Time: [Blank]

Received By: [Signature] Date Time: [Blank]

Relinquished by: [Signature] Date Time: [Blank]

677778



Setting the Standard since 1990

Stafford, Texas (281-240-4200)

Dallas, Texas (214-902-4300)

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

CHAIN OF CUSTODY

Page 2 of 4

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Xenco Quote #

Xenco Job #

Lakeland, Florida (853-646-8526)

Tampa, Florida (813-620-2000)

677778

Client / Reporting Information Company Name / Branch: KJE, Environmental & Civil Engineering Company Address: 500 Moseley Road, Cross Roads, Texas 76227 Email: XXXXXXXXXXXX@XXXXXX Phone No: (940)387-0805 Project Contact: Travis Peddick Project Email: trpeddick@kje-us.com Samplers Name: Travis Peddick		Project Information Project Name/Number: ENVIRONMENTAL OIL 100520D Project Location: Len County Invoice To: Offfield Water Logistics PO Number:		Analytical Information BTEX 8260 (5035) TPH CHLORIDES		Matrix Codes S = Soil/Sed/Solid GW = Ground Water DW = Drinking Water P = Product SW = Surface water SL = Sludge OW = Ocean/Sea Water W = Wipe O = Oil WW = Waste Water A = Air	
No.	Field ID / Point of Collection	Collection	Number of preserved bottles	Data Deliverable Information		Notes	
1	SS-59 4-6'	Sample Depth: 4-6' Date: 11/12/20 Time: 08:38 Matrix: CS # of bottles: 1	HCl NaOH/Zn Acetate HNO3 H2SO4 NaOH NaHSO4 MEOH NONE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
2	SS-59 6-7'	Sample Depth: 6-7' Date: 11/12/20 Time: 08:40 Matrix: CS # of bottles: 1	HCl NaOH/Zn Acetate HNO3 H2SO4 NaOH NaHSO4 MEOH NONE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
3	SS-60 0-2'	Sample Depth: 0-2' Date: 11/12/20 Time: 08:44 Matrix: CS # of bottles: 1	HCl NaOH/Zn Acetate HNO3 H2SO4 NaOH NaHSO4 MEOH NONE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
4	SS-60 2-4'	Sample Depth: 2-4' Date: 11/12/20 Time: 08:46 Matrix: CS # of bottles: 1	HCl NaOH/Zn Acetate HNO3 H2SO4 NaOH NaHSO4 MEOH NONE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
5	SS-61 0-2'	Sample Depth: 0-2' Date: 11/12/20 Time: 08:50 Matrix: CS # of bottles: 1	HCl NaOH/Zn Acetate HNO3 H2SO4 NaOH NaHSO4 MEOH NONE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
6	SS-61 2-4'	Sample Depth: 2-4' Date: 11/12/20 Time: 08:52 Matrix: CS # of bottles: 1	HCl NaOH/Zn Acetate HNO3 H2SO4 NaOH NaHSO4 MEOH NONE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7	SS-61 4-6'	Sample Depth: 4-6' Date: 11/12/20 Time: 08:54 Matrix: CS # of bottles: 1	HCl NaOH/Zn Acetate HNO3 H2SO4 NaOH NaHSO4 MEOH NONE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
8	SS-61 6-8'	Sample Depth: 6-8' Date: 11/12/20 Time: 08:56 Matrix: CS # of bottles: 1	HCl NaOH/Zn Acetate HNO3 H2SO4 NaOH NaHSO4 MEOH NONE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
9	SS-62 0-2'	Sample Depth: 0-2' Date: 11/12/20 Time: 09:00 Matrix: CS # of bottles: 1	HCl NaOH/Zn Acetate HNO3 H2SO4 NaOH NaHSO4 MEOH NONE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
10	SS-62 2-4'	Sample Depth: 2-4' Date: 11/12/20 Time: 09:02 Matrix: CS # of bottles: 1	HCl NaOH/Zn Acetate HNO3 H2SO4 NaOH NaHSO4 MEOH NONE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Turnaround Time (Business days) _____ TAT Starts Day received by Lab, if received by 5:00 pm _____ SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY.							
<input type="checkbox"/> Same Day TAT <input type="checkbox"/> Next Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input checked="" type="checkbox"/> 3 Day EMERGENCY		<input type="checkbox"/> 5 Day TAT <input type="checkbox"/> 7 Day TAT <input type="checkbox"/> Contract TAT <input type="checkbox"/> TRRP Checklist		<input type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC+ Forms <input type="checkbox"/> Level 3 (CLP Forms) <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> UST / RG-411		<input type="checkbox"/> Level IV (Full Data Pkg/raw data)	
Relinquished by Sampler: [Signature] Date Time: 11/12/20 16:15 Relinquished by: [Signature] Date Time: 11/12/20 16:15 Relinquished by: _____ Date Time: _____ Relinquished by: _____ Date Time: _____ Relinquished by: _____ Date Time: _____							
Relinquished by: _____ Date Time: _____ Relinquished by: _____ Date Time: _____		Received By: [Signature] Date Time: 11/12/20 16:15 Received By: [Signature] Date Time: 11/12/20 16:15 Received By: _____ Date Time: _____ Received By: _____ Date Time: _____		Custody Seal # _____ Preserved where applicable _____ On Ice <input type="checkbox"/> Cooler Temp. _____ Thermo, Corr. Factor _____		FED-EX / UPS: Tracking # _____ Received By: _____ Received By: _____ Received By: _____	



Setting the Standard since 1990

Stafford, Texas (281-240-4200)

Dallas Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

CHAIN OF CUSTODY

Page 4 of 6

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)
Tampa, Florida (813-620-2000)

6277778

Client / Reporting Information				Project Information				Analytical Information				Matrix Codes						
Company Name / Branch: K/E, Environmental & Civil Engineering				Project Name/Number: OVL100520D														
Company Address: 500 Moseley Road, Cross Roads, Texas 76227				Project Location: Lea County														
Email: XXXXXXXXXXXXXXXXXXXX +reddick@k/e-us.com				Invoice To: Oilfield Water Logistics														
Phone No: (940)367-0805				PO Number:														
Project Contact: XXXXXXXXXXXXXXXXXXXX Travis Reddick																		
Sampler's Name																		
No.	Field ID / Point of Collection	Sample Depth	Collection Date	Time	Matrix	# of bottles	Number of preserved bottles						Field Comments					
1	SS-b4 2-4'	2-4'	11/12/20	09:28	CS	1	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	X	X	X	
2	SS-b4 4-6'	4-6'	11/12/20	09:30											X	X	X	
3	SS-b5 0-2'	0-2'	11/12/20	09:50											X	X	X	
4	SS-b5 2-4'	2-4'	11/12/20	09:52											X	X	X	
5	SS-b5 4-6'	4-6'	11/12/20	09:54											X	X	X	
6	SS-b5 6-7'	6-7'	11/12/20	09:56											X	X	X	
7	SS-b6 0-2'	0-2'	11/12/20	10:00											X	X	X	
8	SS-b6 2-4'	2-4'	11/12/20	10:02											X	X	X	
9	SS-b6 4-6'	4-6'	11/12/20	10:04											X	X	X	
10	SS-b6 6-7'	6-7'	11/12/20	10:06											X	X	X	
Turnaround Time (Business days)													Data Deliverable Information		Notes:			
<input type="checkbox"/> Same Day TAT				<input type="checkbox"/> 5 Day TAT				<input type="checkbox"/> Level II Std QC				<input type="checkbox"/> Level IV (Full Data Pkg raw data)		Analyze 0-2' samples. Hold all deeper samples pending 0-2' results.				
<input type="checkbox"/> Next Day EMERGENCY				<input type="checkbox"/> 7 Day TAT				<input type="checkbox"/> Level III Std QC+ Forms				<input type="checkbox"/> TRRP Level IV		3 Day TAT				
<input type="checkbox"/> 2 Day EMERGENCY				<input type="checkbox"/> Contract TAT				<input type="checkbox"/> Level 3 (CLP Forms)				<input type="checkbox"/> UST / RG 411						
<input checked="" type="checkbox"/> 3 Day EMERGENCY				<input type="checkbox"/> TRRP Checklist														
TAT Starts Day received by Lab. if received by 5:00 pm													FED-EX / UPS: Tracking #					
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																		
Relinquished by Sampler:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Received By:		
1		11/12/2020		S. Z...		11/12/20 16:15		K. C. P...		11/12/20 16:15		K. C. P...		11/12/20 16:15		K. C. P...		
3																		
5																		
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously negotiated under a fully executed client contract.													Cooler Temp. 10.8/16.0		Thermo. Corr. Factor			



Setting the Standard since 1990

Stafford, Texas (281-240-4200)

Dallas, Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)

Tampa, Florida (813-620-2000)

CHAIN OF CUSTODY

Page 5 of 8

677778

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes								
Company Name / Branch: KJE, Environmental & Civil Engineering Company Address: 500 Mosely Road, Cross Roads, Texas 76227 Email: XXXXXXXXXX@KJE.com fredrick@kje-us.com Phone No: (940)387-0805		Project Name/Number: 021102190 OWC 100520D Project Location: Lea County Invoice To: Oilfield Water Logistics PO Number:		Xenoco Quote #		Xenoco Job #								
Project Contact: XXXXXXXXXX Travis Reddick		Field ID / Point of Collection		Number of preserved bottles		Field Comments								
Samplers Name		Collection		BTEX 8260 (5035)		TPH								
				CHLORIDES										
No.	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Notes
1	SS-67 0-2'	11/12/20	10:08	CS	1								X	
2	SS-67 2-4'	11/12/20	10:10										X	
3	SS-67 4-6'	11/12/20	10:12										X	
4	SS-68 0-2'	11/12/20	10:20										X	
5	SS-68 2-4'	11/12/20	10:22										X	
6	SS-68 4-6'	11/12/20	10:24										X	
7	SS-69 0-2'	11/12/20	10:30										X	
8	SS-69 2-4'	11/12/20	10:32										X	
9	SS-69 4-6'	11/12/20	10:34										X	
10	SS-69 6-7'	11/12/20	10:36										X	

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously negotiated under a fully executed client contract.

TAT Starts Day received by Lab, if received by 5:00 pm

Relinquished by: *S. Zick* Date Time: *11/12/2020 16:15*

Relinquished by: *Joe Upp* Date Time: *11/20/2016 15*

Relinquished by: *[Signature]* Date Time: *[Signature]*

Relinquished by: *[Signature]* Date Time: *[Signature]*

Relinquished by: *[Signature]* Date Time: *[Signature]*

Same Day TAT 5 Day TAT

Next Day EMERGENCY 7 Day TAT

2 Day EMERGENCY Contract TAT

3 Day EMERGENCY TRRP Checklist

Level II Std QC Level IV (Full Data Pkg raw data)

Level III Std QC+ Forms TRRP Level IV

Level 3 (CLP Forms) UST / RG 411

ANALYZE 0-2' Samples. Hold all deeper samples pending 0-2' results.

3 Day TAT

FED-EX / UPS: Tracking # *[Blank]*

On Ice Cooler Temp. *1.5/6.6* Thermo. Corr. Factor *[Blank]*



Setting the Standard since 1990

Stafford, Texas (281-240-4200)

Dallas, Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

CHAIN OF CUSTODY

Page 6 of 6

677778

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)
Tampa, Florida (813-620-2000)

Xenco Quote #

Xenco Job #

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes	
Company Name / Branch: KJE, Environmental & Civil Engineering		Project Name/Number: Owl 100520D		Xenco Quote #		Xenco Job #	
Company Address: 500 Mosely Road, Cross Roads, Texas 76227		Project Location: lea County		Invoice To: Oilfield Water Logistics			
Email: XXXXXXXXXX		Phone No: (940)387-0905		PO Number:			
Project Contact: Travis Reddick		Project Contact: trredick@kje-us.com		Field ID / Point of Collection			
Samplers's Name		Turnaround Time (Business days)		Data Deliverable Information		Notes:	
No.	Field ID / Point of Collection	Sample Depth	Collection Date	Time	Matrix	# of bottles	Number of preserved bottles
1	SS-70 0-2'	0-2'	10:40	11/12/10	CS	2	
2	SS-70 2-4'	2-4'	10:42	11/12/10			
3	SS-70 4-6'	4-6'	10:44	11/12/10			
4	SS-70 6-8'	6-8'	10:46	11/12/10			
5	SS-70 8-10'	8-10'	10:48	11/12/10			
6	SS-70 10-11'	10-11'	10:50	11/12/10			
7							
8							
9							
10							
<input type="checkbox"/> Same Day TAT		<input type="checkbox"/> 5 Day TAT		<input type="checkbox"/> Level II Std QC		<input type="checkbox"/> Level IV (Full Data Pig raw data)	
<input type="checkbox"/> Next Day EMERGENCY		<input type="checkbox"/> 7 Day TAT		<input type="checkbox"/> Level III Std QC+ Forms		<input type="checkbox"/> TRRP Level IV	
<input type="checkbox"/> 2 Day EMERGENCY		<input type="checkbox"/> Contract TAT		<input type="checkbox"/> Level 3 (CLP Forms)		<input type="checkbox"/> UST / RG 411	
<input checked="" type="checkbox"/> 3 Day EMERGENCY				<input type="checkbox"/> TRRP Checklist			
TAT Starts Day received by Lab, if received by 5:00 pm		SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY		FED-EX / UPS: Tracking #			
Relinquished by Sampler		Date Time:		Received By:		Date Time:	
1 S. Caldwell		11/12/2010 16:15		1 Joe Gabe		11-12-2010 15	
Relinquished by:		Date Time:		Received By:		Date Time:	
3				3			
Relinquished by:		Date Time:		Received By:		Date Time:	
5				5			
Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously negotiated under a fully executed client contract.		Custody Seal #		Preserved where applicable		On Ice	
						Cooler Temp. 1.8/6.6 Thermo. Corr. Factor	

S = Soil/Sed/Solid
 GW = Ground Water
 DW = Drinking Water
 P = Product
 SW = Surface water
 SL = Sludge
 OW = Ocean/Sea Water
 W = Wipe
 O = Oil
 WW = Waste Water
 A = Air

Notes:
 Analyze 0-2' samples. Hold all deeper samples pending 0-2' results
 3 Day TAT

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: KJ Environmental & Civil Engineering

Date/ Time Received: 11.12.2020 04.15.00 PM

Work Order #: 677778

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	6.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6*Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

Samples received in bulk containers.

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 11.12.2020

Checklist reviewed by: Jessica Kramer Date: 11.13.2020



Certificate of Analysis Summary 677780

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.16.2020 13:22
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677780-001	677780-002	677780-005	677780-008	677780-010	677780-013
	<i>Field Id:</i>	SS-37 0-2'	SS-38 0-2'	SS-39 0-2'	SS-40 0-2'	SS-41 0-2'	SS-42 0-2'
	<i>Depth:</i>	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.11.2020 12:50	11.11.2020 13:00	11.11.2020 13:16	11.11.2020 13:24	11.11.2020 13:30	11.11.2020 13:58
BTEX by EPA 8021B	<i>Extracted:</i>	11.13.2020 09:59	11.13.2020 09:59	11.13.2020 09:59	11.13.2020 09:59	11.13.2020 09:59	11.13.2020 10:00
	<i>Analyzed:</i>	11.13.2020 21:53	11.13.2020 22:15	11.13.2020 22:38	11.13.2020 23:00	11.13.2020 23:22	11.13.2020 12:49
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00198 0.00198
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00198 0.00198
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00198 0.00198
m,p-Xylenes		<0.00398 0.00398	<0.00400 0.00400	<0.00398 0.00398	<0.00398 0.00398	<0.00403 0.00403	<0.00397 0.00397
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00198 0.00198
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00198 0.00198
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00198 0.00198
Chloride by EPA 300	<i>Extracted:</i>	11.13.2020 14:38	11.13.2020 14:38	11.13.2020 14:38	11.13.2020 14:38	11.13.2020 14:38	11.13.2020 14:42
	<i>Analyzed:</i>	11.13.2020 16:29	11.13.2020 16:35	11.13.2020 16:40	11.13.2020 16:46	11.13.2020 16:51	11.13.2020 17:24
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		27.8 9.92	13.8 10.0	40.8 10.0	6740 99.0	15.2 9.98	19.7 9.92
TPH by SW8015 Mod	<i>Extracted:</i>	11.13.2020 11:48	11.13.2020 11:48	11.13.2020 11:48	11.13.2020 11:48	11.13.2020 11:48	11.13.2020 12:00
	<i>Analyzed:</i>	11.13.2020 20:16	11.13.2020 20:36	11.13.2020 20:56	11.13.2020 21:17	11.13.2020 21:37	11.13.2020 14:00
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.9 49.9	<49.9 49.9	<50.2 50.2	<50.1 50.1	<50.3 50.3
Diesel Range Organics (DRO)		<49.9 49.9	<49.9 49.9	<49.9 49.9	<50.2 50.2	<50.1 50.1	<50.3 50.3
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.9 49.9	<49.9 49.9	<50.2 50.2	<50.1 50.1	<50.3 50.3
Total TPH		<49.9 49.9	<49.9 49.9	<49.9 49.9	<50.2 50.2	<50.1 50.1	<50.3 50.3

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677780

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.16.2020 13:22
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677780-016	677780-019	677780-022	677780-024	677780-028	677780-031
	<i>Field Id:</i>	SS-43 0-2'	SS-44 0-2'	SS-45 0-2'	SS-46 0-2'	SS-47 0-2'	SS-48 0-2'
	<i>Depth:</i>	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.11.2020 14:04	11.11.2020 14:10	11.11.2020 14:18	11.11.2020 14:28	11.11.2020 14:38	11.11.2020 14:46
BTEX by EPA 8021B	<i>Extracted:</i>	11.13.2020 10:00	11.13.2020 10:00	11.13.2020 10:00	11.13.2020 10:00	11.13.2020 10:00	11.13.2020 10:00
	<i>Analyzed:</i>	11.13.2020 13:11	11.13.2020 13:33	11.13.2020 14:51	11.13.2020 15:14	11.13.2020 15:36	11.13.2020 15:59
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00401 0.00401	<0.00401 0.00401	<0.00399 0.00399	<0.00397 0.00397	<0.00401 0.00401	<0.00399 0.00399
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	11.13.2020 14:42	11.13.2020 14:42	11.13.2020 14:42	11.13.2020 14:42	11.13.2020 14:42	11.13.2020 14:42
	<i>Analyzed:</i>	11.13.2020 17:41	11.13.2020 17:46	11.13.2020 17:52	11.13.2020 17:57	11.13.2020 18:03	11.13.2020 18:19
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1410 50.5	471 10.1	7920 99.4	12.9 10.0	2010 101	21.4 9.90
TPH by SW8015 Mod	<i>Extracted:</i>	11.13.2020 12:00	11.13.2020 12:00	11.13.2020 12:00	11.13.2020 12:00	11.13.2020 12:00	11.13.2020 12:00
	<i>Analyzed:</i>	11.13.2020 15:14	11.13.2020 15:34	11.13.2020 15:54	11.13.2020 16:14	11.13.2020 16:34	11.13.2020 16:54
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<49.9 49.9	<50.3 50.3	<50.1 50.1	<50.3 50.3	<50.2 50.2
Diesel Range Organics (DRO)		<49.8 49.8	<49.9 49.9	<50.3 50.3	<50.1 50.1	<50.3 50.3	<50.2 50.2
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<49.9 49.9	<50.3 50.3	<50.1 50.1	<50.3 50.3	<50.2 50.2
Total TPH		<49.8 49.8	<49.9 49.9	<50.3 50.3	<50.1 50.1	<50.3 50.3	<50.2 50.2

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677780

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.16.2020 13:22
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677780-034	677780-037	677780-041	677780-045	677780-049	677780-053
	<i>Field Id:</i>	SS-49 0-2'	SS-50 0-2'	SS-51 0-2'	SS-52 0-2'	SS-53 0-2'	SS-54 0-2'
	<i>Depth:</i>	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.11.2020 14:54	11.11.2020 15:00	11.11.2020 15:20	11.11.2020 15:40	11.11.2020 15:50	11.11.2020 16:00
BTEX by EPA 8021B	<i>Extracted:</i>	11.13.2020 10:00	11.13.2020 10:00	11.13.2020 10:00	11.13.2020 10:00	11.13.2020 10:00	11.13.2020 10:00
	<i>Analyzed:</i>	11.13.2020 16:21	11.13.2020 16:43	11.13.2020 17:06	11.13.2020 17:28	11.13.2020 17:51	11.13.2020 18:13
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202
m,p-Xylenes		<0.00399 0.00399	<0.00401 0.00401	<0.00401 0.00401	<0.00401 0.00401	<0.00402 0.00402	<0.00404 0.00404
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202
Chloride by EPA 300	<i>Extracted:</i>	11.13.2020 14:42	11.13.2020 14:42	11.13.2020 14:42	11.13.2020 14:42	11.13.2020 14:42	11.13.2020 14:42
	<i>Analyzed:</i>	11.13.2020 18:25	11.13.2020 18:30	11.13.2020 18:36	11.13.2020 18:41	11.13.2020 18:58	11.13.2020 19:03
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		862 50.2	41.0 9.96	11900 199	134 10.0	13.4 10.0	797 10.0
TPH by SW8015 Mod	<i>Extracted:</i>	11.13.2020 12:00	11.13.2020 12:00	11.13.2020 12:00	11.13.2020 12:00	11.13.2020 12:00	11.13.2020 12:00
	<i>Analyzed:</i>	11.13.2020 17:15	11.13.2020 17:35	11.13.2020 17:56	11.13.2020 18:35	11.13.2020 18:55	11.13.2020 19:16
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<50.2 50.2	<50.1 50.1	<50.3 50.3	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<50.2 50.2	869 50.2	<50.1 50.1	<50.3 50.3	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	91.9 50.2	<50.1 50.1	<50.3 50.3	<50.0 50.0	<49.9 49.9
Total TPH		<50.2 50.2	961 50.2	<50.1 50.1	<50.3 50.3	<50.0 50.0	<49.9 49.9

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677780

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.16.2020 13:22
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677780-055	677780-058				
	<i>Field Id:</i>	SS-55 0-2'	SS-36 0-2'				
	<i>Depth:</i>	0-2 ft	0-2 ft				
	<i>Matrix:</i>	SOIL	SOIL				
	<i>Sampled:</i>	11.11.2020 16:10	11.11.2020 00:00				
BTEX by EPA 8021B	<i>Extracted:</i>	11.13.2020 17:37	11.13.2020 17:37				
	<i>Analyzed:</i>	11.13.2020 21:56	11.13.2020 22:19				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Benzene		<0.00200 0.00200	<0.00199 0.00199				
Toluene		<0.00200 0.00200	<0.00199 0.00199				
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199				
m,p-Xylenes		<0.00401 0.00401	<0.00398 0.00398				
o-Xylene		<0.00200 0.00200	<0.00199 0.00199				
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199				
Total BTEX		<0.00200 0.00200	<0.00199 0.00199				
Chloride by EPA 300	<i>Extracted:</i>	11.13.2020 14:42	11.13.2020 14:42				
	<i>Analyzed:</i>	11.13.2020 19:20	11.13.2020 19:25				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Chloride		174 9.96	2200 100				
TPH by SW8015 Mod	<i>Extracted:</i>	11.13.2020 12:00	11.13.2020 12:00				
	<i>Analyzed:</i>	11.13.2020 19:36	11.13.2020 19:56				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1	<50.2 50.2				
Diesel Range Organics (DRO)		<50.1 50.1	<50.2 50.2				
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1	<50.2 50.2				
Total TPH		<50.1 50.1	<50.2 50.2				

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer



Analytical Report 677780

for

KJ Environmental & Civil Engineering

Project Manager: Travis Reddick

OWL 100520 D

11.16.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



11.16.2020

Project Manager: **Travis Reddick**
KJ Environmental & Civil Engineering
500 Moseley Rd
Aubrey, TX 76227

Reference: Eurofins Xenco, LLC Report No(s): **677780**
OWL 100520 D
Project Address: Lea County, New Mexico

Travis Reddick:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 677780. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 677780 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 677780

KJ Environmental & Civil Engineering, Aubrey, TX

OWL 100520 D

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-37 0-2'	S	11.11.2020 12:50	0 - 2 ft	677780-001
SS-38 0-2'	S	11.11.2020 13:00	0 - 2 ft	677780-002
SS-39 0-2'	S	11.11.2020 13:16	0 - 2 ft	677780-005
SS-40 0-2'	S	11.11.2020 13:24	0 - 2 ft	677780-008
SS-41 0-2'	S	11.11.2020 13:30	0 - 2 ft	677780-010
SS-42 0-2'	S	11.11.2020 13:58	0 - 2 ft	677780-013
SS-43 0-2'	S	11.11.2020 14:04	0 - 2 ft	677780-016
SS-44 0-2'	S	11.11.2020 14:10	0 - 2 ft	677780-019
SS-45 0-2'	S	11.11.2020 14:18	0 - 2 ft	677780-022
SS-46 0-2'	S	11.11.2020 14:28	0 - 2 ft	677780-024
SS-47 0-2'	S	11.11.2020 14:38	0 - 2 ft	677780-028
SS-48 0-2'	S	11.11.2020 14:46	0 - 2 ft	677780-031
SS-49 0-2'	S	11.11.2020 14:54	0 - 2 ft	677780-034
SS-50 0-2'	S	11.11.2020 15:00	0 - 2 ft	677780-037
SS-51 0-2'	S	11.11.2020 15:20	0 - 2 ft	677780-041
SS-52 0-2'	S	11.11.2020 15:40	0 - 2 ft	677780-045
SS-53 0-2'	S	11.11.2020 15:50	0 - 2 ft	677780-049
SS-54 0-2'	S	11.11.2020 16:00	0 - 2 ft	677780-053
SS-55 0-2'	S	11.11.2020 16:10	0 - 2 ft	677780-055
SS-36 0-2'	S	11.11.2020 00:00	0 - 2 ft	677780-058
SS-38 2-4'	S	11.11.2020 13:02	2 - 4 ft	Not Analyzed
SS-38 4-6'	S	11.11.2020 13:04	4 - 6 ft	Not Analyzed
SS-39 2-4'	S	11.11.2020 13:18	2 - 4 ft	Not Analyzed
SS-39 4-5'	S	11.11.2020 13:20	4 - 5 ft	Not Analyzed
SS-40 2-4'	S	11.11.2020 13:26	2 - 4 ft	Not Analyzed
SS-41 2-4'	S	11.11.2020 13:32	2 - 4 ft	Not Analyzed
SS-41 4-6'	S	11.11.2020 13:34	4 - 6 ft	Not Analyzed
SS-42 2-4'	S	11.11.2020 14:00	2 - 4 ft	Not Analyzed
SS-42 4-5'	S	11.11.2020 14:02	4 - 5 ft	Not Analyzed
SS-43 2-4'	S	11.11.2020 14:06	2 - 4 ft	Not Analyzed
SS-43 4-5'	S	11.11.2020 14:08	4 - 5 ft	Not Analyzed
SS-44 2-4'	S	11.11.2020 14:12	2 - 4 ft	Not Analyzed
SS-44 4-5'	S	11.11.2020 14:14	4 - 5 ft	Not Analyzed
SS-45 2-4'	S	11.11.2020 14:20	2 - 4 ft	Not Analyzed
SS-46 2-4'	S	11.11.2020 14:30	2 - 4 ft	Not Analyzed
SS-46 4-6'	S	11.11.2020 14:32	4 - 6 ft	Not Analyzed
SS-46 6-8'	S	11.11.2020 14:34	6 - 8 ft	Not Analyzed
SS-47 2-4'	S	11.11.2020 14:40	2 - 4 ft	Not Analyzed
SS-47 4-5'	S	11.11.2020 14:42	4 - 5 ft	Not Analyzed
SS-48 2-4'	S	11.11.2020 14:48	2 - 4 ft	Not Analyzed
SS-48 4-6'	S	11.11.2020 14:50	4 - 6 ft	Not Analyzed
SS-49 2-4'	S	11.11.2020 14:56	2 - 4 ft	Not Analyzed
SS-49 4-5'	S	11.11.2020 14:58	4 - 5 ft	Not Analyzed



Sample Cross Reference 677780

KJ Environmental & Civil Engineering, Aubrey, TX

OWL 100520 D

SS-50 2-4'	S	11.11.2020 15:02	2 - 4 ft	Not Analyzed
SS-50 4-6'	S	11.11.2020 15:04	4 - 6 ft	Not Analyzed
SS-50 6-7'	S	11.11.2020 15:06	6 - 7 ft	Not Analyzed
SS-51 2-4'	S	11.11.2020 15:22	2 - 4 ft	Not Analyzed
SS-51 4-6'	S	11.11.2020 15:24	4 - 6 ft	Not Analyzed
SS-51 6-8'	S	11.11.2020 15:26	6 - 8 ft	Not Analyzed
SS-52 2-4'	S	11.11.2020 15:42	2 - 4 ft	Not Analyzed
SS-52 4-6'	S	11.11.2020 15:44	4 - 6 ft	Not Analyzed
SS-52 6-8'	S	11.11.2020 15:46	6 - 8 ft	Not Analyzed
SS-53 2-4'	S	11.11.2020 15:52	2 - 4 ft	Not Analyzed
SS-53 4-6'	S	11.11.2020 15:54	4 - 6 ft	Not Analyzed
SS-53 6-8'	S	11.11.2020 15:56	6 - 8 ft	Not Analyzed
SS-54 2-4'	S	11.11.2020 16:02	2 - 4 ft	Not Analyzed
SS-55 2-4'	S	11.11.2020 16:12	2 - 4 ft	Not Analyzed
SS-28 6-8'	S	11.11.2020 00:00	6 - 8 ft	Not Analyzed
SS-36 2-4'	S	11.11.2020 00:00	2 - 4 ft	Not Analyzed
SS-36 4-6'	S	11.11.2020 00:00	4 - 6 ft	Not Analyzed



CASE NARRATIVE

Client Name: KJ Environmental & Civil Engineering

Project Name: OWL 100520 D

Project ID:
Work Order Number(s): 677780

Report Date: 11.16.2020
Date Received: 11.12.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-37 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-001 Date Collected: 11.11.2020 12:50 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	27.8	9.92	mg/kg	11.13.2020 16:29		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 20:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 20:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 20:16	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 20:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	11.13.2020 20:16	
o-Terphenyl	84-15-1	98	%	70-135	11.13.2020 20:16	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-37 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-001 Date Collected: 11.11.2020 12:50 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 21:53	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 21:53	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 21:53	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 21:53	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 21:53	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 21:53	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 21:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.13.2020 21:53	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 21:53	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-38 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-002 Date Collected: 11.11.2020 13:00 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.8	10.0	mg/kg	11.13.2020 16:35		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 20:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 20:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 20:36	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 20:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	11.13.2020 20:36	
o-Terphenyl	84-15-1	112	%	70-135	11.13.2020 20:36	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-38 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-002 Date Collected: 11.11.2020 13:00 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 22:15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 22:15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 22:15	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	11.13.2020 22:15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 22:15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 22:15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 22:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.13.2020 22:15	
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.13.2020 22:15	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-39 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-005 Date Collected: 11.11.2020 13:16 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	40.8	10.0	mg/kg	11.13.2020 16:40		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 20:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 20:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 20:56	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 20:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	11.13.2020 20:56	
o-Terphenyl	84-15-1	116	%	70-135	11.13.2020 20:56	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-39 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-005 Date Collected: 11.11.2020 13:16 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 22:38	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 22:38	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 22:38	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 22:38	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 22:38	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 22:38	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 22:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.13.2020 22:38	
4-Bromofluorobenzene	460-00-4	114	%	70-130	11.13.2020 22:38	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-40 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-008 Date Collected: 11.11.2020 13:24 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6740	99.0	mg/kg	11.13.2020 16:46		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 21:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.13.2020 21:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.13.2020 21:17	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.13.2020 21:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-135	11.13.2020 21:17	
o-Terphenyl	84-15-1	104	%	70-135	11.13.2020 21:17	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-40 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-008 Date Collected: 11.11.2020 13:24 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 23:00	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 23:00	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 23:00	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 23:00	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 23:00	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 23:00	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 23:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.13.2020 23:00		
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.13.2020 23:00		



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-41 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-010 Date Collected: 11.11.2020 13:30 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.2	9.98	mg/kg	11.13.2020 16:51		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.13.2020 21:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.13.2020 21:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.13.2020 21:37	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.13.2020 21:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	11.13.2020 21:37	
o-Terphenyl	84-15-1	112	%	70-135	11.13.2020 21:37	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX
 OWL 100520 D

Sample Id: **SS-41 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-010 Date Collected: 11.11.2020 13:30 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.13.2020 23:22	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.13.2020 23:22	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.13.2020 23:22	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.13.2020 23:22	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.13.2020 23:22	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	11.13.2020 23:22	U	1
Total BTEX		<0.00202	0.00202	mg/kg	11.13.2020 23:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.13.2020 23:22	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.13.2020 23:22	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-42 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-013 Date Collected: 11.11.2020 13:58 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.7	9.92	mg/kg	11.13.2020 17:24		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.13.2020 14:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.13.2020 14:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.13.2020 14:00	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.13.2020 14:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	11.13.2020 14:00	
o-Terphenyl	84-15-1	108	%	70-135	11.13.2020 14:00	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-42 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-013 Date Collected: 11.11.2020 13:58 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.13.2020 12:49	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.13.2020 12:49	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.13.2020 12:49	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.13.2020 12:49	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.13.2020 12:49	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.13.2020 12:49	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.13.2020 12:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 12:49	
4-Bromofluorobenzene	460-00-4	87	%	70-130	11.13.2020 12:49	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-43 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-016 Date Collected: 11.11.2020 14:04 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1410	50.5	mg/kg	11.13.2020 17:41		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.13.2020 15:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.13.2020 15:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.13.2020 15:14	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.13.2020 15:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	11.13.2020 15:14	
o-Terphenyl	84-15-1	106	%	70-135	11.13.2020 15:14	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX
 OWL 100520 D

Sample Id: SS-43 0-2'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677780-016	Date Collected: 11.11.2020 14:04	Sample Depth: 0 - 2 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		
Analyst: MAB	Date Prep: 11.13.2020 10:00	% Moisture:
Seq Number: 3142232		Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 13:11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 13:11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 13:11	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 13:11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 13:11	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 13:11	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 13:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.13.2020 13:11	
4-Bromofluorobenzene	460-00-4	89	%	70-130	11.13.2020 13:11	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-44 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-019 Date Collected: 11.11.2020 14:10 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	471	10.1	mg/kg	11.13.2020 17:46		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 15:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 15:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 15:34	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 15:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	11.13.2020 15:34	
o-Terphenyl	84-15-1	112	%	70-135	11.13.2020 15:34	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-44 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-019 Date Collected: 11.11.2020 14:10 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 13:33	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 13:33	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 13:33	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 13:33	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 13:33	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 13:33	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 13:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 13:33	
4-Bromofluorobenzene	460-00-4	88	%	70-130	11.13.2020 13:33	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-45 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-022 Date Collected: 11.11.2020 14:18 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7920	99.4	mg/kg	11.13.2020 17:52		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.13.2020 15:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.13.2020 15:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.13.2020 15:54	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.13.2020 15:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	11.13.2020 15:54	
o-Terphenyl	84-15-1	116	%	70-135	11.13.2020 15:54	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-45 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-022 Date Collected: 11.11.2020 14:18 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 14:51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 14:51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 14:51	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.13.2020 14:51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 14:51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 14:51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 14:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	87	%	70-130	11.13.2020 14:51	
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.13.2020 14:51	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-46 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-024 Date Collected: 11.11.2020 14:28 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.9	10.0	mg/kg	11.13.2020 17:57		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.13.2020 16:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.13.2020 16:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.13.2020 16:14	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.13.2020 16:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-135	11.13.2020 16:14	
o-Terphenyl	84-15-1	98	%	70-135	11.13.2020 16:14	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-46 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-024 Date Collected: 11.11.2020 14:28 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.13.2020 15:14	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.13.2020 15:14	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.13.2020 15:14	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.13.2020 15:14	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.13.2020 15:14	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.13.2020 15:14	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.13.2020 15:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	11.13.2020 15:14	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 15:14	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-47 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-028 Date Collected: 11.11.2020 14:38 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2010	101	mg/kg	11.13.2020 18:03		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.13.2020 16:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.13.2020 16:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.13.2020 16:34	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.13.2020 16:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	11.13.2020 16:34	
o-Terphenyl	84-15-1	116	%	70-135	11.13.2020 16:34	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-47 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-028 Date Collected: 11.11.2020 14:38 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 15:36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 15:36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 15:36	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 15:36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 15:36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 15:36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 15:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 15:36	
4-Bromofluorobenzene	460-00-4	88	%	70-130	11.13.2020 15:36	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-48 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-031 Date Collected: 11.11.2020 14:46 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21.4	9.90	mg/kg	11.13.2020 18:19		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 16:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.13.2020 16:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.13.2020 16:54	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.13.2020 16:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-135	11.13.2020 16:54	
o-Terphenyl	84-15-1	124	%	70-135	11.13.2020 16:54	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-48 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-031 Date Collected: 11.11.2020 14:46 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 15:59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 15:59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 15:59	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.13.2020 15:59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 15:59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 15:59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 15:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	88	%	70-130	11.13.2020 15:59	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 15:59	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-49 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-034 Date Collected: 11.11.2020 14:54 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	862	50.2	mg/kg	11.13.2020 18:25		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 17:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.13.2020 17:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.13.2020 17:15	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.13.2020 17:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-135	11.13.2020 17:15	
o-Terphenyl	84-15-1	106	%	70-135	11.13.2020 17:15	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX
 OWL 100520 D

Sample Id: **SS-49 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-034 Date Collected: 11.11.2020 14:54 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 16:21	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 16:21	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 16:21	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.13.2020 16:21	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 16:21	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 16:21	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 16:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.13.2020 16:21	
4-Bromofluorobenzene	460-00-4	88	%	70-130	11.13.2020 16:21	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-50 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-037 Date Collected: 11.11.2020 15:00 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	41.0	9.96	mg/kg	11.13.2020 18:30		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 17:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	869	50.2	mg/kg	11.13.2020 17:35		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	91.9	50.2	mg/kg	11.13.2020 17:35		1
Total TPH	PHC635	961	50.2	mg/kg	11.13.2020 17:35		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	11.13.2020 17:35	
o-Terphenyl	84-15-1	102	%	70-135	11.13.2020 17:35	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX
 OWL 100520 D

Sample Id: **SS-50 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-037 Date Collected: 11.11.2020 15:00 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 16:43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 16:43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 16:43	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 16:43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 16:43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 16:43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 16:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.13.2020 16:43	
4-Bromofluorobenzene	460-00-4	86	%	70-130	11.13.2020 16:43	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-51 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-041 Date Collected: 11.11.2020 15:20 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11900	199	mg/kg	11.13.2020 18:36		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.13.2020 17:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.13.2020 17:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.13.2020 17:56	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.13.2020 17:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	11.13.2020 17:56	
o-Terphenyl	84-15-1	98	%	70-135	11.13.2020 17:56	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-51 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-041 Date Collected: 11.11.2020 15:20 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 17:06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 17:06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 17:06	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 17:06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 17:06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 17:06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 17:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 17:06	
4-Bromofluorobenzene	460-00-4	91	%	70-130	11.13.2020 17:06	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-52 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-045 Date Collected: 11.11.2020 15:40 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	134	10.0	mg/kg	11.13.2020 18:41		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.13.2020 18:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.13.2020 18:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.13.2020 18:35	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.13.2020 18:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	11.13.2020 18:35	
o-Terphenyl	84-15-1	98	%	70-135	11.13.2020 18:35	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-52 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-045 Date Collected: 11.11.2020 15:40 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 17:28	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 17:28	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 17:28	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 17:28	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 17:28	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 17:28	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 17:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	70-130	11.13.2020 17:28	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 17:28	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-53 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-049 Date Collected: 11.11.2020 15:50 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.4	10.0	mg/kg	11.13.2020 18:58		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.13.2020 18:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.13.2020 18:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.13.2020 18:55	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.13.2020 18:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	11.13.2020 18:55	
o-Terphenyl	84-15-1	106	%	70-135	11.13.2020 18:55	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-53 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-049 Date Collected: 11.11.2020 15:50 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.13.2020 17:51	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.13.2020 17:51	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.13.2020 17:51	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.13.2020 17:51	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.13.2020 17:51	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.13.2020 17:51	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.13.2020 17:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 17:51	
4-Bromofluorobenzene	460-00-4	89	%	70-130	11.13.2020 17:51	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-54 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-053 Date Collected: 11.11.2020 16:00 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	797	10.0	mg/kg	11.13.2020 19:03		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 19:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 19:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 19:16	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 19:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	11.13.2020 19:16	
o-Terphenyl	84-15-1	114	%	70-135	11.13.2020 19:16	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-54 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-053 Date Collected: 11.11.2020 16:00 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.13.2020 18:13	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.13.2020 18:13	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.13.2020 18:13	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	11.13.2020 18:13	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.13.2020 18:13	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	11.13.2020 18:13	U	1
Total BTEX		<0.00202	0.00202	mg/kg	11.13.2020 18:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	11.13.2020 18:13	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.13.2020 18:13	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-55 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-055 Date Collected: 11.11.2020 16:10 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	174	9.96	mg/kg	11.13.2020 19:20		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.13.2020 19:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.13.2020 19:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.13.2020 19:36	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.13.2020 19:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	11.13.2020 19:36	
o-Terphenyl	84-15-1	102	%	70-135	11.13.2020 19:36	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-55 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-055 Date Collected: 11.11.2020 16:10 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 17:37 % Moisture:
 Seq Number: 3142322 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 21:56	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 21:56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 21:56	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 21:56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 21:56	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 21:56	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 21:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	87	%	70-130	11.13.2020 21:56	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.13.2020 21:56	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-36 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-058 Date Collected: 11.11.2020 00:00 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2200	100	mg/kg	11.13.2020 19:25		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 19:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.13.2020 19:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.13.2020 19:56	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.13.2020 19:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	11.13.2020 19:56	
o-Terphenyl	84-15-1	98	%	70-135	11.13.2020 19:56	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-36 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-058 Date Collected: 11.11.2020 00:00 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 17:37 % Moisture:
 Seq Number: 3142322 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 22:19	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 22:19	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 22:19	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 22:19	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 22:19	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 22:19	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 22:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	70-130	11.13.2020 22:19	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.13.2020 22:19	



KJ Environmental & Civil Engineering
 OWL 100520 D

Analytical Method: Chloride by EPA 300

Seq Number: 3142335
 MB Sample Id: 7715158-1-BLK

Matrix: Solid
 LCS Sample Id: 7715158-1-BKS

Prep Method: E300P
 Date Prep: 11.13.2020
 LCSD Sample Id: 7715158-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	249	100	245	98	90-110	2	20	mg/kg	11.13.2020 14:12	

Analytical Method: Chloride by EPA 300

Seq Number: 3142336
 MB Sample Id: 7715159-1-BLK

Matrix: Solid
 LCS Sample Id: 7715159-1-BKS

Prep Method: E300P
 Date Prep: 11.13.2020
 LCSD Sample Id: 7715159-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	249	100	244	98	90-110	2	20	mg/kg	11.13.2020 17:13	

Analytical Method: Chloride by EPA 300

Seq Number: 3142335
 Parent Sample Id: 677778-001

Matrix: Soil
 MS Sample Id: 677778-001 S

Prep Method: E300P
 Date Prep: 11.13.2020
 MSD Sample Id: 677778-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8280	199	8490	106	8500	110	90-110	0	20	mg/kg	11.13.2020 14:29	

Analytical Method: Chloride by EPA 300

Seq Number: 3142335
 Parent Sample Id: 677778-037

Matrix: Soil
 MS Sample Id: 677778-037 S

Prep Method: E300P
 Date Prep: 11.13.2020
 MSD Sample Id: 677778-037 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	198	99	203	102	90-110	2	20	mg/kg	11.13.2020 15:45	

Analytical Method: Chloride by EPA 300

Seq Number: 3142336
 Parent Sample Id: 677780-013

Matrix: Soil
 MS Sample Id: 677780-013 S

Prep Method: E300P
 Date Prep: 11.13.2020
 MSD Sample Id: 677780-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	19.7	199	213	97	217	99	90-110	2	20	mg/kg	11.13.2020 17:30	

Analytical Method: Chloride by EPA 300

Seq Number: 3142336
 Parent Sample Id: 677780-045

Matrix: Soil
 MS Sample Id: 677780-045 S

Prep Method: E300P
 Date Prep: 11.13.2020
 MSD Sample Id: 677780-045 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	134	201	327	96	334	99	90-110	2	20	mg/kg	11.13.2020 18:47	

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

[D] = 100*(C-A) / B
 RPD = 200* | (C-E) / (C+E) |
 [D] = 100 * (C) / [B]
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
 OWL 100520 D

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142309

Matrix: Solid

Prep Method: SW8015P

Date Prep: 11.13.2020

MB Sample Id: 7715199-1-BLK

LCS Sample Id: 7715199-1-BKS

LCSD Sample Id: 7715199-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1090	109	1140	114	70-135	4	35	mg/kg	11.13.2020 13:20	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	1120	112	70-135	6	35	mg/kg	11.13.2020 13:20	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	130		114		110		70-135	%	11.13.2020 13:20
o-Terphenyl	125		110		110		70-135	%	11.13.2020 13:20

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142310

Matrix: Solid

Prep Method: SW8015P

Date Prep: 11.13.2020

MB Sample Id: 7715200-1-BLK

LCS Sample Id: 7715200-1-BKS

LCSD Sample Id: 7715200-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	952	95	983	98	70-135	3	35	mg/kg	11.13.2020 13:20	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	1090	109	70-135	3	35	mg/kg	11.13.2020 13:20	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		129		119		70-135	%	11.13.2020 13:20
o-Terphenyl	102		102		103		70-135	%	11.13.2020 13:20

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142309

Matrix: Solid

Prep Method: SW8015P

Date Prep: 11.13.2020

MB Sample Id: 7715199-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.13.2020 13:00	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142310

Matrix: Solid

Prep Method: SW8015P

Date Prep: 11.13.2020

MB Sample Id: 7715200-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.13.2020 13:00	

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
OWL 100520 D

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142309

Parent Sample Id: 677778-001

Matrix: Soil

MS Sample Id: 677778-001 S

Prep Method: SW8015P

Date Prep: 11.13.2020

MSD Sample Id: 677778-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	999	1130	113	1040	104	70-135	8	35	mg/kg	11.13.2020 14:20	
Diesel Range Organics (DRO)	<50.0	999	1010	101	1120	112	70-135	10	35	mg/kg	11.13.2020 14:20	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		107		70-135	%	11.13.2020 14:20
o-Terphenyl	116		98		70-135	%	11.13.2020 14:20

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142310

Parent Sample Id: 677780-013

Matrix: Soil

MS Sample Id: 677780-013 S

Prep Method: SW8015P

Date Prep: 11.13.2020

MSD Sample Id: 677780-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	1120	112	1030	103	70-135	8	35	mg/kg	11.13.2020 14:20	
Diesel Range Organics (DRO)	<50.1	1000	1090	109	1120	112	70-135	3	35	mg/kg	11.13.2020 14:20	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	117		113		70-135	%	11.13.2020 14:20
o-Terphenyl	108		118		70-135	%	11.13.2020 14:20

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142232

MB Sample Id: 7715121-1-BLK

Matrix: Solid

LCS Sample Id: 7715121-1-BKS

Prep Method: SW5035A

Date Prep: 11.13.2020

LCSD Sample Id: 7715121-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.103	103	70-130	2	35	mg/kg	11.13.2020 08:09	
Toluene	<0.00200	0.100	0.0957	96	0.0973	97	70-130	2	35	mg/kg	11.13.2020 08:09	
Ethylbenzene	<0.00200	0.100	0.0868	87	0.0879	88	71-129	1	35	mg/kg	11.13.2020 08:09	
m,p-Xylenes	<0.00400	0.200	0.175	88	0.179	90	70-135	2	35	mg/kg	11.13.2020 08:09	
o-Xylene	<0.00200	0.100	0.0882	88	0.0892	89	71-133	1	35	mg/kg	11.13.2020 08:09	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		99		99		70-130	%	11.13.2020 08:09
4-Bromofluorobenzene	89		86		86		70-130	%	11.13.2020 08:09

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
OWL 100520 D

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142319

Matrix: Solid

Prep Method: SW5035A

Date Prep: 11.13.2020

MB Sample Id: 7715122-1-BLK

LCS Sample Id: 7715122-1-BKS

LCSD Sample Id: 7715122-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0905	91	0.0952	95	70-130	5	35	mg/kg	11.13.2020 13:13	
Toluene	<0.00200	0.100	0.0848	85	0.0908	91	70-130	7	35	mg/kg	11.13.2020 13:13	
Ethylbenzene	<0.00200	0.100	0.0872	87	0.0917	92	71-129	5	35	mg/kg	11.13.2020 13:13	
m,p-Xylenes	<0.00400	0.200	0.179	90	0.187	94	70-135	4	35	mg/kg	11.13.2020 13:13	
o-Xylene	<0.00200	0.100	0.0890	89	0.0927	93	71-133	4	35	mg/kg	11.13.2020 13:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		100		101		70-130	%	11.13.2020 13:13
4-Bromofluorobenzene	114		101		109		70-130	%	11.13.2020 13:13

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142322

Matrix: Solid

Prep Method: SW5035A

Date Prep: 11.13.2020

MB Sample Id: 7715196-1-BLK

LCS Sample Id: 7715196-1-BKS

LCSD Sample Id: 7715196-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.104	104	70-130	3	35	mg/kg	11.13.2020 19:53	
Toluene	<0.00200	0.100	0.0977	98	0.100	100	70-130	2	35	mg/kg	11.13.2020 19:53	
Ethylbenzene	<0.00200	0.100	0.0909	91	0.0932	93	71-129	2	35	mg/kg	11.13.2020 19:53	
m,p-Xylenes	<0.00400	0.200	0.183	92	0.188	94	70-135	3	35	mg/kg	11.13.2020 19:53	
o-Xylene	<0.00200	0.100	0.0908	91	0.0933	93	71-133	3	35	mg/kg	11.13.2020 19:53	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		100		99		70-130	%	11.13.2020 19:53
4-Bromofluorobenzene	92		84		86		70-130	%	11.13.2020 19:53

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142232

Matrix: Soil

Prep Method: SW5035A

Date Prep: 11.13.2020

Parent Sample Id: 677769-001

MS Sample Id: 677769-001 S

MSD Sample Id: 677769-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0928	93	0.0981	98	70-130	6	35	mg/kg	11.13.2020 08:54	
Toluene	<0.00201	0.100	0.0820	82	0.0883	88	70-130	7	35	mg/kg	11.13.2020 08:54	
Ethylbenzene	<0.00201	0.100	0.0770	77	0.0840	84	71-129	9	35	mg/kg	11.13.2020 08:54	
m,p-Xylenes	<0.00402	0.201	0.154	77	0.169	85	70-135	9	35	mg/kg	11.13.2020 08:54	
o-Xylene	<0.00201	0.100	0.0766	77	0.0839	84	71-133	9	35	mg/kg	11.13.2020 08:54	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		99		70-130	%	11.13.2020 08:54
4-Bromofluorobenzene	85		84		70-130	%	11.13.2020 08:54

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

[D] = 100*(C-A) / B
 RPD = 200* |(C-E) / (C+E)|
 [D] = 100 * (C) / [B]
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
 OWL 100520 D

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142319
 Parent Sample Id: 677778-001

Matrix: Soil
 MS Sample Id: 677778-001 S

Prep Method: SW5035A
 Date Prep: 11.13.2020
 MSD Sample Id: 677778-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.106	106	0.0873	87	70-130	19	35	mg/kg	11.13.2020 13:58	
Toluene	<0.00200	0.100	0.0992	99	0.0768	77	70-130	25	35	mg/kg	11.13.2020 13:58	
Ethylbenzene	<0.00200	0.100	0.0997	100	0.0724	72	71-129	32	35	mg/kg	11.13.2020 13:58	
m,p-Xylenes	<0.00401	0.200	0.202	101	0.147	73	70-135	32	35	mg/kg	11.13.2020 13:58	
o-Xylene	<0.00200	0.100	0.0997	100	0.0732	73	71-133	31	35	mg/kg	11.13.2020 13:58	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		105		70-130	%	11.13.2020 13:58
4-Bromofluorobenzene	106		113		70-130	%	11.13.2020 13:58

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142322
 Parent Sample Id: 677780-055

Matrix: Soil
 MS Sample Id: 677780-055 S

Prep Method: SW5035A
 Date Prep: 11.13.2020
 MSD Sample Id: 677780-055 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.108	107	0.118	118	70-130	9	35	mg/kg	11.13.2020 20:38	
Toluene	<0.00201	0.101	0.100	99	0.111	111	70-130	10	35	mg/kg	11.13.2020 20:38	
Ethylbenzene	<0.00201	0.101	0.0897	89	0.0996	100	71-129	10	35	mg/kg	11.13.2020 20:38	
m,p-Xylenes	<0.00402	0.201	0.180	90	0.201	100	70-135	11	35	mg/kg	11.13.2020 20:38	
o-Xylene	<0.00201	0.101	0.0894	89	0.0991	99	71-133	10	35	mg/kg	11.13.2020 20:38	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		70-130	%	11.13.2020 20:38
4-Bromofluorobenzene	88		87		70-130	%	11.13.2020 20:38

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Setting the Standard since 1990
Stafford, Texas (281-240-4200)
Dallas, Texas (214-902-0300)
Service Center - San Antonio, Texas (210-509-3334)

CHAIN OF CUSTODY

Page 1 of 6

Odessa, Texas (432-563-1800)
Nacross, Georgia (770-449-8800)
Lakeland, Florida (863-646-8526)
Tampa, Florida (813-620-2000)

677780

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes												
Company Name / Branch: K.J.E. Environmental & Civil Engineering		Project Name/Number: <u>OWL 100520D</u>		Xenoco Quote #		Xenoco Job #												
Company Address: 500 Moseley Road, Cross Roads, Texas 76227		Project Location: <u>Lee County</u>		Xenoco Job #		Xenoco Job #												
Email: <u>treddick@kjc-us.com</u> Phone No: (940)387-0805		Invoice To: <u>Lee County</u>		Xenoco Job #		Xenoco Job #												
Project Contact: <u>Travis Reddick</u>		Offield Water Logistics		Xenoco Job #		Xenoco Job #												
Sampler's Name: <u>Travis Reddick</u>		PO Number:		Xenoco Job #		Xenoco Job #												
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	FCI	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX 8260 (5035)	TPH	CHLORIDES	Notes:
1	SS-37	0-2'	11/1/20	12:50	CS	1									X	X	X	
2	SS-38	0-2'		13:00											X	X	X	
3	SS-38	2-4'		13:02											X	X	X	
4	SS-38	4-6'		13:04											X	X	X	
5	SS-39	0-2'		13:16											X	X	X	
6	SS-39	2-4'		13:18											X	X	X	
7	SS-39	4-5'		13:20											X	X	X	
8	SS-40	0-2'		13:24											X	X	X	
9	SS-40	2-4'		13:26											X	X	X	
10	SS-41	0-2'		13:30											X	X	X	

- S = Soil/Sed/Solid
- GW = Ground Water
- DW = Drinking Water
- P = Product
- SW = Surface Water
- SL = Sludge
- OW = Ocean/Sea Water
- O = Oil
- WW = Waste Water
- A = Air

Notes:
Analyze 0-2' samples. Hold all deeper pending 0-2' results.
3 Day TAT



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas, Texas (214-902-0300)

CHAIN OF CUSTODY

Page 2 of 2

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)
 Tampa, Florida (813-620-2000)

677780

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes	
Company Name / Branch: KJE Environmental & Civil Engineering		Project Name/Number: OWL 100520D OWL 100520D		Xenco Quote #		Xenco Job #	
Company Address: 500 Mosely Road, Cross Roads, Texas 76227		Project Location: <u>Lea County</u>		Xenon			
Email: tr@kje.com <u>tr@kje.com</u> Phone No: (940)387-0805		Invoice To: <u>Lea County</u>		Xenon			
Project Contact: <u>Travis Redlick</u>		Oilfield Water Logistics		Xenon			
Samplers Name		PO Number:		Xenon			
No.	Field ID / Point of Collection	Collection	Number of preserved bottles	Notes		Field Comments	
1	SS-41 2-4'	Sample Depth: 2-4' Date: 11/17/20 Time: 13:32 Matrix: CS # of bottles: 1	FCI: 1	↑		S = Soil/Sed/Solid GW = Ground Water DW = Drinking Water P = Product SW = Surface water SL = Sludge OW = Ocean/Sea Water W = Wipe O = Oil WW = Waste Water A = Air	
2	SS-41 4-6'	Sample Depth: 4-6' Date: 11/17/20 Time: 13:34 Matrix: CS # of bottles: 1	FCI: 1	↑			
3	SS-42 0-2'	Sample Depth: 0-2' Date: 11/17/20 Time: 13:58 Matrix: CS # of bottles: 1	FCI: 1	↑			
4	SS-42 2-4'	Sample Depth: 2-4' Date: 11/17/20 Time: 14:00 Matrix: CS # of bottles: 1	FCI: 1	↑			
5	SS-42 4-5'	Sample Depth: 4-5' Date: 11/17/20 Time: 14:02 Matrix: CS # of bottles: 1	FCI: 1	↑			
6	SS-43 0-2'	Sample Depth: 0-2' Date: 11/17/20 Time: 14:04 Matrix: CS # of bottles: 1	FCI: 1	↑			
7	SS-43 2-4'	Sample Depth: 2-4' Date: 11/17/20 Time: 14:06 Matrix: CS # of bottles: 1	FCI: 1	↑			
8	SS-43 4-5'	Sample Depth: 4-5' Date: 11/17/20 Time: 14:08 Matrix: CS # of bottles: 1	FCI: 1	↑			
9	SS-44 0-2'	Sample Depth: 0-2' Date: 11/17/20 Time: 14:10 Matrix: CS # of bottles: 1	FCI: 1	↑			
10	SS-44 2-4'	Sample Depth: 2-4' Date: 11/17/20 Time: 14:12 Matrix: CS # of bottles: 1	FCI: 1	↑			
Turnaround Time (Business days)		Data Deliverable Information		Notes:			
<input type="checkbox"/> Same Day TAT		<input type="checkbox"/> Level II Std QC		<input type="checkbox"/> Level IV (Full Data Pig/raw data)			
<input type="checkbox"/> Next Day EMERGENCY		<input type="checkbox"/> 7 Day TAT		<input type="checkbox"/> Level III Std QC+ Forms		<input type="checkbox"/> TRRP Level IV	
<input type="checkbox"/> 2 Day EMERGENCY		<input type="checkbox"/> Contract TAT		<input type="checkbox"/> Level 3 (CLP Forms)		<input type="checkbox"/> UST / RG 411	
<input type="checkbox"/> 3 Day EMERGENCY				<input type="checkbox"/> TRRP Checklist			
TAT Starts Day received by Lab, if received by 5:00 pm							
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY							
Relinquished by Sample # <u>1</u> <u>S. Zell</u>		Date Time: <u>11/17/20 14:12</u>		Received By: <u>1</u> <u>Clayton</u>		Date Time: <u>11-17-20 21:05</u>	
Relinquished by: <u>3</u>		Date Time:		Received By: <u>3</u>		Date Time:	
Relinquished by:		Date Time:		Received By: <u>4</u>		Date Time:	
Relinquished by:		Date Time:		Received By: <u>5</u>		Date Time:	
Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously negotiated under a fully executed client contract.		Preserved where applicable		On Ice		Cooler Temp. <u>4.8/4.6</u> Thermo, Corr. Factor	



Setting the Standard since 1990
 Starford, Texas (281-240-4200)
 Dallas, Texas (214-902-0300)

CHAIN OF CUSTODY

Page 3 of 6

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)
 Tampa, Florida (813-620-2000)

677780

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes													
Company Name / Branch: KJE, Environmental & Civil Engineering		Project Name/Number: OWL 100520D OWL 100520D		Xenco Quote #		Xenco Job #													
Company Address: 500 Mosely Road, Cross Roads, Texas 76227		Project Location: Lea County		Xenco Job #		Xenco Job #													
Email: fredrick@kje-us.com fredrick@kje-us.com Phone No: (940)387-0805		Invoice To: Oilfield Water Logistics		Xenco Job #		Xenco Job #													
Project Contact: fredrick@kje-us.com Travis Reddick		PO Number:		Xenco Job #		Xenco Job #													
Sampler's Name		Field ID / Point of Collection		Xenco Job #		Xenco Job #													
No.	Sample Depth	Collection Date	Time	Matrix	# of bottles	HCI	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX 8260 (5035)	TPH	CHLORIDES	Field Comments		
1	SS-44 4-5'	11/11/20	14:14	CS	1									X	X	X			
2	SS-45 0-2'		14:18											X	X	X			
3	SS-45 2-4'		14:20											X	X	X			
4	SS-46 0-2'		14:28											X	X	X			
5	SS-46 2-4'		14:30											X	X	X			
6	SS-46 4-6'		14:32											X	X	X			
7	SS-46 6-8'		14:34											X	X	X			
8	SS-47 0-2'		14:38											X	X	X			
9	SS-47 2-4'		14:40											X	X	X			
10	SS-47 4-5'		14:42											X	X	X			
Turnaround Time (Business days) _____ Data Deliverable Information _____ Notes: Analyze 0-2' samples. Hold all deeper samples pending 0-2' results 3 Day TAT																			
<input type="checkbox"/> Same Day TAT <input type="checkbox"/> Next Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input checked="" type="checkbox"/> 3 Day EMERGENCY		<input type="checkbox"/> 5 Day TAT <input type="checkbox"/> 7 Day TAT <input type="checkbox"/> Contract TAT <input type="checkbox"/> TRRP Checklist		<input type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC+ Forms <input type="checkbox"/> Level 3 (CLP Forms)		<input type="checkbox"/> Level IV (Full Data Pkg /raw data) <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> UST / RG 411		TAT Starts Day received by Lab. if received by 5:00 pm SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY		Date Time: 11/12/2020 16:15 Received By: [Signature]		Date Time: 11-12-2020 16:15 Relinquished By: [Signature]		Date Time: _____ Received By: _____		Date Time: _____ Relinquished By: _____		Date Time: _____ Received By: _____	
Relinquished by:		Date Time:		Relinquished By:		Date Time:		Relinquished By:		Date Time:		Relinquished By:		Date Time:		Relinquished By:			
Relinquished by:		Date Time:		Relinquished By:		Date Time:		Relinquished By:		Date Time:		Relinquished By:		Date Time:		Relinquished By:			
Relinquished by:		Date Time:		Relinquished By:		Date Time:		Relinquished By:		Date Time:		Relinquished By:		Date Time:		Relinquished By:			
Relinquished by:		Date Time:		Relinquished By:		Date Time:		Relinquished By:		Date Time:		Relinquished By:		Date Time:		Relinquished By:			



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas Texas (214-902-0300)

CHAIN OF CUSTODY

Page 4 of 6

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

Odessa, Texas (432-563-1800)
 Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)
 Tampa, Florida (813-620-2000)

677780

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes													
Company Name / Branch: KJE Environmental & Civil Engineering		Project Name/Number: 02113028469		Xenco Quote #		Xenco Job #													
Company Address: 500 Mosely Road, Cross Roads, Texas 76227		Project Location: Le9 County		Xenoco															
Email: traddick@kje-us.com Phone No: (940)387-0805		Invoice To: Offfield Water Logistics		Xenoco															
Project Contact: Travis Reddick		PO Number:		Xenoco															
Samplers Name		Collection		Xenoco															
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCI	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX 8260 (5035)	TPH	CHLORIDES	Notes	
1	SS-48	0-2'	11/11/20	12:46	CS	1								X	X	X			
2	SS-48	2-4'	11/11/20	14:48											X	X	X		
3	SS-48	4-6'	11/11/20	14:50											X	X	X		
4	SS-49	0-2'	11/11/20	14:54											X	X	X		
5	SS-49	2-4'	11/11/20	14:56											X	X	X		
6	SS-49	4-5'	11/11/20	14:58											X	X	X		
7	SS-50	0-2'	11/11/20	15:00											X	X	X		
8	SS-50	2-4'	11/11/20	15:02											X	X	X		
9	SS-50	4-6'	11/11/20	15:04											X	X	X		
10	SS-50	6-7'	11/11/20	15:06											X	X	X		
Turnaround Time (Business days)		Data Deliverable Information		Notes:														Analyze 0-2' samples. Hold all deeper samples pending 0-2' results. 3 Day TAT	
<input type="checkbox"/> Same Day TAT		<input type="checkbox"/> 5 Day TAT		<input type="checkbox"/> Level II Std QC		<input type="checkbox"/> Level IV (Full Data Pkg /raw data)													
<input type="checkbox"/> Next Day EMERGENCY		<input type="checkbox"/> 7 Day TAT		<input type="checkbox"/> Level III Std QC+ Forms		<input type="checkbox"/> TRRP Level IV													
<input type="checkbox"/> 2 Day EMERGENCY		<input type="checkbox"/> Contract TAT		<input type="checkbox"/> Level 3 (CLP Forms)		<input type="checkbox"/> UST / RG 411													
<input checked="" type="checkbox"/> 3 Day EMERGENCY				<input type="checkbox"/> TRRP Checklist															
TAT Starts Day received by Lab, if received by 5:00 pm		FED-EX / UPS, Tracking #																	
Relinquished by: <i>S. [Signature]</i>		Date Time: 11-15-20		Received By: <i>[Signature]</i>		Date Time: 11-17-20		Relinquished By: <i>[Signature]</i>		Date Time: 11-17-20		Custody Seal #		Preserved where applicable		On Ice		Cooler Temp. Thermo. Corr. Factor	
Relinquished by:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Custody Seal #		Preserved where applicable		On Ice		Cooler Temp. Thermo. Corr. Factor	
Relinquished by:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Custody Seal #		Preserved where applicable		On Ice		Cooler Temp. Thermo. Corr. Factor	



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas, Texas (214-902-0300)
 Service Center - San Antonio, Texas (210-509-3334)

CHAIN OF CUSTODY

Page 6 of 6

Odessa, Texas (432-563-1800)
 Norcross, Georgia (770-449-8800)
 Lakeland, Florida (863-646-8526)
 Tampa, Florida (813-620-2000)

www.xenco.com

Client / Reporting Information		Project Information		Analytical Information										Matrix Codes				
Company Name / Branch: KJE, Environmental & Civil Engineering		Project Name/Number: ENVIRONMENTAL OUL 100520D												S = Soil/Sed/Solid GW = Ground Water DW = Drinking Water P = Product SW = Surface water SL = Sludge OW = Ocean/Sea Water W = Wipe O = Oil MW = Waste Water A = Air				
Company Address: 500 Mosely Road, Cross Roads, Texas 76227		Project Location: Lea County																
Email: travis@xenco.com trveddick@kje-us.com		Invoice To: Offfield Water Logistics																
Phone No: (940)387-0805		PO Number:																
Project Contact: Travis Reddick																		
Lab/Service:																		
Samplers Name																		
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX 8260 (5035)	TPH	CHLORIDES	Notes:
1	SS-53 4-6'	4-6'	11/11/20	15:54	CS	1								X	X	X		
2	SS-53 6-8'	6-8'	11/11/20	15:56										X	X	X		
3	SS-54 6-2'	0-2'	11/11/20	16:00										X	X	X		
4	SS-54 2-4'	2-4'	11/11/20	16:02										X	X	X		
5	SS-55 0-2'	0-2'	11/11/20	16:10										X	X	X		
6	SS-55 2-4'	2-4'	11/11/20	16:12										X	X	X		
7																		
8																		
9																		
10																		

6777180

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: KJ Environmental & Civil Engineering

Date/ Time Received: 11.12.2020 04.15.00 PM

Work Order #: 677780

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : T_NM_007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	6.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6*Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	Yes
	Had four extra samples, Travis Reddick gave permission to add it to end of this COC.
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
	Samples received in bulk containers.
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 11.13.2020

Checklist reviewed by: Jessica Kramer Date: 11.13.2020



Certificate of Analysis Summary 677780

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.25.2020 15:31
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677780-001	677780-002	677780-005	677780-008	677780-009	677780-010
	<i>Field Id:</i>	SS-37 0-2'	SS-38 0-2'	SS-39 0-2'	SS-40 0-2'	SS-40 2-4'	SS-41 0-2'
	<i>Depth:</i>	0-2 ft	0-2 ft	0-2 ft	0-2 ft	2-4 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.11.2020 12:50	11.11.2020 13:00	11.11.2020 13:16	11.11.2020 13:24	11.11.2020 13:26	11.11.2020 13:30
BTEX by EPA 8021B	<i>Extracted:</i>	11.13.2020 09:59	11.13.2020 09:59	11.13.2020 09:59	11.13.2020 09:59		11.13.2020 09:59
	<i>Analyzed:</i>	11.13.2020 21:53	11.13.2020 22:15	11.13.2020 22:38	11.13.2020 23:00		11.13.2020 23:22
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		mg/kg RL
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199		<0.00202 0.00202
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199		<0.00202 0.00202
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199		<0.00202 0.00202
m,p-Xylenes		<0.00398 0.00398	<0.00400 0.00400	<0.00398 0.00398	<0.00398 0.00398		<0.00403 0.00403
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199		<0.00202 0.00202
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199		<0.00202 0.00202
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199		<0.00202 0.00202
Chloride by EPA 300	<i>Extracted:</i>	11.13.2020 14:38	11.13.2020 14:38	11.13.2020 14:38	11.13.2020 14:38	11.17.2020 15:52	11.13.2020 14:38
	<i>Analyzed:</i>	11.13.2020 16:29	11.13.2020 16:35	11.13.2020 16:40	11.13.2020 16:46	11.18.2020 16:51	11.13.2020 16:51
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		27.8 9.92	13.8 10.0	40.8 10.0	6740 99.0	63.2 10.1	15.2 9.98
TPH by SW8015 Mod	<i>Extracted:</i>	11.13.2020 11:48	11.13.2020 11:48	11.13.2020 11:48	11.13.2020 11:48		11.13.2020 11:48
	<i>Analyzed:</i>	11.13.2020 20:16	11.13.2020 20:36	11.13.2020 20:56	11.13.2020 21:17		11.13.2020 21:37
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.9 49.9	<49.9 49.9	<50.2 50.2		<50.1 50.1
Diesel Range Organics (DRO)		<49.9 49.9	<49.9 49.9	<49.9 49.9	<50.2 50.2		<50.1 50.1
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.9 49.9	<49.9 49.9	<50.2 50.2		<50.1 50.1
Total TPH		<49.9 49.9	<49.9 49.9	<49.9 49.9	<50.2 50.2		<50.1 50.1

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677780

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.25.2020 15:31
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677780-013	677780-016	677780-017	677780-018	677780-019	677780-022
	<i>Field Id:</i>	SS-42 0-2'	SS-43 0-2'	SS-43 2-4'	SS-43 4-5'	SS-44 0-2'	SS-45 0-2'
	<i>Depth:</i>	0-2 ft	0-2 ft	2-4 ft	4-5 ft	0-2 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.11.2020 13:58	11.11.2020 14:04	11.11.2020 14:06	11.11.2020 14:08	11.11.2020 14:10	11.11.2020 14:18
BTEX by EPA 8021B	<i>Extracted:</i>	11.13.2020 10:00	11.13.2020 10:00			11.13.2020 10:00	11.13.2020 10:00
	<i>Analyzed:</i>	11.13.2020 12:49	11.13.2020 13:11			11.13.2020 13:33	11.13.2020 14:51
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL			mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00200 0.00200			<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00198 0.00198	<0.00200 0.00200			<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00198 0.00198	<0.00200 0.00200			<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00397 0.00397	<0.00401 0.00401			<0.00401 0.00401	<0.00399 0.00399
o-Xylene		<0.00198 0.00198	<0.00200 0.00200			<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00198 0.00198	<0.00200 0.00200			<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00198 0.00198	<0.00200 0.00200			<0.00200 0.00200	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	11.13.2020 14:42	11.13.2020 14:42	11.17.2020 15:52	11.24.2020 17:00	11.13.2020 14:42	11.13.2020 14:42
	<i>Analyzed:</i>	11.13.2020 17:24	11.13.2020 17:41	11.18.2020 16:57	11.25.2020 03:21	11.13.2020 17:46	11.13.2020 17:52
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		19.7 9.92	1410 50.5	229 10.0	24.6 10.0	471 10.1	7920 99.4
TPH by SW8015 Mod	<i>Extracted:</i>	11.13.2020 12:00	11.13.2020 12:00			11.13.2020 12:00	11.13.2020 12:00
	<i>Analyzed:</i>	11.13.2020 14:00	11.13.2020 15:14			11.13.2020 15:34	11.13.2020 15:54
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL			mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.3 50.3	<49.8 49.8			<49.9 49.9	<50.3 50.3
Diesel Range Organics (DRO)		<50.3 50.3	<49.8 49.8			<49.9 49.9	<50.3 50.3
Motor Oil Range Hydrocarbons (MRO)		<50.3 50.3	<49.8 49.8			<49.9 49.9	<50.3 50.3
Total TPH		<50.3 50.3	<49.8 49.8			<49.9 49.9	<50.3 50.3

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677780

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.25.2020 15:31
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677780-023	677780-024	677780-028	677780-029	677780-030	677780-031
	<i>Field Id:</i>	SS-45 2-4'	SS-46 0-2'	SS-47 0-2'	SS-47 2-4'	SS-47 4-5'	SS-48 0-2'
	<i>Depth:</i>	2-4 ft	0-2 ft	0-2 ft	2-4 ft	4-5 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.11.2020 14:20	11.11.2020 14:28	11.11.2020 14:38	11.11.2020 14:40	11.11.2020 14:42	11.11.2020 14:46
BTEX by EPA 8021B	<i>Extracted:</i>		11.13.2020 10:00	11.13.2020 10:00			11.13.2020 10:00
	<i>Analyzed:</i>		11.13.2020 15:14	11.13.2020 15:36			11.13.2020 15:59
	<i>Units/RL:</i>		mg/kg RL	mg/kg RL			mg/kg RL
Benzene			<0.00198 0.00198	<0.00200 0.00200			<0.00200 0.00200
Toluene			<0.00198 0.00198	<0.00200 0.00200			<0.00200 0.00200
Ethylbenzene			<0.00198 0.00198	<0.00200 0.00200			<0.00200 0.00200
m,p-Xylenes			<0.00397 0.00397	<0.00401 0.00401			<0.00399 0.00399
o-Xylene			<0.00198 0.00198	<0.00200 0.00200			<0.00200 0.00200
Total Xylenes			<0.00198 0.00198	<0.00200 0.00200			<0.00200 0.00200
Total BTEX			<0.00198 0.00198	<0.00200 0.00200			<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	11.17.2020 15:52	11.13.2020 14:42	11.13.2020 14:42	11.17.2020 15:52	11.24.2020 15:54	11.13.2020 14:42
	<i>Analyzed:</i>	11.18.2020 17:15	11.13.2020 17:57	11.13.2020 18:03	11.18.2020 17:33	11.24.2020 21:24	11.13.2020 18:19
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		28.4 10.1	12.9 10.0	2010 101	468 9.98	22.8 10.0	21.4 9.90
TPH by SW8015 Mod	<i>Extracted:</i>		11.13.2020 12:00	11.13.2020 12:00			11.13.2020 12:00
	<i>Analyzed:</i>		11.13.2020 16:14	11.13.2020 16:34			11.13.2020 16:54
	<i>Units/RL:</i>		mg/kg RL	mg/kg RL			mg/kg RL
Gasoline Range Hydrocarbons (GRO)			<50.1 50.1	<50.3 50.3			<50.2 50.2
Diesel Range Organics (DRO)			<50.1 50.1	<50.3 50.3			<50.2 50.2
Motor Oil Range Hydrocarbons (MRO)			<50.1 50.1	<50.3 50.3			<50.2 50.2
Total TPH			<50.1 50.1	<50.3 50.3			<50.2 50.2

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677780

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.25.2020 15:31
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677780-034	677780-035	677780-036	677780-037	677780-038	677780-041
	<i>Field Id:</i>	SS-49 0-2'	SS-49 2-4'	SS-49 4-5'	SS-50 0-2'	SS-50 2-4'	SS-51 0-2'
	<i>Depth:</i>	0-2 ft	2-4 ft	4-5 ft	0-2 ft	2-4 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.11.2020 14:54	11.11.2020 14:56	11.11.2020 14:58	11.11.2020 15:00	11.11.2020 15:02	11.11.2020 15:20
BTEX by EPA 8021B	<i>Extracted:</i>	11.13.2020 10:00			11.13.2020 10:00		11.13.2020 10:00
	<i>Analyzed:</i>	11.13.2020 16:21			11.13.2020 16:43		11.13.2020 17:06
	<i>Units/RL:</i>	mg/kg RL			mg/kg RL		mg/kg RL
Benzene		<0.00200 0.00200			<0.00200 0.00200		<0.00200 0.00200
Toluene		<0.00200 0.00200			<0.00200 0.00200		<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200			<0.00200 0.00200		<0.00200 0.00200
m,p-Xylenes		<0.00399 0.00399			<0.00401 0.00401		<0.00401 0.00401
o-Xylene		<0.00200 0.00200			<0.00200 0.00200		<0.00200 0.00200
Total Xylenes		<0.00200 0.00200			<0.00200 0.00200		<0.00200 0.00200
Total BTEX		<0.00200 0.00200			<0.00200 0.00200		<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	11.13.2020 14:42	11.17.2020 15:52	11.24.2020 15:54	11.13.2020 14:42		11.13.2020 14:42
	<i>Analyzed:</i>	11.13.2020 18:25	11.18.2020 17:39	11.24.2020 21:30	11.13.2020 18:30		11.13.2020 18:36
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		mg/kg RL
Chloride		862 50.2	29.0 9.98	23.3 10.1	41.0 9.96		11900 199
TPH by SW8015 Mod	<i>Extracted:</i>	11.13.2020 12:00			11.13.2020 12:00	11.17.2020 16:00	11.13.2020 12:00
	<i>Analyzed:</i>	11.13.2020 17:15			11.13.2020 17:35	11.17.2020 17:58	11.13.2020 17:56
	<i>Units/RL:</i>	mg/kg RL			mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2			<50.2 50.2	<50.1 50.1	<50.1 50.1
Diesel Range Organics (DRO)		<50.2 50.2			869 50.2	<50.1 50.1	<50.1 50.1
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2			91.9 50.2	<50.1 50.1	<50.1 50.1
Total TPH		<50.2 50.2			961 50.2	<50.1 50.1	<50.1 50.1

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677780

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.25.2020 15:31
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677780-042	677780-043	677780-044	677780-045	677780-049	677780-053
	<i>Field Id:</i>	SS-51 2-4'	SS-51 4-6'	SS-51 6-8'	SS-52 0-2'	SS-53 0-2'	SS-54 0-2'
	<i>Depth:</i>	2-4 ft	4-6 ft	6-8 ft	0-2 ft	0-2 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.11.2020 15:22	11.11.2020 15:24	11.11.2020 15:26	11.11.2020 15:40	11.11.2020 15:50	11.11.2020 16:00
BTEX by EPA 8021B	<i>Extracted:</i>				11.13.2020 10:00	11.13.2020 10:00	11.13.2020 10:00
	<i>Analyzed:</i>				11.13.2020 17:28	11.13.2020 17:51	11.13.2020 18:13
	<i>Units/RL:</i>				mg/kg RL	mg/kg RL	mg/kg RL
Benzene					<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202
Toluene					<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202
Ethylbenzene					<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202
m,p-Xylenes					<0.00401 0.00401	<0.00402 0.00402	<0.00404 0.00404
o-Xylene					<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202
Total Xylenes					<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202
Total BTEX					<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202
Chloride by EPA 300	<i>Extracted:</i>	11.17.2020 15:52	11.24.2020 15:54	11.24.2020 15:54	11.13.2020 14:42	11.13.2020 14:42	11.13.2020 14:42
	<i>Analyzed:</i>	11.18.2020 17:45	11.24.2020 21:35	11.24.2020 21:40	11.13.2020 18:41	11.13.2020 18:58	11.13.2020 19:03
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		2190 50.1	790 10.0	89.7 10.0	134 10.0	13.4 10.0	797 10.0
TPH by SW8015 Mod	<i>Extracted:</i>				11.13.2020 12:00	11.13.2020 12:00	11.13.2020 12:00
	<i>Analyzed:</i>				11.13.2020 18:35	11.13.2020 18:55	11.13.2020 19:16
	<i>Units/RL:</i>				mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)					<50.3 50.3	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)					<50.3 50.3	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)					<50.3 50.3	<50.0 50.0	<49.9 49.9
Total TPH					<50.3 50.3	<50.0 50.0	<49.9 49.9

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 677780

KJ Environmental & Civil Engineering, Aubrey, TX

Project Name: OWL 100520 D

Project Id:
Contact: Travis Reddick
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.12.2020 16:15
Report Date: 11.25.2020 15:31
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677780-054	677780-055	677780-058	677780-059		
	<i>Field Id:</i>	SS-54 2-4'	SS-55 0-2'	SS-36 0-2'	SS-36 2-4'		
	<i>Depth:</i>	2-4 ft	0-2 ft	0-2 ft	2-4 ft		
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	11.11.2020 16:02	11.11.2020 16:10	11.11.2020 00:00	11.11.2020 00:00		
BTEX by EPA 8021B	<i>Extracted:</i>		11.13.2020 17:37	11.13.2020 17:37			
	<i>Analyzed:</i>		11.13.2020 21:56	11.13.2020 22:19			
	<i>Units/RL:</i>		mg/kg RL	mg/kg RL			
Benzene			<0.00200 0.00200	<0.00199 0.00199			
Toluene			<0.00200 0.00200	<0.00199 0.00199			
Ethylbenzene			<0.00200 0.00200	<0.00199 0.00199			
m,p-Xylenes			<0.00401 0.00401	<0.00398 0.00398			
o-Xylene			<0.00200 0.00200	<0.00199 0.00199			
Total Xylenes			<0.00200 0.00200	<0.00199 0.00199			
Total BTEX			<0.00200 0.00200	<0.00199 0.00199			
Chloride by EPA 300	<i>Extracted:</i>	11.17.2020 15:52	11.13.2020 14:42	11.13.2020 14:42	11.17.2020 15:52		
	<i>Analyzed:</i>	11.18.2020 17:51	11.13.2020 19:20	11.13.2020 19:25	11.18.2020 17:57		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		10000 198	174 9.96	2200 100	632 9.98		
TPH by SW8015 Mod	<i>Extracted:</i>		11.13.2020 12:00	11.13.2020 12:00			
	<i>Analyzed:</i>		11.13.2020 19:36	11.13.2020 19:56			
	<i>Units/RL:</i>		mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)			<50.1 50.1	<50.2 50.2			
Diesel Range Organics (DRO)			<50.1 50.1	<50.2 50.2			
Motor Oil Range Hydrocarbons (MRO)			<50.1 50.1	<50.2 50.2			
Total TPH			<50.1 50.1	<50.2 50.2			

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Analytical Report 677780

for

KJ Environmental & Civil Engineering

Project Manager: Travis Reddick

OWL 100520 D

11.25.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



11.25.2020

Project Manager: **Travis Reddick**
KJ Environmental & Civil Engineering
500 Moseley Rd
Aubrey, TX 76227

Reference: Eurofins Xenco, LLC Report No(s): **677780**
OWL 100520 D
Project Address: Lea County, New Mexico

Travis Reddick:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 677780. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 677780 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 677780

KJ Environmental & Civil Engineering, Aubrey, TX

OWL 100520 D

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-37 0-2'	S	11.11.2020 12:50	0 - 2 ft	677780-001
SS-38 0-2'	S	11.11.2020 13:00	0 - 2 ft	677780-002
SS-39 0-2'	S	11.11.2020 13:16	0 - 2 ft	677780-005
SS-40 0-2'	S	11.11.2020 13:24	0 - 2 ft	677780-008
SS-40 2-4'	S	11.11.2020 13:26	2 - 4 ft	677780-009
SS-41 0-2'	S	11.11.2020 13:30	0 - 2 ft	677780-010
SS-42 0-2'	S	11.11.2020 13:58	0 - 2 ft	677780-013
SS-43 0-2'	S	11.11.2020 14:04	0 - 2 ft	677780-016
SS-43 2-4'	S	11.11.2020 14:06	2 - 4 ft	677780-017
SS-43 4-5'	S	11.11.2020 14:08	4 - 5 ft	677780-018
SS-44 0-2'	S	11.11.2020 14:10	0 - 2 ft	677780-019
SS-45 0-2'	S	11.11.2020 14:18	0 - 2 ft	677780-022
SS-45 2-4'	S	11.11.2020 14:20	2 - 4 ft	677780-023
SS-46 0-2'	S	11.11.2020 14:28	0 - 2 ft	677780-024
SS-47 0-2'	S	11.11.2020 14:38	0 - 2 ft	677780-028
SS-47 2-4'	S	11.11.2020 14:40	2 - 4 ft	677780-029
SS-47 4-5'	S	11.11.2020 14:42	4 - 5 ft	677780-030
SS-48 0-2'	S	11.11.2020 14:46	0 - 2 ft	677780-031
SS-49 0-2'	S	11.11.2020 14:54	0 - 2 ft	677780-034
SS-49 2-4'	S	11.11.2020 14:56	2 - 4 ft	677780-035
SS-49 4-5'	S	11.11.2020 14:58	4 - 5 ft	677780-036
SS-50 0-2'	S	11.11.2020 15:00	0 - 2 ft	677780-037
SS-50 2-4'	S	11.11.2020 15:02	2 - 4 ft	677780-038
SS-51 0-2'	S	11.11.2020 15:20	0 - 2 ft	677780-041
SS-51 2-4'	S	11.11.2020 15:22	2 - 4 ft	677780-042
SS-51 4-6'	S	11.11.2020 15:24	4 - 6 ft	677780-043
SS-51 6-8'	S	11.11.2020 15:26	6 - 8 ft	677780-044
SS-52 0-2'	S	11.11.2020 15:40	0 - 2 ft	677780-045
SS-53 0-2'	S	11.11.2020 15:50	0 - 2 ft	677780-049
SS-54 0-2'	S	11.11.2020 16:00	0 - 2 ft	677780-053
SS-54 2-4'	S	11.11.2020 16:02	2 - 4 ft	677780-054
SS-55 0-2'	S	11.11.2020 16:10	0 - 2 ft	677780-055
SS-36 0-2'	S	11.11.2020 00:00	0 - 2 ft	677780-058
SS-36 2-4'	S	11.11.2020 00:00	2 - 4 ft	677780-059
SS-38 2-4'	S	11.11.2020 13:02	2 - 4 ft	Not Analyzed
SS-38 4-6'	S	11.11.2020 13:04	4 - 6 ft	Not Analyzed
SS-39 2-4'	S	11.11.2020 13:18	2 - 4 ft	Not Analyzed
SS-39 4-5'	S	11.11.2020 13:20	4 - 5 ft	Not Analyzed
SS-41 2-4'	S	11.11.2020 13:32	2 - 4 ft	Not Analyzed
SS-41 4-6'	S	11.11.2020 13:34	4 - 6 ft	Not Analyzed
SS-42 2-4'	S	11.11.2020 14:00	2 - 4 ft	Not Analyzed
SS-42 4-5'	S	11.11.2020 14:02	4 - 5 ft	Not Analyzed
SS-44 2-4'	S	11.11.2020 14:12	2 - 4 ft	Not Analyzed



Sample Cross Reference 677780

KJ Environmental & Civil Engineering, Aubrey, TX

OWL 100520 D

SS-44 4-5'	S	11.11.2020 14:14	4 - 5 ft	Not Analyzed
SS-46 2-4'	S	11.11.2020 14:30	2 - 4 ft	Not Analyzed
SS-46 4-6'	S	11.11.2020 14:32	4 - 6 ft	Not Analyzed
SS-46 6-8'	S	11.11.2020 14:34	6 - 8 ft	Not Analyzed
SS-48 2-4'	S	11.11.2020 14:48	2 - 4 ft	Not Analyzed
SS-48 4-6'	S	11.11.2020 14:50	4 - 6 ft	Not Analyzed
SS-50 4-6'	S	11.11.2020 15:04	4 - 6 ft	Not Analyzed
SS-50 6-7'	S	11.11.2020 15:06	6 - 7 ft	Not Analyzed
SS-52 2-4'	S	11.11.2020 15:42	2 - 4 ft	Not Analyzed
SS-52 4-6'	S	11.11.2020 15:44	4 - 6 ft	Not Analyzed
SS-52 6-8'	S	11.11.2020 15:46	6 - 8 ft	Not Analyzed
SS-53 2-4'	S	11.11.2020 15:52	2 - 4 ft	Not Analyzed
SS-53 4-6'	S	11.11.2020 15:54	4 - 6 ft	Not Analyzed
SS-53 6-8'	S	11.11.2020 15:56	6 - 8 ft	Not Analyzed
SS-55 2-4'	S	11.11.2020 16:12	2 - 4 ft	Not Analyzed
SS-28 6-8'	S	11.11.2020 00:00	6 - 8 ft	Not Analyzed
SS-36 4-6'	S	11.11.2020 00:00	4 - 6 ft	Not Analyzed



CASE NARRATIVE

Client Name: KJ Environmental & Civil Engineering

Project Name: OWL 100520 D

Project ID:
Work Order Number(s): 677780

Report Date: 11.25.2020
Date Received: 11.12.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-37 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-001 Date Collected: 11.11.2020 12:50 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	27.8	9.92	mg/kg	11.13.2020 16:29		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 20:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 20:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 20:16	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 20:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	11.13.2020 20:16	
o-Terphenyl	84-15-1	98	%	70-135	11.13.2020 20:16	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-37 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-001 Date Collected: 11.11.2020 12:50 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 21:53	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 21:53	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 21:53	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 21:53	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 21:53	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 21:53	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 21:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.13.2020 21:53	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 21:53	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-38 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-002 Date Collected: 11.11.2020 13:00 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.8	10.0	mg/kg	11.13.2020 16:35		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 20:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 20:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 20:36	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 20:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	11.13.2020 20:36	
o-Terphenyl	84-15-1	112	%	70-135	11.13.2020 20:36	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-38 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-002 Date Collected: 11.11.2020 13:00 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 22:15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 22:15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 22:15	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	11.13.2020 22:15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 22:15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 22:15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 22:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.13.2020 22:15	
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.13.2020 22:15	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-39 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-005 Date Collected: 11.11.2020 13:16 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	40.8	10.0	mg/kg	11.13.2020 16:40		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 20:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 20:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 20:56	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 20:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	11.13.2020 20:56	
o-Terphenyl	84-15-1	116	%	70-135	11.13.2020 20:56	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-39 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-005 Date Collected: 11.11.2020 13:16 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 22:38	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 22:38	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 22:38	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 22:38	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 22:38	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 22:38	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 22:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.13.2020 22:38	
4-Bromofluorobenzene	460-00-4	114	%	70-130	11.13.2020 22:38	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-40 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-008 Date Collected: 11.11.2020 13:24 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6740	99.0	mg/kg	11.13.2020 16:46		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 21:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.13.2020 21:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.13.2020 21:17	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.13.2020 21:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-135	11.13.2020 21:17	
o-Terphenyl	84-15-1	104	%	70-135	11.13.2020 21:17	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-40 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-008 Date Collected: 11.11.2020 13:24 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 23:00	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 23:00	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 23:00	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 23:00	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 23:00	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 23:00	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 23:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.13.2020 23:00	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.13.2020 23:00	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-40 2-4'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677780-009	Date Collected: 11.11.2020 13:26	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 15:52	Basis: Wet Weight
Seq Number: 3142697		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	63.2	10.1	mg/kg	11.18.2020 16:51		1



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-41 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-010 Date Collected: 11.11.2020 13:30 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:38 % Moisture:
 Seq Number: 3142335 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.2	9.98	mg/kg	11.13.2020 16:51		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 11:48 % Moisture:
 Seq Number: 3142309 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.13.2020 21:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.13.2020 21:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.13.2020 21:37	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.13.2020 21:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	11.13.2020 21:37	
o-Terphenyl	84-15-1	112	%	70-135	11.13.2020 21:37	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-41 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-010 Date Collected: 11.11.2020 13:30 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 09:59 % Moisture:
 Seq Number: 3142319 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.13.2020 23:22	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.13.2020 23:22	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.13.2020 23:22	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.13.2020 23:22	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.13.2020 23:22	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	11.13.2020 23:22	U	1
Total BTEX		<0.00202	0.00202	mg/kg	11.13.2020 23:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.13.2020 23:22	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.13.2020 23:22	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-42 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-013 Date Collected: 11.11.2020 13:58 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.7	9.92	mg/kg	11.13.2020 17:24		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.13.2020 14:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.13.2020 14:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.13.2020 14:00	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.13.2020 14:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	11.13.2020 14:00	
o-Terphenyl	84-15-1	108	%	70-135	11.13.2020 14:00	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-42 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-013 Date Collected: 11.11.2020 13:58 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.13.2020 12:49	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.13.2020 12:49	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.13.2020 12:49	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.13.2020 12:49	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.13.2020 12:49	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.13.2020 12:49	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.13.2020 12:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 12:49	
4-Bromofluorobenzene	460-00-4	87	%	70-130	11.13.2020 12:49	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-43 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-016 Date Collected: 11.11.2020 14:04 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1410	50.5	mg/kg	11.13.2020 17:41		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.13.2020 15:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.13.2020 15:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.13.2020 15:14	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.13.2020 15:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	11.13.2020 15:14	
o-Terphenyl	84-15-1	106	%	70-135	11.13.2020 15:14	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-43 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-016 Date Collected: 11.11.2020 14:04 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 13:11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 13:11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 13:11	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 13:11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 13:11	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 13:11	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 13:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.13.2020 13:11	
4-Bromofluorobenzene	460-00-4	89	%	70-130	11.13.2020 13:11	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-43 2-4'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677780-017	Date Collected: 11.11.2020 14:06	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 15:52	Basis: Wet Weight
Seq Number: 3142697		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	229	10.0	mg/kg	11.18.2020 16:57		1



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-43 4-5'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677780-018	Date Collected: 11.11.2020 14:08	Sample Depth: 4 - 5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 17:00	Basis: Wet Weight
Seq Number: 3143301		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	24.6	10.0	mg/kg	11.25.2020 03:21		1



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-44 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-019 Date Collected: 11.11.2020 14:10 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	471	10.1	mg/kg	11.13.2020 17:46		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 15:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 15:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 15:34	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 15:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	11.13.2020 15:34	
o-Terphenyl	84-15-1	112	%	70-135	11.13.2020 15:34	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-44 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-019 Date Collected: 11.11.2020 14:10 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 13:33	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 13:33	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 13:33	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 13:33	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 13:33	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 13:33	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 13:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 13:33	
4-Bromofluorobenzene	460-00-4	88	%	70-130	11.13.2020 13:33	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-45 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-022 Date Collected: 11.11.2020 14:18 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7920	99.4	mg/kg	11.13.2020 17:52		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.13.2020 15:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.13.2020 15:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.13.2020 15:54	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.13.2020 15:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	11.13.2020 15:54	
o-Terphenyl	84-15-1	116	%	70-135	11.13.2020 15:54	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-45 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-022 Date Collected: 11.11.2020 14:18 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 14:51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 14:51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 14:51	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.13.2020 14:51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 14:51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 14:51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 14:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	87	%	70-130	11.13.2020 14:51	
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.13.2020 14:51	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-45 2-4'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677780-023	Date Collected: 11.11.2020 14:20	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 15:52	Basis: Wet Weight
Seq Number: 3142697		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	28.4	10.1	mg/kg	11.18.2020 17:15		1



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-46 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-024 Date Collected: 11.11.2020 14:28 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.9	10.0	mg/kg	11.13.2020 17:57		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.13.2020 16:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.13.2020 16:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.13.2020 16:14	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.13.2020 16:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-135	11.13.2020 16:14	
o-Terphenyl	84-15-1	98	%	70-135	11.13.2020 16:14	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-46 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-024 Date Collected: 11.11.2020 14:28 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.13.2020 15:14	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.13.2020 15:14	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.13.2020 15:14	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.13.2020 15:14	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.13.2020 15:14	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.13.2020 15:14	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.13.2020 15:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	11.13.2020 15:14	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 15:14	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-47 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-028 Date Collected: 11.11.2020 14:38 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2010	101	mg/kg	11.13.2020 18:03		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.13.2020 16:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.13.2020 16:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.13.2020 16:34	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.13.2020 16:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	11.13.2020 16:34	
o-Terphenyl	84-15-1	116	%	70-135	11.13.2020 16:34	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-47 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-028 Date Collected: 11.11.2020 14:38 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 15:36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 15:36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 15:36	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 15:36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 15:36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 15:36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 15:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 15:36	
4-Bromofluorobenzene	460-00-4	88	%	70-130	11.13.2020 15:36	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-47 2-4'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677780-029	Date Collected: 11.11.2020 14:40	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 15:52	Basis: Wet Weight
Seq Number: 3142697		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	468	9.98	mg/kg	11.18.2020 17:33		1



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-47 4-5'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677780-030	Date Collected: 11.11.2020 14:42	Sample Depth: 4 - 5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 15:54	Basis: Wet Weight
Seq Number: 3143278		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22.8	10.0	mg/kg	11.24.2020 21:24		1



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-48 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-031 Date Collected: 11.11.2020 14:46 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21.4	9.90	mg/kg	11.13.2020 18:19		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 16:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.13.2020 16:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.13.2020 16:54	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.13.2020 16:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-135	11.13.2020 16:54	
o-Terphenyl	84-15-1	124	%	70-135	11.13.2020 16:54	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-48 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-031 Date Collected: 11.11.2020 14:46 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 15:59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 15:59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 15:59	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.13.2020 15:59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 15:59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 15:59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 15:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	88	%	70-130	11.13.2020 15:59	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 15:59	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-49 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-034 Date Collected: 11.11.2020 14:54 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	862	50.2	mg/kg	11.13.2020 18:25		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 17:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.13.2020 17:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.13.2020 17:15	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.13.2020 17:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-135	11.13.2020 17:15	
o-Terphenyl	84-15-1	106	%	70-135	11.13.2020 17:15	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-49 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-034 Date Collected: 11.11.2020 14:54 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 16:21	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 16:21	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 16:21	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.13.2020 16:21	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 16:21	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 16:21	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 16:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.13.2020 16:21	
4-Bromofluorobenzene	460-00-4	88	%	70-130	11.13.2020 16:21	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-49 2-4'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677780-035	Date Collected: 11.11.2020 14:56	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 15:52	Basis: Wet Weight
Seq Number: 3142697		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	29.0	9.98	mg/kg	11.18.2020 17:39		1



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-49 4-5'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677780-036	Date Collected: 11.11.2020 14:58	Sample Depth: 4 - 5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 15:54	Basis: Wet Weight
Seq Number: 3143278		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	23.3	10.1	mg/kg	11.24.2020 21:30		1



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-50 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-037 Date Collected: 11.11.2020 15:00 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	41.0	9.96	mg/kg	11.13.2020 18:30		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 17:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	869	50.2	mg/kg	11.13.2020 17:35		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	91.9	50.2	mg/kg	11.13.2020 17:35		1
Total TPH	PHC635	961	50.2	mg/kg	11.13.2020 17:35		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	11.13.2020 17:35	
o-Terphenyl	84-15-1	102	%	70-135	11.13.2020 17:35	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-50 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-037 Date Collected: 11.11.2020 15:00 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 16:43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 16:43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 16:43	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 16:43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 16:43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 16:43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 16:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.13.2020 16:43	
4-Bromofluorobenzene	460-00-4	86	%	70-130	11.13.2020 16:43	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-50 2-4'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-038 Date Collected: 11.11.2020 15:02 Sample Depth: 2 - 4 ft
 Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.17.2020 16:00 % Moisture:
 Seq Number: 3142569 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.17.2020 17:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.17.2020 17:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.17.2020 17:58	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.17.2020 17:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	11.17.2020 17:58	
o-Terphenyl	84-15-1	114	%	70-135	11.17.2020 17:58	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-51 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-041 Date Collected: 11.11.2020 15:20 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11900	199	mg/kg	11.13.2020 18:36		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.13.2020 17:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.13.2020 17:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.13.2020 17:56	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.13.2020 17:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	11.13.2020 17:56	
o-Terphenyl	84-15-1	98	%	70-135	11.13.2020 17:56	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-51 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-041 Date Collected: 11.11.2020 15:20 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 17:06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 17:06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 17:06	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 17:06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 17:06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 17:06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 17:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 17:06	
4-Bromofluorobenzene	460-00-4	91	%	70-130	11.13.2020 17:06	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-51 2-4'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677780-042	Date Collected: 11.11.2020 15:22	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 15:52	Basis: Wet Weight
Seq Number: 3142697		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2190	50.1	mg/kg	11.18.2020 17:45		5



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-51 4-6'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677780-043	Date Collected: 11.11.2020 15:24	Sample Depth: 4 - 6 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 15:54	Basis: Wet Weight
Seq Number: 3143278		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	790	10.0	mg/kg	11.24.2020 21:35		1



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-51 6-8'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677780-044	Date Collected: 11.11.2020 15:26	Sample Depth: 6 - 8 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.24.2020 15:54	Basis: Wet Weight
Seq Number: 3143278		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	89.7	10.0	mg/kg	11.24.2020 21:40		1



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-52 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-045 Date Collected: 11.11.2020 15:40 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	134	10.0	mg/kg	11.13.2020 18:41		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.13.2020 18:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.13.2020 18:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.13.2020 18:35	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.13.2020 18:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	11.13.2020 18:35	
o-Terphenyl	84-15-1	98	%	70-135	11.13.2020 18:35	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-52 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-045 Date Collected: 11.11.2020 15:40 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 17:28	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 17:28	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 17:28	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 17:28	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 17:28	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 17:28	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 17:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	70-130	11.13.2020 17:28	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 17:28	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-53 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-049 Date Collected: 11.11.2020 15:50 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.4	10.0	mg/kg	11.13.2020 18:58		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.13.2020 18:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.13.2020 18:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.13.2020 18:55	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.13.2020 18:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	11.13.2020 18:55	
o-Terphenyl	84-15-1	106	%	70-135	11.13.2020 18:55	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-53 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-049 Date Collected: 11.11.2020 15:50 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.13.2020 17:51	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.13.2020 17:51	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.13.2020 17:51	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.13.2020 17:51	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.13.2020 17:51	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.13.2020 17:51	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.13.2020 17:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.13.2020 17:51	
4-Bromofluorobenzene	460-00-4	89	%	70-130	11.13.2020 17:51	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-54 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-053 Date Collected: 11.11.2020 16:00 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	797	10.0	mg/kg	11.13.2020 19:03		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.13.2020 19:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.13.2020 19:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.13.2020 19:16	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.13.2020 19:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	11.13.2020 19:16	
o-Terphenyl	84-15-1	114	%	70-135	11.13.2020 19:16	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-54 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-053 Date Collected: 11.11.2020 16:00 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 10:00 % Moisture:
 Seq Number: 3142232 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.13.2020 18:13	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.13.2020 18:13	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.13.2020 18:13	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	11.13.2020 18:13	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.13.2020 18:13	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	11.13.2020 18:13	U	1
Total BTEX		<0.00202	0.00202	mg/kg	11.13.2020 18:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	11.13.2020 18:13	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.13.2020 18:13	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-54 2-4'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677780-054	Date Collected: 11.11.2020 16:02	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 15:52	Basis: Wet Weight
Seq Number: 3142697		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10000	198	mg/kg	11.18.2020 17:51		20



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-55 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-055 Date Collected: 11.11.2020 16:10 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	174	9.96	mg/kg	11.13.2020 19:20		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.13.2020 19:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.13.2020 19:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.13.2020 19:36	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.13.2020 19:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	11.13.2020 19:36	
o-Terphenyl	84-15-1	102	%	70-135	11.13.2020 19:36	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-55 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-055 Date Collected: 11.11.2020 16:10 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 17:37 % Moisture:
 Seq Number: 3142322 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.2020 21:56	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.2020 21:56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.2020 21:56	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.2020 21:56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.2020 21:56	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.2020 21:56	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.2020 21:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	87	%	70-130	11.13.2020 21:56	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.13.2020 21:56	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-36 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-058 Date Collected: 11.11.2020 00:00 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 14:42 % Moisture:
 Seq Number: 3142336 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2200	100	mg/kg	11.13.2020 19:25		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.13.2020 12:00 % Moisture:
 Seq Number: 3142310 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.13.2020 19:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.13.2020 19:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.13.2020 19:56	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.13.2020 19:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	11.13.2020 19:56	
o-Terphenyl	84-15-1	98	%	70-135	11.13.2020 19:56	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: **SS-36 0-2'** Matrix: Soil Date Received: 11.12.2020 16:15
 Lab Sample Id: 677780-058 Date Collected: 11.11.2020 00:00 Sample Depth: 0 - 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 17:37 % Moisture:
 Seq Number: 3142322 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.2020 22:19	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.2020 22:19	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.2020 22:19	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.2020 22:19	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.2020 22:19	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.2020 22:19	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.2020 22:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	70-130	11.13.2020 22:19	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.13.2020 22:19	



Certificate of Analytical Results 677780

KJ Environmental & Civil Engineering, Aubrey, TX OWL 100520 D

Sample Id: SS-36 2-4'	Matrix: Soil	Date Received: 11.12.2020 16:15
Lab Sample Id: 677780-059	Date Collected: 11.11.2020 00:00	Sample Depth: 2 - 4 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.17.2020 15:52	Basis: Wet Weight
Seq Number: 3142697		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	632	9.98	mg/kg	11.18.2020 17:57		1



KJ Environmental & Civil Engineering
OWL 100520 D

Analytical Method: Chloride by EPA 300

Seq Number: 3142335
MB Sample Id: 7715158-1-BLK

Matrix: Solid
LCS Sample Id: 7715158-1-BKS

Prep Method: E300P
Date Prep: 11.13.2020
LCSD Sample Id: 7715158-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	249	100	245	98	90-110	2	20	mg/kg	11.13.2020 14:12	

Analytical Method: Chloride by EPA 300

Seq Number: 3142336
MB Sample Id: 7715159-1-BLK

Matrix: Solid
LCS Sample Id: 7715159-1-BKS

Prep Method: E300P
Date Prep: 11.13.2020
LCSD Sample Id: 7715159-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	249	100	244	98	90-110	2	20	mg/kg	11.13.2020 17:13	

Analytical Method: Chloride by EPA 300

Seq Number: 3142697
MB Sample Id: 7715393-1-BLK

Matrix: Solid
LCS Sample Id: 7715393-1-BKS

Prep Method: E300P
Date Prep: 11.17.2020
LCSD Sample Id: 7715393-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	300	279	93	277	92	90-110	1	20	mg/kg	11.18.2020 14:38	

Analytical Method: Chloride by EPA 300

Seq Number: 3143278
MB Sample Id: 7715946-1-BLK

Matrix: Solid
LCS Sample Id: 7715946-1-BKS

Prep Method: E300P
Date Prep: 11.24.2020
LCSD Sample Id: 7715946-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	243	97	241	96	90-110	1	20	mg/kg	11.24.2020 19:20	

Analytical Method: Chloride by EPA 300

Seq Number: 3143301
MB Sample Id: 7715951-1-BLK

Matrix: Solid
LCS Sample Id: 7715951-1-BKS

Prep Method: E300P
Date Prep: 11.24.2020
LCSD Sample Id: 7715951-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	245	98	246	98	90-110	0	20	mg/kg	11.25.2020 00:51	

Analytical Method: Chloride by EPA 300

Seq Number: 3142335
Parent Sample Id: 677778-001

Matrix: Soil
MS Sample Id: 677778-001 S

Prep Method: E300P
Date Prep: 11.13.2020
MSD Sample Id: 677778-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8280	199	8490	106	8500	110	90-110	0	20	mg/kg	11.13.2020 14:29	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
OWL 100520 D

Analytical Method: Chloride by EPA 300

Seq Number: 3142335
Parent Sample Id: 677778-037

Matrix: Soil
MS Sample Id: 677778-037 S

Prep Method: E300P
Date Prep: 11.13.2020
MSD Sample Id: 677778-037 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	198	99	203	102	90-110	2	20	mg/kg	11.13.2020 15:45	

Analytical Method: Chloride by EPA 300

Seq Number: 3142336
Parent Sample Id: 677780-013

Matrix: Soil
MS Sample Id: 677780-013 S

Prep Method: E300P
Date Prep: 11.13.2020
MSD Sample Id: 677780-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	19.7	199	213	97	217	99	90-110	2	20	mg/kg	11.13.2020 17:30	

Analytical Method: Chloride by EPA 300

Seq Number: 3142336
Parent Sample Id: 677780-045

Matrix: Soil
MS Sample Id: 677780-045 S

Prep Method: E300P
Date Prep: 11.13.2020
MSD Sample Id: 677780-045 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	134	201	327	96	334	99	90-110	2	20	mg/kg	11.13.2020 18:47	

Analytical Method: Chloride by EPA 300

Seq Number: 3142697
Parent Sample Id: 677780-023

Matrix: Soil
MS Sample Id: 677780-023 S

Prep Method: E300P
Date Prep: 11.17.2020
MSD Sample Id: 677780-023 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	28.4	198	247	110	247	110	90-110	0	20	mg/kg	11.18.2020 17:21	

Analytical Method: Chloride by EPA 300

Seq Number: 3142697
Parent Sample Id: 678096-008

Matrix: Soil
MS Sample Id: 678096-008 S

Prep Method: E300P
Date Prep: 11.17.2020
MSD Sample Id: 678096-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1920	199	2130	106	2120	101	90-110	0	20	mg/kg	11.18.2020 14:56	

Analytical Method: Chloride by EPA 300

Seq Number: 3143278
Parent Sample Id: 678867-001

Matrix: Soil
MS Sample Id: 678867-001 S

Prep Method: E300P
Date Prep: 11.24.2020
MSD Sample Id: 678867-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	13.8	200	198	92	197	92	90-110	1	20	mg/kg	11.24.2020 19:36	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
OWL 100520 D

Analytical Method: Chloride by EPA 300

Seq Number: 3143278
Parent Sample Id: 678867-011

Matrix: Soil
MS Sample Id: 678867-011 S

Prep Method: E300P
Date Prep: 11.24.2020
MSD Sample Id: 678867-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	37.9	200	231	97	243	102	90-110	5	20	mg/kg	11.24.2020 20:48	

Analytical Method: Chloride by EPA 300

Seq Number: 3143301
Parent Sample Id: 677769-017

Matrix: Soil
MS Sample Id: 677769-017 S

Prep Method: E300P
Date Prep: 11.24.2020
MSD Sample Id: 677769-017 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<9.94	199	202	102	203	102	90-110	0	20	mg/kg	11.25.2020 01:07	

Analytical Method: Chloride by EPA 300

Seq Number: 3143301
Parent Sample Id: 677769-051

Matrix: Soil
MS Sample Id: 677769-051 S

Prep Method: E300P
Date Prep: 11.24.2020
MSD Sample Id: 677769-051 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5470	202	5690	109	5650	91	90-110	1	20	mg/kg	11.25.2020 02:19	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142309
MB Sample Id: 7715199-1-BLK

Matrix: Solid
LCS Sample Id: 7715199-1-BKS

Prep Method: SW8015P
Date Prep: 11.13.2020
LCSD Sample Id: 7715199-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1090	109	1140	114	70-135	4	35	mg/kg	11.13.2020 13:20	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	1120	112	70-135	6	35	mg/kg	11.13.2020 13:20	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	130		114		110		70-135	%	11.13.2020 13:20
o-Terphenyl	125		110		110		70-135	%	11.13.2020 13:20

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142310
MB Sample Id: 7715200-1-BLK

Matrix: Solid
LCS Sample Id: 7715200-1-BKS

Prep Method: SW8015P
Date Prep: 11.13.2020
LCSD Sample Id: 7715200-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	952	95	983	98	70-135	3	35	mg/kg	11.13.2020 13:20	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	1090	109	70-135	3	35	mg/kg	11.13.2020 13:20	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		129		119		70-135	%	11.13.2020 13:20
o-Terphenyl	102		102		103		70-135	%	11.13.2020 13:20

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
 OWL 100520 D

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142569

MB Sample Id: 7715398-1-BLK

Matrix: Solid

LCS Sample Id: 7715398-1-BKS

Prep Method: SW8015P

Date Prep: 11.17.2020

LCSD Sample Id: 7715398-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	974	97	966	97	70-135	1	35	mg/kg	11.17.2020 11:28	
Diesel Range Organics (DRO)	<50.0	1000	1070	107	1070	107	70-135	0	35	mg/kg	11.17.2020 11:28	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		133		133		70-135	%	11.17.2020 11:28
o-Terphenyl	105		102		102		70-135	%	11.17.2020 11:28

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142309

Matrix: Solid

MB Sample Id: 7715199-1-BLK

Prep Method: SW8015P

Date Prep: 11.13.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.13.2020 13:00	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142310

Matrix: Solid

MB Sample Id: 7715200-1-BLK

Prep Method: SW8015P

Date Prep: 11.13.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.13.2020 13:00	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142569

Matrix: Solid

MB Sample Id: 7715398-1-BLK

Prep Method: SW8015P

Date Prep: 11.17.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.17.2020 11:08	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142309

Matrix: Soil

Parent Sample Id: 677778-001

MS Sample Id: 677778-001 S

Prep Method: SW8015P

Date Prep: 11.13.2020

MSD Sample Id: 677778-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	999	1130	113	1040	104	70-135	8	35	mg/kg	11.13.2020 14:20	
Diesel Range Organics (DRO)	<50.0	999	1010	101	1120	112	70-135	10	35	mg/kg	11.13.2020 14:20	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		107		70-135	%	11.13.2020 14:20
o-Terphenyl	116		98		70-135	%	11.13.2020 14:20

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

[D] = 100*(C-A) / B
 RPD = 200* |(C-E) / (C+E)|
 [D] = 100 * (C) / [B]
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
 OWL 100520 D

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142310

Parent Sample Id: 677780-013

Matrix: Soil

MS Sample Id: 677780-013 S

Prep Method: SW8015P

Date Prep: 11.13.2020

MSD Sample Id: 677780-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	1120	112	1030	103	70-135	8	35	mg/kg	11.13.2020 14:20	
Diesel Range Organics (DRO)	<50.1	1000	1090	109	1120	112	70-135	3	35	mg/kg	11.13.2020 14:20	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	117		113		70-135	%	11.13.2020 14:20
o-Terphenyl	108		118		70-135	%	11.13.2020 14:20

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142569

Parent Sample Id: 677883-028

Matrix: Soil

MS Sample Id: 677883-028 S

Prep Method: SW8015P

Date Prep: 11.17.2020

MSD Sample Id: 677883-028 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.3	1010	1080	107	1120	112	70-135	4	35	mg/kg	11.17.2020 12:28	
Diesel Range Organics (DRO)	<50.3	1010	1130	112	1050	105	70-135	7	35	mg/kg	11.17.2020 12:28	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	109		107		70-135	%	11.17.2020 12:28
o-Terphenyl	104		116		70-135	%	11.17.2020 12:28

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142232

MB Sample Id: 7715121-1-BLK

Matrix: Solid

LCS Sample Id: 7715121-1-BKS

Prep Method: SW5035A

Date Prep: 11.13.2020

LCSD Sample Id: 7715121-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.103	103	70-130	2	35	mg/kg	11.13.2020 08:09	
Toluene	<0.00200	0.100	0.0957	96	0.0973	97	70-130	2	35	mg/kg	11.13.2020 08:09	
Ethylbenzene	<0.00200	0.100	0.0868	87	0.0879	88	71-129	1	35	mg/kg	11.13.2020 08:09	
m,p-Xylenes	<0.00400	0.200	0.175	88	0.179	90	70-135	2	35	mg/kg	11.13.2020 08:09	
o-Xylene	<0.00200	0.100	0.0882	88	0.0892	89	71-133	1	35	mg/kg	11.13.2020 08:09	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		99		99		70-130	%	11.13.2020 08:09
4-Bromofluorobenzene	89		86		86		70-130	%	11.13.2020 08:09

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

[D] = 100*(C-A) / B
 RPD = 200* |(C-E) / (C+E)|
 [D] = 100 * (C) / [B]
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
 OWL 100520 D

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142319

Matrix: Solid

Prep Method: SW5035A

Date Prep: 11.13.2020

MB Sample Id: 7715122-1-BLK

LCS Sample Id: 7715122-1-BKS

LCSD Sample Id: 7715122-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0905	91	0.0952	95	70-130	5	35	mg/kg	11.13.2020 13:13	
Toluene	<0.00200	0.100	0.0848	85	0.0908	91	70-130	7	35	mg/kg	11.13.2020 13:13	
Ethylbenzene	<0.00200	0.100	0.0872	87	0.0917	92	71-129	5	35	mg/kg	11.13.2020 13:13	
m,p-Xylenes	<0.00400	0.200	0.179	90	0.187	94	70-135	4	35	mg/kg	11.13.2020 13:13	
o-Xylene	<0.00200	0.100	0.0890	89	0.0927	93	71-133	4	35	mg/kg	11.13.2020 13:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		100		101		70-130	%	11.13.2020 13:13
4-Bromofluorobenzene	114		101		109		70-130	%	11.13.2020 13:13

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142322

Matrix: Solid

Prep Method: SW5035A

Date Prep: 11.13.2020

MB Sample Id: 7715196-1-BLK

LCS Sample Id: 7715196-1-BKS

LCSD Sample Id: 7715196-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.104	104	70-130	3	35	mg/kg	11.13.2020 19:53	
Toluene	<0.00200	0.100	0.0977	98	0.100	100	70-130	2	35	mg/kg	11.13.2020 19:53	
Ethylbenzene	<0.00200	0.100	0.0909	91	0.0932	93	71-129	2	35	mg/kg	11.13.2020 19:53	
m,p-Xylenes	<0.00400	0.200	0.183	92	0.188	94	70-135	3	35	mg/kg	11.13.2020 19:53	
o-Xylene	<0.00200	0.100	0.0908	91	0.0933	93	71-133	3	35	mg/kg	11.13.2020 19:53	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		100		99		70-130	%	11.13.2020 19:53
4-Bromofluorobenzene	92		84		86		70-130	%	11.13.2020 19:53

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142232

Matrix: Soil

Prep Method: SW5035A

Date Prep: 11.13.2020

Parent Sample Id: 677769-001

MS Sample Id: 677769-001 S

MSD Sample Id: 677769-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0928	93	0.0981	98	70-130	6	35	mg/kg	11.13.2020 08:54	
Toluene	<0.00201	0.100	0.0820	82	0.0883	88	70-130	7	35	mg/kg	11.13.2020 08:54	
Ethylbenzene	<0.00201	0.100	0.0770	77	0.0840	84	71-129	9	35	mg/kg	11.13.2020 08:54	
m,p-Xylenes	<0.00402	0.201	0.154	77	0.169	85	70-135	9	35	mg/kg	11.13.2020 08:54	
o-Xylene	<0.00201	0.100	0.0766	77	0.0839	84	71-133	9	35	mg/kg	11.13.2020 08:54	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		99		70-130	%	11.13.2020 08:54
4-Bromofluorobenzene	85		84		70-130	%	11.13.2020 08:54

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

[D] = 100*(C-A) / B
 RPD = 200* |(C-E) / (C+E)|
 [D] = 100 * (C) / [B]
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



KJ Environmental & Civil Engineering
 OWL 100520 D

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142319
 Parent Sample Id: 677778-001

Matrix: Soil
 MS Sample Id: 677778-001 S

Prep Method: SW5035A
 Date Prep: 11.13.2020
 MSD Sample Id: 677778-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.106	106	0.0873	87	70-130	19	35	mg/kg	11.13.2020 13:58	
Toluene	<0.00200	0.100	0.0992	99	0.0768	77	70-130	25	35	mg/kg	11.13.2020 13:58	
Ethylbenzene	<0.00200	0.100	0.0997	100	0.0724	72	71-129	32	35	mg/kg	11.13.2020 13:58	
m,p-Xylenes	<0.00401	0.200	0.202	101	0.147	73	70-135	32	35	mg/kg	11.13.2020 13:58	
o-Xylene	<0.00200	0.100	0.0997	100	0.0732	73	71-133	31	35	mg/kg	11.13.2020 13:58	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		105		70-130	%	11.13.2020 13:58
4-Bromofluorobenzene	106		113		70-130	%	11.13.2020 13:58

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142322
 Parent Sample Id: 677780-055

Matrix: Soil
 MS Sample Id: 677780-055 S

Prep Method: SW5035A
 Date Prep: 11.13.2020
 MSD Sample Id: 677780-055 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.108	107	0.118	118	70-130	9	35	mg/kg	11.13.2020 20:38	
Toluene	<0.00201	0.101	0.100	99	0.111	111	70-130	10	35	mg/kg	11.13.2020 20:38	
Ethylbenzene	<0.00201	0.101	0.0897	89	0.0996	100	71-129	10	35	mg/kg	11.13.2020 20:38	
m,p-Xylenes	<0.00402	0.201	0.180	90	0.201	100	70-135	11	35	mg/kg	11.13.2020 20:38	
o-Xylene	<0.00201	0.101	0.0894	89	0.0991	99	71-133	10	35	mg/kg	11.13.2020 20:38	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		70-130	%	11.13.2020 20:38
4-Bromofluorobenzene	88		87		70-130	%	11.13.2020 20:38

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Setting the Standard since 1990
Stafford, Texas (281-240-4200)
Dallas, Texas (214-902-0300)
Service Center - San Antonio, Texas (210-509-3334)

CHAIN OF CUSTODY

Page 1 of 6

Odessa, Texas (432-563-1800)
Norcross, Georgia (770-449-8800)
Lakeland, Florida (863-646-8526)
Tampa, Florida (813-620-2000)

677780

Client / Reporting Information			Project Information			Analytical Information			Matrix Codes											
Company Name / Branch: K.J.E. Environmental & Civil Engineering			Project Name/Number: <u>OWL 100520D</u>			Xenoco Quote #			Xenoco Job #											
Company Address: 500 Moseley Road, Cross Roads, Texas 76227			Project Location: <u>Lee County</u>			Xenoco Job #			Xenoco Job #											
Email: <u>treddick@kjc-us.com</u> Phone No: (940)387-0805			Invoice To: <u>Lee County</u>			Xenoco Job #			Xenoco Job #											
Project Contact: <u>Travis Reddick</u>			Offfield Water Logistics			Xenoco Job #			Xenoco Job #											
Sampler's Name			PO Number:			Xenoco Job #			Xenoco Job #											
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	FCI	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX 8260 (5035)	TPH	CHLORIDES	Notes		
1	SS-37	0-2'	11/1/20	12:50	CS	1								X	X	X		Analyze 0-2' samples. Hold all deeper pending 0-2' results.		
2	SS-38	0-2'		13:00										X	X	X				
3	SS-38	2-4'		13:02										X	X	X				
4	SS-38	4-6'		13:04										X	X	X				
5	SS-39	0-2'		13:16										X	X	X				
6	SS-39	2-4'		13:18										X	X	X				
7	SS-39	4-5'		13:20										X	X	X				
8	SS-40	0-2'		13:24										X	X	X				
9	SS-40	2-4'		13:26										X	X	X				
10	SS-41	0-2'		13:30										X	X	X				
Turnaround Time [Business days]																				
Data Deliverable Information																				
<input type="checkbox"/> Same Day TAT <input type="checkbox"/> 5 Day TAT <input type="checkbox"/> Next Day EMERGENCY <input type="checkbox"/> 7 Day TAT <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> Contract TAT <input checked="" type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> TRRP Checklist																				
TAT Starts Day received by Lab, if received by 5:00 pm																				
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																				
Relinquished by: <u>[Signature]</u> Date Time: <u>11/2/2020 16:15</u>			Received By: <u>[Signature]</u> Date Time: <u>11-2-2020 16:15</u>			Relinquished By: <u>[Signature]</u> Date Time: <u>11-2-2020 16:15</u>			Received By: <u>[Signature]</u> Date Time: <u>11-2-2020 16:15</u>			Relinquished By: <u>[Signature]</u> Date Time: <u>11-2-2020 16:15</u>			Received By: <u>[Signature]</u> Date Time: <u>11-2-2020 16:15</u>			Relinquished By: <u>[Signature]</u> Date Time: <u>11-2-2020 16:15</u>		
FED-EX / UPS: Tracking #																				
On Ice <input type="checkbox"/> Cooler Temp. <u>4.8/6.6</u> Thermo, Corr. Factor																				



Setting the Standard since 1990
 Starford, Texas (281-240-4200)
 Dallas, Texas (214-902-0300)

CHAIN OF CUSTODY

Page 3 of 6

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)
 Tampa, Florida (813-620-2000)

677780

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes													
Company Name / Branch: KJE, Environmental & Civil Engineering		Project Name/Number: OWL100520D OWL100520D		Xenco Quote #		Xenco Job #													
Company Address: 500 Mosely Road, Cross Roads, Texas 76227		Project Location: Lea County		Xenco Job #		Xenco Job #													
Email: fredrick@kje-us.com fredrick@kje-us.com Phone No: (940)387-0805		Invoice To: Lea County		Xenco Job #		Xenco Job #													
Project Contact: fredrick@kje-us.com Fredrick		Offield Water Logistics		Xenco Job #		Xenco Job #													
Samplers Name: fredrick@kje-us.com Fredrick		PO Number:		Xenco Job #		Xenco Job #													
No.	Field ID / Point of Collection	Sample Depth	Collection Date	Time	Matrix	# of bottles	HCI	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX 8260 (5035)	TPH	CHLORIDES	Notes:	
1	SS-44 4-5'	4-5'	11/11/20	14:14	CS	1									X	X	X		
2	SS-45 0-2'	0-2'		14:18											X	X	X		
3	SS-45 2-4'	2-4'		14:20											X	X	X		
4	SS-46 0-2'	0-2'		14:28											X	X	X		
5	SS-46 2-4'	2-4'		14:30											X	X	X		
6	SS-46 4-6'	4-6'		14:32											X	X	X		
7	SS-46 6-8'	6-8'		14:34											X	X	X		
8	SS-47 0-2'	0-2'		14:38											X	X	X		
9	SS-47 2-4'	2-4'		14:40											X	X	X		
10	SS-47 4-5'	4-5'		14:42											X	X	X		
Turnaround Time (Business days)		Data Deliverable Information		Notes:															
<input type="checkbox"/> Same Day TAT		<input type="checkbox"/> 5 Day TAT		<input type="checkbox"/> Level II Std QC		<input type="checkbox"/> Level IV (Full Data Pkg /raw data)													
<input type="checkbox"/> Next Day EMERGENCY		<input type="checkbox"/> 7 Day TAT		<input type="checkbox"/> Level III Std QC+ Forms		<input type="checkbox"/> TRRP Level IV													
<input type="checkbox"/> 2 Day EMERGENCY		<input type="checkbox"/> Contract TAT		<input type="checkbox"/> Level 3 (CLP Forms)		<input type="checkbox"/> UST / RG 411													
<input checked="" type="checkbox"/> 3 Day EMERGENCY				<input type="checkbox"/> TRRP Checklist															
TAT Starts Day received by Lab. if received by 5:00 pm																			
Relinquished by: Signature 11/12/2020		Date Time: 16:15		Received By: Signature		Date Time: 11-12-20 16:15		Relinquished By: Signature		Date Time: 11-12-20 16:15		Custody Seal #		Preserved where applicable		On Ice		Cooler Temp. Therm. Corr. Factor	
Relinquished by: Signature		Date Time:		Received By: Signature		Date Time:		Relinquished By: Signature		Date Time:		Custody Seal #		Preserved where applicable		On Ice		Cooler Temp. Therm. Corr. Factor	
Relinquished by: Signature		Date Time:		Received By: Signature		Date Time:		Relinquished By: Signature		Date Time:		Custody Seal #		Preserved where applicable		On Ice		Cooler Temp. Therm. Corr. Factor	



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas Texas (214-902-0300)

CHAIN OF CUSTODY

Page 4 of 6

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

Odessa, Texas (432-563-1800)
 Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)
 Tampa, Florida (813-620-2000)

677780

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes													
Company Name / Branch: KJE Environmental & Civil Engineering		Project Name/Number: 02113028469		Xenco Quote #		Xenco Job #													
Company Address: 500 Mosely Road, Cross Roads, Texas 76227		Project Location: Le9 County		Xenoco															
Email: traddick@kje-us.com Phone No: (940)387-0805		Invoice To: Offfield Water Logistics		Xenoco															
Project Contact: Travis Reddick		PO Number:		Xenoco															
Samplers Name		Collection		Xenoco															
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCI	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX 8260 (5035)	TPH	CHLORIDES	Notes	
1	SS-48	0-2'	11/11/20	12:46	CS	1									X	X	X		
2	SS-48	2-4'	11/11/20	14:48											X	X	X		
3	SS-48	4-6'	11/11/20	14:50											X	X	X		
4	SS-49	0-2'	11/11/20	14:54											X	X	X		
5	SS-49	2-4'	11/11/20	14:56											X	X	X		
6	SS-49	4-5'	11/11/20	14:58											X	X	X		
7	SS-50	0-2'	11/11/20	15:00											X	X	X		
8	SS-50	2-4'	11/11/20	15:02											X	X	X		
9	SS-50	4-6'	11/11/20	15:04											X	X	X		
10	SS-50	6-7'	11/11/20	15:06											X	X	X		
Turnaround Time (Business days)		Data Deliverable Information		Notes:														Analyze 0-2' samples. Hold all deeper samples pending 0-2' results. 3 Day TAT	
<input type="checkbox"/> Same Day TAT		<input type="checkbox"/> 5 Day TAT		<input type="checkbox"/> Level II Std QC		<input type="checkbox"/> Level IV (Full Data Pkg /raw data)													
<input type="checkbox"/> Next Day EMERGENCY		<input type="checkbox"/> 7 Day TAT		<input type="checkbox"/> Level III Std QC+ Forms		<input type="checkbox"/> TRRP Level IV													
<input type="checkbox"/> 2 Day EMERGENCY		<input type="checkbox"/> Contract TAT		<input type="checkbox"/> Level 3 (CLP Forms)		<input type="checkbox"/> UST / RG 411													
<input checked="" type="checkbox"/> 3 Day EMERGENCY				<input type="checkbox"/> TRRP Checklist															
TAT Starts Day received by Lab, if received by 5:00 pm		SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY		FED-EX / UPS, Tracking #															
Relinquished by: <i>S. [Signature]</i>		Date Time: 11-15-20		Received By: <i>[Signature]</i>		Date Time: 11-17-20		Relinquished By: <i>[Signature]</i>		Date Time: 11-17-20		Custody Seal #		Preserved where applicable		On Ice		Cooler Temp. Thermo. Corr. Factor	
Relinquished by:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Custody Seal #		Preserved where applicable		On Ice		Cooler Temp. Thermo. Corr. Factor	
Relinquished by:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Custody Seal #		Preserved where applicable		On Ice		Cooler Temp. Thermo. Corr. Factor	



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas, Texas (214-902-0300)

CHAIN OF CUSTODY

Page 6 of 6

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

Odessa, Texas (432-563-1800)
 Norcross, Georgia (770-449-8800)
 Lakeland, Florida (863-646-8526)
 Tampa, Florida (813-620-2000)

6777180

Client / Reporting Information		Project Information		Analytical Information										Matrix Codes				
Company Name / Branch: KJE, Environmental & Civil Engineering		Project Name/Number: ENVIRONMENTAL OUL 100520D												S = Soil/Sed/Solid GW = Ground Water DW = Drinking Water P = Product SW = Surface water SL = Sludge OW = Ocean/Sea Water W = Wipe O = Oil MW = Waste Water A = Air				
Company Address: 500 Mosely Road, Cross Roads, Texas 76227		Project Location: Lea County																
Email: travis@xenco.com trreddick@kje-us.com		Invoice To: Offfield Water Logistics																
Phone No: (940)387-0805		PO Number:																
Project Contact: Travis Reddick																		
Lab/Service Name																		
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX 8260 (5035)	TPH	CHLORIDES	Notes:
1	SS-53 4-6'	4-6'	11/11/20	15:54	CS	1									X	X	X	
2	SS-53 6-8'	6-8'	11/11/20	15:56											X	X	X	
3	SS-54 6-2'	0-2'	11/11/20	16:00											X	X	X	
4	SS-54 2-4'	2-4'	11/11/20	16:02											X	X	X	
5	SS-55 0-2'	0-2'	11/11/20	16:10											X	X	X	
6	SS-55 2-4'	2-4'	11/11/20	16:12											X	X	X	
7																		
8																		
9																		
10																		

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: KJ Environmental & Civil Engineering

Date/ Time Received: 11.12.2020 04.15.00 PM

Work Order #: 677780

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	6.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6*Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	Yes
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

Had four extra samples, Travis Reddick gave permission to add it to end of this COC.

Samples received in bulk containers.

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by: Cloe Clifton
Cloe Clifton

Date: 11.13.2020

Checklist reviewed by: Jessica Kramer
Jessica Kramer

Date: 11.13.2020

APPENDIX F – NMOCD APPROVED C-141 FORM

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: OWL SWD Operation, LLC	OGRID: 380339
Contact Name: Mr. Phillip Sanders	Contact Telephone: 210-906-3551
Contact email: psanders@oilfieldwaterlogistics.com	Incident # (assigned by OCD)
Contact mailing address: 8201 Preston Road, Suite 520, Dallas, Texas 75225	

Location of Release Source

Latitude 32.059697 _____ Longitude : 103.616531 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Harrier Surface Line	Site Type Pipeline Easement
Date Release Discovered 10.4.2020 9:55am	API# (if applicable): N/A

Unit Letter	Section	Township	Range	County
L2, L3, L4 L1	7, 18	26S	33E	Lea

Surface Owner: State Federal Tribal Private (Name: BLM)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 4,800	Volume Recovered (bbls): 60
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Unknown vehicle ran over the pipeline, causing a rupture.

State of New Mexico
Oil Conservation Division


Page 2

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? The release is larger than 25bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, KJE notified Mike Bratcher with the OCD and Jim Amos with the BLM regarding the release on October 7, 2020.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Phillip Sanders</u>	Title: <u>HSE Director</u>
Signature: <u></u>	Date: <u>10/5/20</u>
email: <u>psanders@oilfieldwaterlogistics.com</u>	Telephone: <u>(432) 269-3735</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Phillip Sander Title: HSE Director
Signature: [Handwritten Signature] Date: 1/2/21
email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Phyllis Sanders Title: HSE Director
 Signature: [Handwritten Signature] Date: 1/2/20 2021
 email: _____ Telephone: _____

OCD Only

Received by: Chad Hensley Date: 03/18/2021

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: Chad Hensley Date: 03/18/2021

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Incident ID	NRM2015756964
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432- 682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD)
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude: 32.05101° Longitude: -103.61744°

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mesa B 8115 JVP #5H Produced Water Line	Site Type: Flowline
Date Release Discovered: 5/18/2020	API# (if applicable) Nearest well: Mesa B #5H API #30-025-42128

Unit Letter	Section	Township	Range	County
M	7	26S	33E	Lea

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 1 BBL	Volume Recovered (bbls) 0 BBL
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 276 BBL	Volume Recovered (bbls) 276 BBL
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A split in the produced water flowline released produced water into several gullies and a pipeline ROW.

The reported volume was determined by measuring the area of the "wetted" area from a drone picture. Then, using analytical data to identify an impacted depth and an estimated porosity, a calculated volume of the release was estimated to be 276 BBL of unrecovered produced water, plus negligible oil.

Form C-141

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	NRM2015756964
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? The spill volume was greater than 25 BBL, which the NMOCD Rules define as a major release.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? No. The release was not believed to be greater than 25 BBL. However, evaluation of analytical data is being used to estimate a greater volume of a release.	

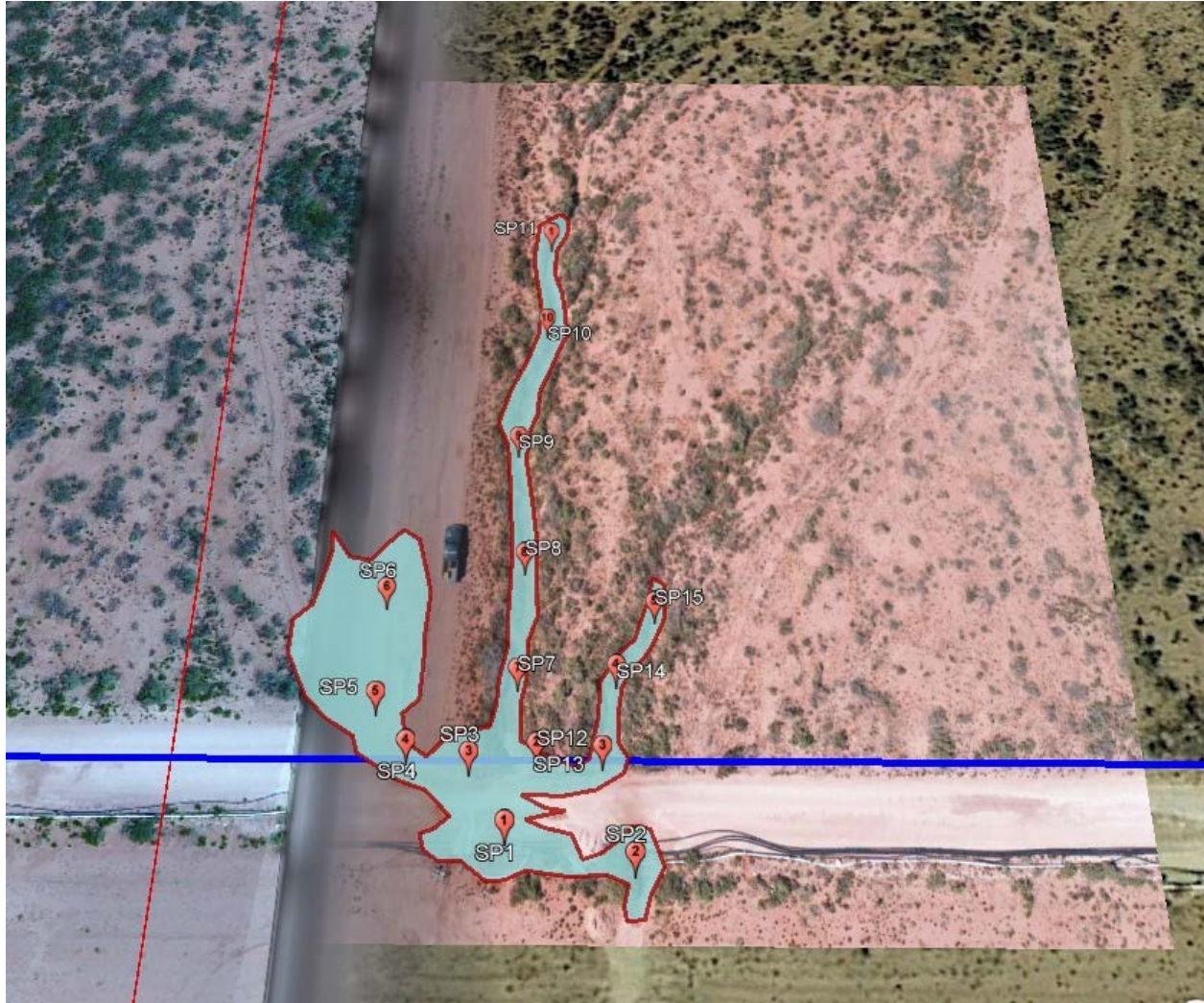
Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why: _____ _____ _____
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: Bob Hall Title: Environmental Manager Signature: <u>Bob Hall</u> Date: <u>6/3/2020</u> email: <u>bhall@btaoil.com</u> Telephone: <u>432-682-3753</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>6/5/2020</u>

Mesa B 8115 JVP #005H
May 18, 2020

NRM2015756964



Location Mesa B #005H
API # 30-025-421282
Spill Date 5/18/2020

Spill Dimensions

ENTER - Length of Spill feet
ENTER - Width of Spill feet
ENTER - Saturation Depth of Spill inches

ENTER - Porosity Factor decimal

Oil Cut - Well Test / Vessel Throughput or Contents

Oil
 Water
 Calculated Oil Cut

Volume Recovered in Truck / Containment

ENTER - Recovered Oil BBL
ENTER - Recovered Water BBL

Calculated Values

Release of Oil in Soil - Unrecovered BBL
 Release of Water in Soil - Unrecovered BBL
 Unrecovered Total Release BBL

Calculated Values

Total Release of Oil BBL
 Total Release of Water BBL
 Total Release BBL

Types of Soil	Porosity Factor
Gravel	0.25
Sand	0.20
Clay/silt/sand Mix	0.15
Clay	0.05
Caliche	0.03
Unknown	0.25

(Length X Width X Depth X 1 ft/12 in) X Porosity
 5.615 ft³ / BBL

X Oil Cut
 (or Water Cut)

APPENDIX G – NEW MEXICO WELL LOGS



New Mexico Office of the State Engineer Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)			(NAD83 UTM in meters)
Well Tag	POD Number	Q64 Q16 Q4 Sec Tws Rng	X	Y	
C 03595	POD1	4 2 3 21 26S 32E	624423	3544045	

Driller License: 1654	Driller Company: NOT WORKING FOR HIRE--SIRMAN DRILLING AND CONSTRUC	
Driller Name:		
Drill Start Date: 09/30/2013	Drill Finish Date: 09/30/2013	Plug Date:
Log File Date: 10/29/2013	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 6.00	Depth Well: 280 feet	Depth Water: 180 feet

Water Bearing Stratifications:	Top	Bottom	Description
	160	200	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	200	240

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

12/31/20 7:17 AM

POINT OF DIVERSION SUMMARY



OSE POD Locations

Points of Diversion visible at 1:19,000 with 1,000 features per view

Water Rights Reporting System Online Meter Reading

Map navigation and search interface including a search bar with the text "Find address or place", a search icon, and various map control icons such as zoom in, zoom out, home, and print.



1:19055
0.3mi
103.568 32.073 Degrees

All Rights Reserved

Esri, HERE, IPC | USDA FSA, GeoEye, Ma

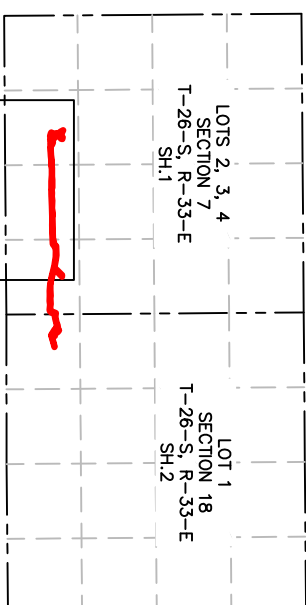
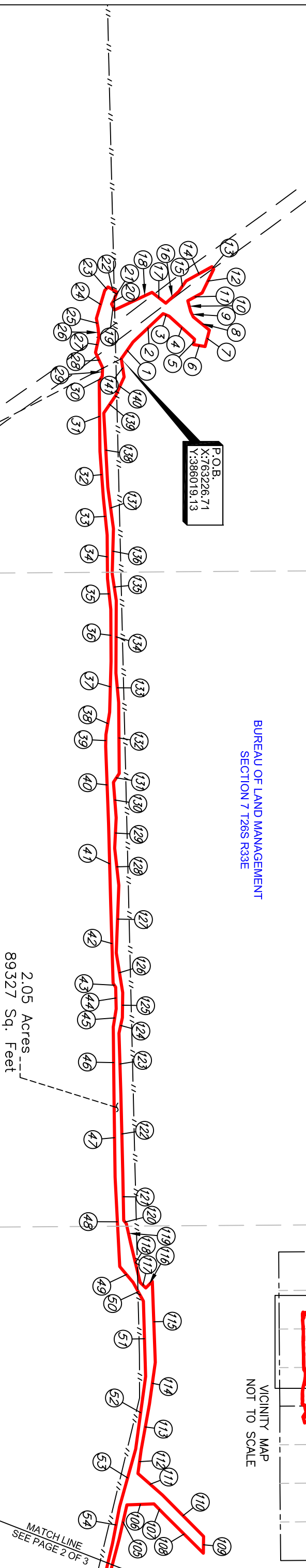
APPENDIX H – METES AND BOUNDS SURVEY

HARRIER TEMPORARY PIPELINE GROUND CONTAMINATION AREA LEA COUNTY, NM

SECTION 7, SECTION 18, T-26-S R-33-E, N.M.P.M.

LEGEND	
	CONTAMINATION LIMITS
	EDGE OF EASEMENT
	EXISTING PIPELINE
	FENCE
	FIBER OPTIC
	OVERHEAD POWERLINE
	ROAD WAY
	SURVEY LINE
	SUBJECT TRACT
	UNDERGROUND ELECTRIC
	WATER LINE

BUREAU OF LAND MANAGEMENT
SECTION 7 T26S R33E



VICINITY MAP
NOT TO SCALE

LOT 2
SECTION 7,
T26S, R33E, NMMPM

LOT 3
SECTION 7,
T26S, R33E, NMMPM

LOT 4
SECTION 7,
T26S, R33E, NMMPM

CALCULATED
CORNER
X:762384.25
Y:385582.79

FND. MON.
W/BRASS CAP
X:762384.90
Y:385481.48

S 62°37'09" W 948.75'

S 00°22'09" E
101.32'

EXISTING LEASE ROAD

SECTION LINE

SECTION 12,
T26S, R32E, NMMPM

*PRELIMINARY, THIS DOCUMENT SHALL NOT BE
RECORDED FOR ANY PURPOSE AND SHALL NOT BE
USED OR VIEWED OR RELEAD UPON AS A FINAL
SURVEY DOCUMENT.*

10/08/2020

W. ANDREW MCLAUGHLIN, NEW MEXICO P.S. NO. 23385
SURVEYED ON GROUND: OCTOBER 06, 2020

PIPELINE, STATION, OR ACCOUNT NUMBER	SCALE	1" = 200'
HARRIER TEMPORARY PIPELINE SPILL	1" = 200'	

FILE NUMBER	CADD FILE NAME	SCALE	CONST. YR.
N/A	300_53_HARRIER_TEMPORARY_PIPELINE_SPILL_BASE	KAS	N/A

REV. NO.	DESCRIPTION	BY	DATE	APP.
---	---	---	---	---

PROJECT NO.	ORFS-300-53
AFE NO.	PO_2466

DWG. NO.	300_53_HARRIER_TEMPORARY_PIPELINE_SPILL_SECTION 18
SHT.	01 OF 03

1. I, ANDREW MCLAUGHLIN, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23385, DO HEREBY CERTIFY THAT THIS CONTAMINATION AREA EXHIBIT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH THIS IS BASED WAS PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, THAT I AM A LICENSED SURVEYOR IN THE STATE OF NEW MEXICO AND THAT I AM A MEMBER IN GOOD STANDING WITH THE SURVEYORS ASSOCIATION OF NEW MEXICO AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS EXHIBIT, IN NON-TRANSFERABLE AND MADE FOR THIS TRANSACTION ONLY.
2. THE INFORMATION HAS BEEN PROVIDED BY THE CLIENT, AS SUCH, OPEN RANGE FIELD SERVICES DOES NOT WARRANT OR GUARANTEE THAT ALL CONFLICTS, EASEMENTS OR ENCUMBRANCES ARE SHOWN. ADDITIONAL INFORMATION SHOWS OR DESCRIBED IS FOR INFORMATIONAL PURPOSES ONLY.
3. ALL BEARINGS, DISTANCES AND COORDINATES DESCRIBED HEREIN ARE GRID BASED UPON A TRANSVERSE MERCATOR PROJECTION AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM (NEW MEXICO EAST ZONE), OF THE NORTH AMERICAN DATUM OF 1983 (NAD83) IN U.S. SURVEY FEET.
4. FIELD NOTES AND RELATED INFORMATION IS FILED IN THE OFFICE OF THIS SURVEYOR AND FURTHER DESCRIBES THE RECONSTRUCTION OF THE RESPECTIVE BOUNDARY.
5. LOCATION OF THE GROUND CONTAMINATION AREA WAS MARKED IN THE FIELD BY CLIENT WHICH WAS SUBSEQUENTLY SURVEYED BY OPEN RANGE FIELD SERVICES, LLC (ORFS). ORFS TAKES NO RESPONSIBILITY FOR THE METHOD USED IN DETERMINING THE LIMITS OF THE DESCRIBED AREA.
6. UNLESS OTHERWISE NOTED, MONUMENTS WITH BRASS CAPS ARE STAMPED "USGLO" WITH SECTION CORNER OR QUARTER CORNER INFORMATION ALSO STAMPED ON CAP.

OILFIELD WATER
LOGISTICS

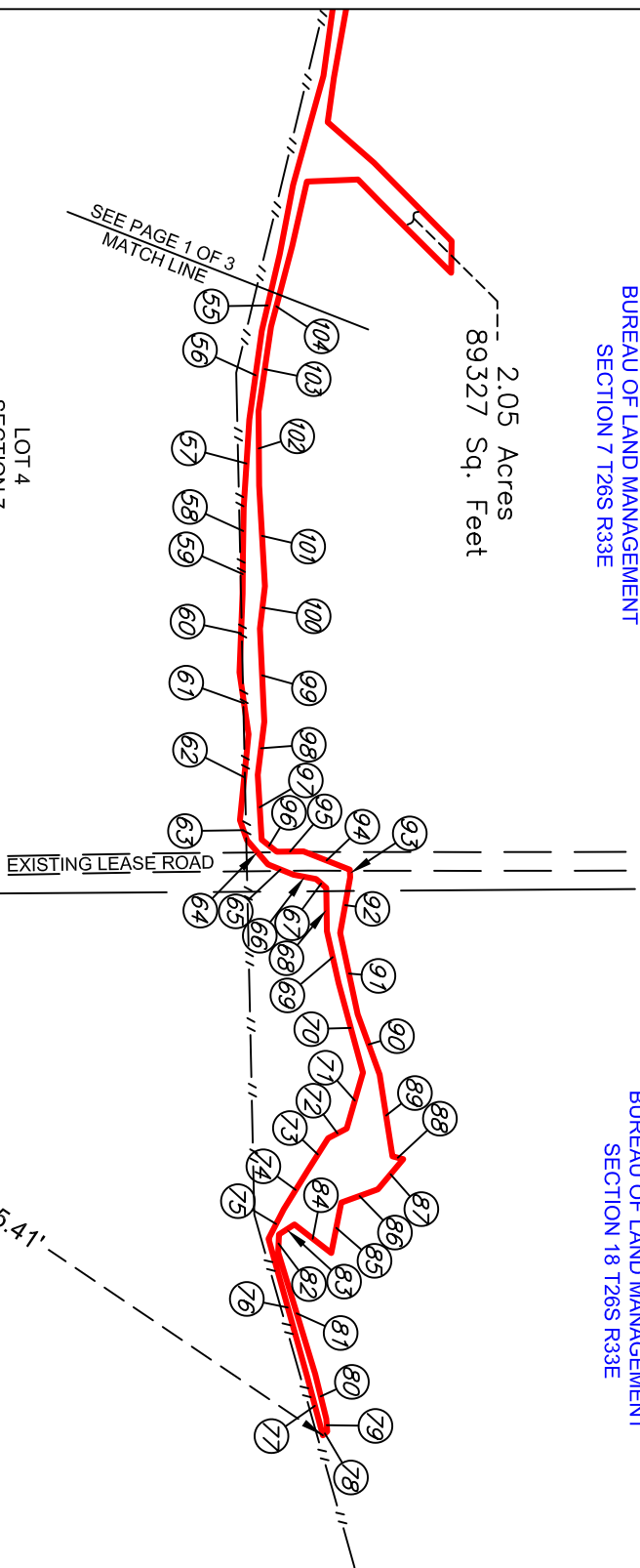
OPEN RANGERS
FIELD SERVICES, LLC.

1503 S. BARBER, BARNA, TX 72085
TBR'S NO.: 10193884 OFFICE: 806-666-0770
30350 IH-10 WEST BOERNE, TX 75006
TBR'S NO.: 10194081 OFFICE: 817-501-5000
5023 BRINGTON, STE 17, MIDLAND, TX 79703
TBR'S NO.: 10194343 OFFICE: 806-666-0770

HARRIER TEMPORARY PIPELINE GROUND CONTAMINATION AREA LEA COUNTY, NM

SECTION 7, SECTION 18, T-26-S R-33-E, N.M.P.M.

LEGEND	
—	CONTAMINATION LIMITS
—	EDGE OF EASEMENT
—	EXISTING PIPELINE
-x-x-	FENCE
-o-o-	FIBER OPTIC
—	OVERHEAD POWERLINE
—	ROAD WAY
—	SURVEY LINE
—	SUBJECT TRACT
—	UNDERGROUND ELECTRIC
—	WATER LINE



BUREAU OF LAND MANAGEMENT
SECTION 7 T26S R33E

BUREAU OF LAND MANAGEMENT
SECTION 18 T26S R33E

SECTION 12, T26S, R32E, NMPM
SECTION 7, T26S, R33E, NMPM
SECTION 13, T26S, R32E, NMPM

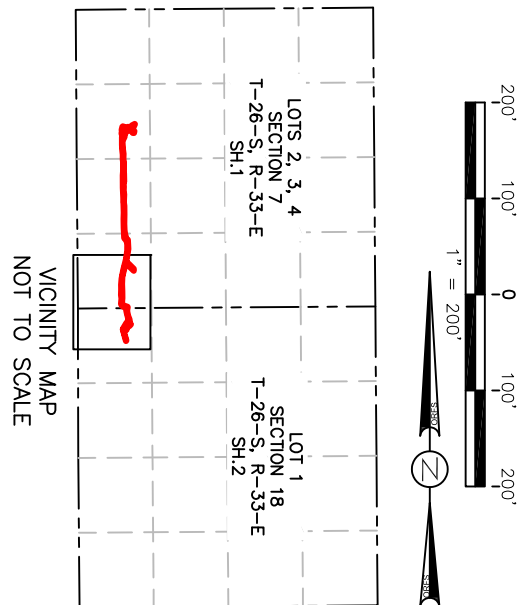
FND. MON. W/BRASS CAP
X:762405.76
Y:382943.74

FND. MON. W/BRASS CAP
X:762402.21
Y:382803.88

1. I, ANDREW MCLAUGHLIN, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23385, DO HEREBY CERTIFY THAT THIS CONTAMINATION AREA EXHIBIT AND THE ACTUAL SURVEY OF THE GROUND UPON WHICH THIS SURVEY WAS PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, THAT I AM A LICENSED SURVEYOR IN THE STATE OF NEW MEXICO AND THAT I AM A MEMBER IN GOOD STANDING OF THE SURVEYORS ASSOCIATION OF NEW MEXICO AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS EXHIBIT, IN NON-TRANSFERABLE AND MADE FOR THIS TRANSACTION ONLY.
2. THE INFORMATION HAS BEEN PROVIDED BY THE CLIENT, AS SUCH, OPEN RANGE FIELD SERVICES DOES NOT WARRANT OR GUARANTEE THAT ALL CONFLICTS, EASEMENTS OR ENCUMBRANCES ARE SHOWN. ADDITIONAL INFORMATION SHOWS OR DESCRIBED IS FOR INFORMATIONAL PURPOSES ONLY. BEARINGS, DISTANCES AND COORDINATES DESCRIBED HEREIN ARE GRID BASED UPON A TRANSVERSE MERCATOR PROJECTION AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM (NEW MEXICO EAST ZONE), OF THE NORTH AMERICAN DATUM OF 1983 (NAD83) IN U.S. SURVEY FEET.
3. FIELD NOTES AND RELATED INFORMATION IS FILED IN THE OFFICE OF THIS SURVEYOR AND FURTHER DESCRIBES THE RECONSTRUCTION OF THE RESPECTIVE BOUNDARY.
4. LOCATION OF THE GROUND CONTAMINATION AREA WAS MARKED IN THE FIELD BY CLIENT WHICH WAS SUBSEQUENTLY SURVEYED BY OPEN RANGE FIELD SERVICES, LLC (ORFS). ORFS TAKES NO RESPONSIBILITY FOR THE METHOD USED IN DETERMINING THE LIMITS OF THE DESCRIBED AREA.
5. UNLESS OTHERWISE NOTED, MONUMENTS WITH BRASS CAPS ARE STAMPED "USGLO" WITH SECTION CORNER OR QUARTER CORNER INFORMATION ALSO STAMPED ON CAP.

LINE	BEARING	DISTANCE
1	N 35°10.34' E	41.27'
2	N 66°33.43' E	83.20'
3	S 47°36.23' E	13.17'
4	S 47°46.05' E	69.29'
5	S 11°43.35' W	10.84'
6	S 79°40.38' E	23.81'
7	N 14°39.19' E	34.32'
8	N 50°31.02' W	42.06'
9	N 25°50.57' W	11.99'
10	N 14°56.28' W	22.44'
11	N 61°12.20' E	32.86'
12	N 25°56.24' E	53.20'
13	N 34°15.54' W	6.16'
14	S 61°07.42' W	59.61'
15	S 34°55.21' W	25.84'
16	S 47°43.54' W	35.19'
17	N 51°41.01' W	35.30'
18	S 64°46.06' W	83.47'
19	N 26°45.35' W	13.43'
20	N 31°01.10' E	9.54'
21	N 21°04.24' E	16.95'
22	N 60°03.56' W	20.83'
23	S 43°57.06' W	9.38'
24	S 16°35.38' W	58.81'
25	S 09°51.48' E	19.68'
26	S 05°26.38' E	18.17'
27	S 12°20.02' W	32.22'
28	S 25°01.13' E	33.43'
29	S 01°41.28' W	17.32'
30	S 31°19.54' W	11.83'
31	S 00°35.41' E	141.98'
32	S 04°11.51' E	93.35'
33	S 00°46.21' E	75.97'
34	S 00°24.02' E	87.56'
35	S 06°14.42' E	62.36'
36	S 00°12.39' E	105.22'
37	S 01°35.22' W	102.43'
38	S 09°12.40' W	46.19'
39	S 01°09.53' W	23.47'
40	S 02°05.49' E	155.78'
41	S 01°34.59' E	162.23'
42	S 01°43.16' E	160.14'
43	S 33°12.27' E	9.38'
44	S 01°11.56' E	43.83'
45	S 08°53.23' W	37.02'
46	S 00°35.53' E	143.82'
47	S 00°44.36' E	158.94'
48	S 02°58.59' E	180.86'
49	S 40°14.27' E	41.74'
50	S 28°48.23' E	43.01'
51	S 01°42.04' E	152.23'
52	S 07°48.10' W	147.65'
53	S 15°35.38' W	121.04'
54	S 10°55.04' W	74.94'
55	S 13°11.98' W	84.06'
56	S 07°58.09' W	95.68'
57	S 03°44.09' W	93.75'
58	S 00°56.18' W	50.38'
59	S 00°18.14' W	41.85'
60	S 02°16.40' W	83.99'
61	S 08°14.24' E	66.61'
62	S 05°40.41' W	92.16'
63	S 19°15.07' E	22.57'
64	S 41°00.32' E	34.17'
65	S 67°54.39' E	29.36'
66	S 78°53.53' E	24.81'
67	S 48°38.14' E	14.32'
68	S 00°55.35' E	46.08'
69	S 12°38.53' E	56.81'
70	S 15°12.21' E	98.83'
71	S 16°06.51' W	62.10'

LINE	BEARING	DISTANCE
72	S 62°22.18' W	22.34'
73	S 32°24.59' W	40.98'
74	S 31°49.18' W	48.37'
75	S 27°00.10' W	35.64'
76	S 15°37.42' E	152.26'
77	S 14°58.13' E	65.25'
78	N 47°43.48' E	6.29'
79	N 03°44.05' W	13.46'
80	N 14°05.44' W	49.19'
81	N 16°53.12' W	135.67'
82	N 02°37.31' E	19.17'
83	N 56°47.52' E	19.58'
84	S 52°10.49' E	49.80'
85	N 11°18.02' E	54.92'
86	N 70°09.09' E	41.54'
87	N 40°03.33' E	42.11'
88	N 75°13.00' W	11.94'
89	N 08°56.58' W	88.12'
90	N 19°57.24' W	68.65'
91	N 12°09.09' W	88.65'
92	N 10°11.03' E	60.32'
93	N 02°26.52' W	8.20'
94	N 68°31.20' W	53.18'
95	S 89°18.11' W	28.53'
96	N 51°41.56' W	20.56'
97	N 03°24.32' W	69.38'
98	N 06°58.20' E	57.06'
99	N 02°42.58' W	99.36'
100	N 06°43.28' E	45.73'
101	N 03°18.08' W	109.46'
102	N 00°29.21' W	79.17'
103	N 08°24.35' E	91.31'
104	N 14°44.40' E	89.12'
105	N 12°51.28' E	70.51'
106	N 87°52.02' E	54.60'
107	S 44°21.46' E	31.28'
108	S 45°12.01' E	109.43'
109	N 00°40.06' E	33.86'
110	N 44°46.56' W	117.57'
111	N 48°43.12' W	65.77'
112	N 07°51.33' E	48.05'
113	N 10°09.36' E	93.79'
114	N 08°01.45' E	85.12'
115	N 02°05.47' W	163.61'
116	S 44°41.30' W	18.65'
117	N 46°11.02' W	15.71'
118	N 13°36.52' W	82.38'
119	N 12°31.43' W	39.57'
120	N 39°28.33' W	8.37'
121	N 01°05.22' W	95.72'
122	N 01°24.00' W	157.83'
123	N 01°43.31' W	124.62'
124	N 12°20.50' E	50.61'
125	N 00°41.59' E	50.61'
126	N 09°08.00' W	81.27'
127	N 02°10.27' E	136.34'
128	N 06°24.01' W	75.20'
129	N 02°43.45' E	61.64'
130	N 04°17.02' W	71.83'
131	N 33°09.01' E	21.17'
132	N 00°27.42' W	143.37'
133	N 05°15.34' W	59.15'
134	N 00°15.35' E	146.73'
135	N 08°36.50' W	54.95'
136	N 01°34.38' E	90.42'
137	N 07°42.12' W	84.60'
138	N 03°07.39' W	149.74'
139	N 34°15.44' E	42.46'
140	N 24°30.21' E	41.31'
141	N 08°49.37' W	37.40'



W. ANDREW MCLAUGHLIN, NEW MEXICO P.S. NO. 23385
SURVEYED ON GROUND: OCTOBER 06, 2020
10/08/2020

OPEN RANGES
FIELD SERVICES, LLC.
1503 S. BARNESS BLVD., SUITE 200
30350 IH-10 WEST BOERNE, TX 75006
TRPS NO. 10193984 OFFICE: 906-666-0770
TRPS NO. 10194069 OFFICE: 936-813-5006
5023 BRINCEYTON, STE 17, MIDLAND, TX 79703
TRPS NO. 10194943 OFFICE: 806-666-0770



PROJECT NO. ORFS-300-53
AFE NO. P0_2466
DWG. NO. 300.53 HARrier TEMP SPILL SECT SECTION 8
SHT. 02 OF 03

HARRIER TEMPORARY PIPELINE
GROUND CONTAMINATION AREA
LEA COUNTY, NM
SECTION 7, SECTION 18,
T-26-S R-33-E, N.M.P.M.

DESCRIPTION OF 2.05 ACRES (89.327 SQUARE FEET), MORE OR LESS, BEING AN IRREGULAR SHAPED SURFACE SITE IDENTIFIED AS A GROUND CONTAMINATION AREA, SITUATED IN LEA COUNTY, NEW MEXICO, 1.71 ACRES BEING IN LOTS, 2, 3 AND 4 OF SECTION 7, AND 0.34 ACRES BEING IN LOT 1 OF SECTION 18, T-26-S, R-33-E, OF THE NEW MEXICO PRINCIPAL MERIDIAN (N.M.P.M.), IN THE NAME OF THE BUREAU OF LAND MANAGEMENT. SAID SURFACE SITE BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING (P.O.B., X: 763226.71, Y: 386019.13) at a point in Lot 2 of said Section 7, being an interior corner of the said Contamination Area from which a calculated corner for the southwest corner of Lot 2, bears South 62°37'09" West a distance of 948.75 feet, and from said calculated point the east Quarter corner of Section 12 of T-26-S, R-32-E bears South 00°22'09" East, a distance of 101.32 feet;

THENCE North 35°10'34" East a distance of 41.27 feet to a corner of said site;
THENCE North 46°33'43" East a distance of 83.20 feet to a corner of said site;
THENCE South 67°36'23" East a distance of 13.17 feet to a corner of said site;
THENCE South 47°46'05" East a distance of 69.29 feet to a corner of said site;
THENCE South 11°43'35" West a distance of 10.84 feet to a corner of said site;
THENCE South 79°40'38" East a distance of 23.81 feet to a corner of said site;
THENCE North 14°39'19" East a distance of 34.32 feet to a corner of said site;
THENCE North 50°31'02" West a distance of 42.06 feet to a corner of said site;
THENCE North 25°50'57" West a distance of 11.99 feet to a corner of said site;
THENCE North 14°56'28" West a distance of 22.44 feet to a corner of said site;
THENCE North 61°12'20" East a distance of 32.86 feet to a corner of said site;
THENCE North 25°56'24" East a distance of 53.20 feet to a corner of said site;
THENCE North 34°15'54" West a distance of 6.16 feet to a corner of said site;
THENCE South 61°07'42" West a distance of 25.84 feet to a corner of said site;
THENCE South 34°55'21" West a distance of 25.84 feet to a corner of said site;
THENCE South 47°43'54" West a distance of 35.19 feet to a corner of said site;
THENCE North 51°41'01" West a distance of 35.30 feet to a corner of said site;
THENCE South 64°46'06" West a distance of 83.47 feet to a corner of said site;
THENCE North 26°45'35" West a distance of 13.43 feet to a corner of said site;
THENCE North 31°01'10" East a distance of 9.54 feet to a corner of said site;
THENCE North 21°04'24" East a distance of 16.95 feet to a corner of said site;
THENCE North 60°03'36" West a distance of 20.83 feet to a corner of said site;
THENCE South 43°57'06" West a distance of 9.58 feet to a corner of said site;
THENCE South 16°35'38" West a distance of 58.81 feet to a corner of said site;
THENCE South 09°51'48" East a distance of 19.68 feet to a corner of said site;
THENCE South 05°26'38" East a distance of 18.17 feet to a corner of said site;
THENCE South 12°20'02" West a distance of 32.22 feet to a corner of said site;
THENCE South 25°01'13" East a distance of 33.43 feet to a corner of said site;
THENCE South 01°41'28" West a distance of 17.32 feet to a corner of said site;
THENCE South 31°19'54" West a distance of 11.83 feet to a corner of said site;
THENCE South 00°35'41" East a distance of 141.98 feet to a corner of said site;
THENCE South 04°11'51" East a distance of 93.35 feet to a corner of said site;
THENCE South 05°46'21" East a distance of 75.97 feet to a corner of said site;
THENCE South 00°24'02" East a distance of 87.56 feet to a corner of said site;
THENCE South 06°14'42" East a distance of 62.36 feet to a corner of said site;
THENCE South 00°12'39" East a distance of 105.22 feet to a corner of said site;
THENCE South 01°35'22" West a distance of 102.43 feet to a corner of said site;
THENCE South 09°12'40" West a distance of 46.19 feet to a corner of said site;
THENCE South 01°09'53" West a distance of 23.47 feet to a corner of said site;

THENCE South 02°05'49" East a distance of 155.78 feet to a corner of said site;
THENCE South 01°34'59" East a distance of 162.23 feet to a corner of said site;
THENCE South 01°43'16" East a distance of 160.14 feet to a corner of said site;
THENCE South 33°12'27" East a distance of 9.38 feet to a corner of said site;
THENCE South 01°11'56" East a distance of 43.83 feet to a corner of said site;
THENCE South 08°53'23" West a distance of 37.02 feet to a corner of said site;
THENCE South 00°35'53" East a distance of 143.82 feet to a corner of said site;
THENCE South 00°44'36" East a distance of 156.94 feet to a corner of said site;
THENCE South 02°58'59" East a distance of 180.86 feet to a corner of said site;
THENCE South 40°14'27" East a distance of 41.74 feet to a corner of said site;
THENCE South 28°48'23" East a distance of 43.01 feet to a corner of said site;
THENCE South 01°42'04" East a distance of 152.23 feet to a corner of said site;
THENCE South 07°48'10" West a distance of 147.65 feet to a corner of said site;
THENCE South 15°35'38" West a distance of 121.04 feet to a corner of said site;
THENCE South 13°11'58" West a distance of 84.06 feet to a corner of said site;
THENCE South 07°58'09" West a distance of 95.68 feet to a corner of said site;
THENCE South 00°56'18" West a distance of 50.38 feet to a corner of said site;
THENCE South 00°18'14" West a distance of 41.85 feet to a corner of said site;
THENCE South 02°16'40" West a distance of 83.99 feet to a corner of said site;
THENCE South 08°14'24" East a distance of 66.61 feet to a corner of said site;
THENCE South 05°40'41" West a distance of 92.16 feet to a corner of said site;
THENCE South 19°15'07" East a distance of 22.57 feet to a corner of said site;
THENCE South 41°00'32" East a distance of 34.17 feet to a corner of said site;
THENCE South 67°54'39" East a distance of 29.36 feet to a corner of said site;
THENCE South 78°53'53" East a distance of 24.81 feet to a corner of said site;
THENCE South 48°38'14" East a distance of 14.32 feet to a corner of said site;
THENCE South 00°55'35" East a distance of 46.08 feet to a corner of said site;
THENCE South 12°38'53" East a distance of 56.81 feet to a corner of said site;
THENCE South 15°12'21" East a distance of 98.83 feet to a corner of said site;
THENCE South 16°06'51" West a distance of 62.10 feet to a corner of said site;
THENCE South 62°22'18" West a distance of 22.34 feet to a corner of said site;
THENCE South 32°24'59" West a distance of 40.98 feet to a corner of said site;
THENCE South 31°49'18" West a distance of 48.37 feet to a corner of said site;
THENCE South 27°00'10" West a distance of 35.64 feet to a corner of said site;
THENCE South 15°37'42" East a distance of 152.26 feet to a corner of said site;
THENCE South 14°58'13" East a distance of 65.25 feet to a corner of said site;
THENCE South 44°41'30" West a distance of 18.65 feet to a corner of said site;

from which a monument w/brass cap found for the Northwest corner of Lot 1 of Section 18, bears North 55°54'52" West a distance of 1025.41 feet;

THENCE North 47°43'48" East a distance of 6.29 feet to a corner of said site;
THENCE North 03°44'05" West a distance of 13.46 feet to a corner of said site;
THENCE North 14°05'44" West a distance of 49.19 feet to a corner of said site;
THENCE North 16°53'12" West a distance of 135.67 feet to a corner of said site;
THENCE North 02°37'31" East a distance of 19.17 feet to a corner of said site;
THENCE South 56°47'52" East a distance of 19.58 feet to a corner of said site;
THENCE South 52°10'49" East a distance of 49.80 feet to a corner of said site;
THENCE North 11°18'02" East a distance of 54.92 feet to a corner of said site;
THENCE North 00°09'09" East a distance of 41.54 feet to a corner of said site;
THENCE North 40°03'33" East a distance of 42.11 feet to a corner of said site;
THENCE North 75°13'00" West a distance of 11.94 feet to a corner of said site;
THENCE North 08°56'58" West a distance of 88.12 feet to a corner of said site;
THENCE North 19°57'24" West a distance of 68.71 feet to a corner of said site;
THENCE North 12°09'09" West a distance of 88.65 feet to a corner of said site;
THENCE North 10°11'03" East a distance of 60.32 feet to a corner of said site;
THENCE North 02°26'52" West a distance of 53.18 feet to a corner of said site;
THENCE North 68°31'20" West a distance of 8.20 feet to a corner of said site;
THENCE North 02°26'52" West a distance of 8.20 feet to a corner of said site;
THENCE North 89°18'11" West a distance of 28.53 feet to a corner of said site;
THENCE North 51°41'56" West a distance of 20.56 feet to a corner of said site;
THENCE North 03°24'32" West a distance of 69.38 feet to a corner of said site;
THENCE North 06°58'20" East a distance of 57.06 feet to a corner of said site;
THENCE North 02°42'58" West a distance of 99.36 feet to a corner of said site;
THENCE North 08°43'28" East a distance of 45.73 feet to a corner of said site;
THENCE North 03°18'08" West a distance of 107.46 feet to a corner of said site;
THENCE North 00°28'92" West a distance of 31.26 feet to a corner of said site;
THENCE North 12°51'28" East a distance of 70.51 feet to a corner of said site;
THENCE North 14°44'40" East a distance of 89.12 feet to a corner of said site;
THENCE North 87°52'02" East a distance of 54.60 feet to a corner of said site;
THENCE South 44°21'46" East a distance of 31.26 feet to a corner of said site;
THENCE South 45°12'01" East a distance of 109.43 feet to a corner of said site;
THENCE North 00°40'06" East a distance of 33.86 feet to a corner of said site;
THENCE North 44°46'56" West a distance of 117.57 feet to a corner of said site;
THENCE North 48°43'12" West a distance of 65.77 feet to a corner of said site;
THENCE North 07°51'33" East a distance of 48.05 feet to a corner of said site;
THENCE North 10°09'36" East a distance of 93.79 feet to a corner of said site;
THENCE North 08°01'45" East a distance of 85.12 feet to a corner of said site;
THENCE North 02°05'47" West a distance of 163.61 feet to a corner of said site;
THENCE South 44°41'30" West a distance of 18.65 feet to a corner of said site;

THENCE North 46°11'102" West a distance of 15.71 feet to a corner of said site;
THENCE North 13°36'52" West a distance of 82.38 feet to a corner of said site;
THENCE North 12°31'43" West a distance of 39.57 feet to a corner of said site;
THENCE North 39°28'33" West a distance of 8.37 feet to a corner of said site;
THENCE North 01°05'22" West a distance of 95.72 feet to a corner of said site;
THENCE North 01°24'00" West a distance of 157.83 feet to a corner of said site;
THENCE North 01°43'31" West a distance of 124.62 feet to a corner of said site;
THENCE North 12°20'50" East a distance of 31.82 feet to a corner of said site;
THENCE North 00°41'59" East a distance of 50.61 feet to a corner of said site;
THENCE North 09°08'00" West a distance of 81.27 feet to a corner of said site;
THENCE North 02°10'27" East a distance of 136.34 feet to a corner of said site;
THENCE North 06°24'01" West a distance of 75.20 feet to a corner of said site;
THENCE North 02°43'45" East a distance of 61.64 feet to a corner of said site;
THENCE North 04°17'02" West a distance of 71.83 feet to a corner of said site;
THENCE North 33°09'01" East a distance of 21.17 feet to a corner of said site;
THENCE North 00°27'42" West a distance of 143.37 feet to a corner of said site;
THENCE North 05°15'34" West a distance of 59.15 feet to a corner of said site;
THENCE North 00°36'50" West a distance of 54.95 feet to a corner of said site;
THENCE North 01°34'38" East a distance of 90.42 feet to a corner of said site;
THENCE North 07°42'12" West a distance of 84.60 feet to a corner of said site;
THENCE North 03°07'39" West a distance of 149.74 feet to a corner of said site;
THENCE North 34°15'44" East a distance of 42.46 feet to a corner of said site;
THENCE North 24°30'21" East a distance of 41.31 feet to a corner of said site;

Containing: 2.05 acres (89.327 square feet) of land, more or less.

*PRELIMINARY, THIS DOCUMENT SHALL NOT BE
RECORDED FOR ANY PURPOSE AND SHALL NOT BE
USED OR VIEWED OR RELIED UPON AS A FINAL
SURVEY DOCUMENT.*

W. ANDREW MCLAUGHLIN, NEW MEXICO P.S. NO. 23385
SURVEYED ON GROUND, OCTOBER 06, 2020

10/08/2020

- 1. I, ANDREW MCLAUGHLIN, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23385, DO HEREBY CERTIFY THAT THIS EASEMENT EXHIBIT AND THE ACTUAL SURVEY OF THE GROUND UPON WHICH THIS EASEMENT WAS PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, THAT I AM A LICENSED SURVEYOR IN THE STATE OF NEW MEXICO, AND THAT I HAVE READ AND UNDERSTAND THE CONTENTS OF THIS EASEMENT AND BELIEVE THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DENIED IN THE NEW MEXICO SUBDIVISION ACT. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS EXHIBIT, IN NON-TRANSFERABLE AND MADE FOR THIS TRANSACTION ONLY.
- 2. THE INFORMATION HAS BEEN PROVIDED BY THE CLIENT, AS SUCH, OPEN RANGE FIELD SERVICES DOES NOT WARRANT OR GUARANTEE THAT ALL CONFLICTS, EASEMENTS OR ENCUMBRANCES ARE SHOWN. ADDONER INFORMATION SHOWN OR DESCRIBED IS FOR INFORMATIONAL PURPOSES ONLY. BEARINGS, DISTANCES AND COORDINATES DESCRIBED HEREIN ARE GRID BASED UPON A TRANSVERSE MERCATOR PROJECTION AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM (NEW MEXICO EAST ZONE 7), OF THE NORTH AMERICAN DATUM OF 1983 (NAD83) IN U.S. SURVEY FEET.
- 3. FIELD NOTES AND RELATED INFORMATION IS FILED IN THE OFFICE OF THIS SURVEYOR AND FURTHER DESCRIBES THE RECONSTRUCTION OF THE RESPECTIVE BOUNDARY.
- 4. LOCATION OF THE GROUND CONTAMINATION AREA WAS MARKED IN THE FIELD BY CLIENT WHICH WAS SUBSEQUENTLY SURVEYED BY OPEN RANGE FIELD SERVICES, LLC (ORFS). ORFS TAKES NO RESPONSIBILITY FOR THE METHOD USED IN DETERMINING THE LIMITS OF THE DESCRIBED AREA.
- 5. UNLESS OTHERWISE NOTED, MONUMENTS WITH BRASS CAPS ARE STAMPED "USGLD" WITH SECTION CORNER OR QUARTER CORNER INFORMATION ALSO STAMPED ON CAP.

Table with 3 columns: PIPELINE, STATION, OR ACCOUNT NUMBER; HARRIER TEMPORARY PIPELINE SPILL; SCALE 1"=200'

Table with 4 columns: FILE NUMBER, CADD FILENAME, REV. NO., DESCRIPTION; 300_53_HARRIER_TEMPORARY_PIPELINE_SPILL_BASE_KAS; BY, DATE, APP.

Table with 3 columns: CONST. YR., DATE, DRAWN; N/A, 10/08/20, KAS

Oilfield Water Logistics logo and contact information for R. OPEN RANGES FIELD SERVICES, LLC.

Table with 2 columns: PROJECT NO., DWG. NO.; ORFS-300-53, PO_2466; SHT. 03 OF 03

APPENDIX I – PROPOSED REMEDIATION PLAN



December 31, 2020

Mr. Phillip Sanders
Oilfield Water Logistics SWD Operating, LLC
8201 Preston Road, Suite 520
Dallas, Texas 75225

RE: Proposed Remediation Plan for the Harrier Surface Line Produced Water Release, Unit Letter L2, L3, L4, Section 7, Unit Letter L1, Section 18, T26S, R33E, Lea County, New Mexico – Incident Number NRM2028334152

Dear Mr. Sanders:

KJ Environmental Management, Inc. (KJE) is pleased to submit the following proposal to Oilfield Water Logistics SWD Operating, LLC (OWL) to provide environmental consulting services for the Harrier Surface line produced water release in Lea County, New Mexico.

Scope of Services

Proposed Remediation

The proposed scope of work will consist of performing “dig and haul” remediation activities to address regulations set forth in the New Mexico Administrative Code (NMAC) 19.15.29 issued on August 8, 2018. Pursuant to NMAC 19.15.29, KJE is providing this proposed remediation plan for review and approval by the New Mexico Oil Conservation Division (OCD) and the New Mexico Bureau of Land Management (BLM) prior to the commencement of field activities.

The remediation activities will consist of the following:

- Submit a New Mexico 811 Dig Ticket to allow an independent utility contractor to locate and mark underground utilities in the vicinity of the proposed soil boring locations.
- Coordinate with a subcontractor to excavate approximately 2,200 cubic yards (yds³) of impacted soil along the pipeline right-of-way, adjacent fields, and/or roadways to a total depth of four (4) feet below ground surface (bgs). The excavated soil will be properly loaded and transported to the North Delaware Basin landfill in Jal, New Mexico, for proper disposal. Following the excavation and transportation of impacted soil to the approved landfill, approximately 2,200 yds³ of clean, imported fill material will be used to backfill the excavations. It should be noted, KJE proposes to excavate in a 20' x 20' x 4' grid pattern around each soil boring that exceeded the most stringent NMAC closure criteria of 600 mg/kg for chlorides. The proposed “dig and haul” method includes soil borings SS-03, SS-06, SS-10, SS-12, SS-14, SS-16, SS-18, SS-20, SS-22, SS-24, SS-28, SS-34, SS-36, SS-40, SS-43, SS-45, SS-47, SS-49, SS-51, SS-54, SS-56, SS-58, SS-59, SS-60, SS-63, and SS-64.

Oilfield Water Logistics SWD Operating, LLC
Incident Tracking No. NRM2028334152
December 31, 2020
Page 2



The GPS coordinates detailing each excavation perimeter is included as an attachment. Additionally, a copy of the proposed remediation map is included as an attachment.

- KJE personnel will provide excavation oversight to ensure the safety of all personnel and to adhere to applicable NMAC regulations, the approved minimum setbacks set forth by Mesquite and Enterprise and confirm the approved remediation plan is properly implemented.
- KJE personnel estimate a total of 104 confirmation soil samples will be collected to confirm/deny the effectiveness of remediation activities. KJE will collect one (1) soil sample from each excavation wall (north, south, east, west). If the wall sample exceeds the NMAC closure criteria of 600 mg/kg for chlorides, additional soil will be excavated, loaded, and transported as well as additional soil samples will be collected and analyzed. The total amount of soil samples and total volume of excavated soil will be included in the closure report.
- The soil samples will be submitted to Xenco Laboratories (a third-party, independent, and licensed environmental laboratory in Carlsbad, New Mexico) accompanied by completed chain-of-custody to determine the presence/absence of hydrocarbons. The soil samples will be collected in one (1) 4-ounce soil jar and will be analyzed for chlorides via Method 300.
- The sample results will be tabulated to determine the effectiveness of remediation activities. Once chloride concentrations are detected below the NMAC closure criteria of 600 mg/kg, KJE will submit a full closure report detailing field activities, laboratory analytical reports, and official request for site closure.
- KJE anticipates the remediation timeline from implementation to submittal of closure report, once approved by the OCD and BLM, will occur between 60 and 90 calendar days.

Decontamination

- Field sampling personnel will wear and frequently change disposable nitrile gloves and, to the degree practical, samples will be collected with single-use disposable equipment and materials. Sample and non-dedicated tools will be cleaned by scrubbing in a non-phosphate detergent solution, followed by a double tap water rinse, and final de-ionized water rinse.

Site Restoration

- Upon completion of remediation activities, the site will be restored, reclaimed and revegetated pursuant to NMAC 19.15.29.13.

Oilfield Water Logistics SWD Operating, LLC
Incident Tracking No. NRM2028334152
December 31, 2020
Page 3



Report of Findings

KJE will prepare and provide an electronic copy of the final remediation and closure report describing the findings and conclusions of the site. The remediation and closure report will be submitted to the OCD Electronic Permitting and Payment online portal and to the BLM via electronic copy for review and approval.

Sampling activities are expected to be completed within one (1) to two (2) weeks after the impacted soil has been loaded and transported to the approved landfill. Analytical results will be requested on a standard turnaround time of five (5) to seven (7) business days. However, it should be noted, potential project delays (laboratory turnaround time, shipping issues, pick up/drop off at the laboratory, etc.) exist with the current COVID-19 pandemic and are considered outside of KJE's control. While delays are not anticipated for the duration of the project, KJE will notify the client, OCD, and BLM in writing if delays are encountered.

Thank you for the opportunity to provide professional environmental remediation services to your company. Should you have any questions regarding this remediation plan please do not hesitate to contact us at your first convenience.

Regards,

Handwritten signature of Travis Reddick in blue ink.

Travis Reddick
Environmental Associate

Handwritten signature of William B. Soderstrom in blue ink.

William B. Soderstrom
Director of Environmental Services

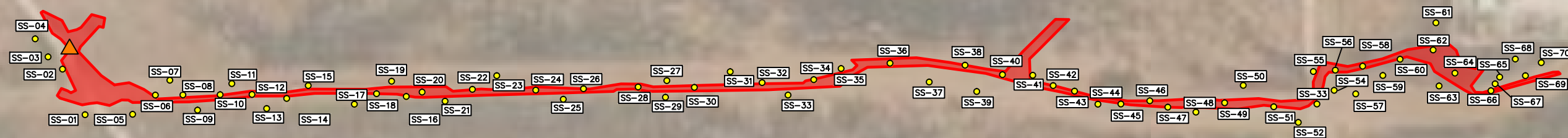
Handwritten signature of Kevin Ware in blue ink.

Kevin Ware, P.E., QEP, REM
Principal

Attachments:

Figure 2 – Proposed Remediation Map

Table 3 – Proposed Remediation GPS Coordinates



EXCAVATION COORDINATES			
SOIL SAMPLE	CORNER	LATITUDE	LONGITUDE
SS-03	NE	32.0597	-103.6168
	SE	32.0596	-103.6168
	SW	32.0596	-103.6169
	NW	32.0597	-103.6169
SS-06	NE	32.0590	-103.6171
	SE	32.0589	-103.6171
	SW	32.0589	-103.6172
SS-10	NE	32.0585	-103.6171
	SE	32.0584	-103.6171
	SW	32.0584	-103.6172
	NW	32.0585	-103.6172
SS-12	NE	32.0583	-103.6171
	SE	32.0582	-103.6171
	SW	32.0582	-103.6172
SS-14	NE	32.0581	-103.6172
	SE	32.0580	-103.6172
	SW	32.0580	-103.6173
	NW	32.0581	-103.6173
SS-16	NE	32.0572	-103.6172
	SE	32.0571	-103.6172
	SW	32.0571	-103.6173
SS-18	NE	32.0574	-103.6171
	SE	32.0573	-103.6171
	SW	32.0573	-103.6172
	NW	32.0574	-103.6172

SS-20	NE	32.0571	-103.6171
	SE	32.0570	-103.6171
	SW	32.0570	-103.6172
	NW	32.0571	-103.6172
SS-22	NE	32.0568	-103.6171
	SE	32.0567	-103.6171
	SW	32.0567	-103.6172
SS-24	NE	32.0563	-103.6171
	SE	32.0562	-103.6171
	SW	32.0562	-103.6172
	NW	32.0563	-103.6172
SS-28	NE	32.0556	-103.6171
	SE	32.0555	-103.6171
	SW	32.0555	-103.6172
SS-34	NE	32.0544	-103.6170
	SE	32.0543	-103.6170
	SW	32.0543	-103.6171
	NW	32.0544	-103.6171
SS-36	NE	32.0539	-103.6169
	SE	32.0538	-103.6169
	SW	32.0538	-103.6170
	NW	32.0539	-103.6170
SS-40	NE	32.0531	-103.6170
	SE	32.0530	-103.6170
	SW	32.0530	-103.6171
	NW	32.0531	-103.6171

SS-43	NE	32.0526	-103.6172
	SE	32.0525	-103.6172
	SW	32.0525	-103.6173
	NW	32.0526	-103.6173
SS-45	NE	32.0523	-103.6173
	SE	32.0522	-103.6173
	SW	32.0522	-103.6174
	NW	32.0523	-103.6174
SS-47	NE	32.0519	-103.6173
	SE	32.0518	-103.6173
	SW	32.0518	-103.6174
	NW	32.0519	-103.6174
SS-49	NE	32.0515	-103.6173
	SE	32.0514	-103.6173
	SW	32.0514	-103.6174
	NW	32.0515	-103.6174
SS-51	NE	32.0512	-103.6173
	SE	32.0511	-103.6173
	SW	32.0511	-103.6174
	NW	32.0512	-103.6174
SS-54	NE	32.0508	-103.6172
	SE	32.0507	-103.6172
	SW	32.0507	-103.6173
	NW	32.0508	-103.6173
SS-56	NE	32.0508	-103.6170
	SE	32.0507	-103.6170
	SW	32.0507	-103.6180
	NW	32.0508	-103.6180

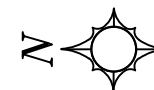
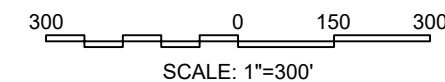
SS-58	NE	32.0506	-103.6170
	SE	32.0505	-103.6170
	SW	32.0505	-103.6171
	NW	32.0506	-103.6171
SS-59	NE	32.0504	-103.6170
	SE	32.0503	-103.6170
	SW	32.0503	-103.6171
	NW	32.0504	-103.6171
SS-60	NE	32.0503	-103.6169
	SE	32.0502	-103.6169
	SW	32.0502	-103.6170
	NW	32.0503	-103.6170
SS-63	NE	32.0501	-103.6171
	SE	32.0500	-103.6171
	SW	32.0500	-103.6172
	NW	32.0501	-103.6172
SS-64	NE	32.0499	-103.6170
	SE	32.0498	-103.6170
	SW	32.0498	-103.6171
	NW	32.0499	-103.6171

LEGEND

- RELEASE POINT EXCAVATION AREA (20'X20'X4')
- OIL PIPELINE APPROXIMATE SPILL AREA

NOTES:

- GOOGLE EARTH WAS USED AS AN UNDERLAY IMAGE FOR THIS MAP. (<http://earth.google.com/>)



DATE:12/31/2020
 VERSION: 1.0
 THIS DRAWING IS FOR INFORMATION PURPOSES ONLY

REVISIONS:

FIGURE:

2



PROPOSED REMEDIATION MAP
 OILFIELD WATER LOGISTICS (OWL) SWD OPERATING, LLC
 HARRIER BOOSTER SURFACE LINE
 LEA COUNTY, NEW MEXICO

500 Moseley Road
 Cross Roads, Texas 76227
 Phone (940) 387-0805
 www.kje-us.com
 (TBPE # F-12214)



Table 3: Proposed Remediation GPS Coordinates Barrier Surface Line 32.059697, -103.616531 Jal, Lea County, New Mexico Incident Tracking No. NRM2028334152							
Location	Description	Latitude	Longitude	Location	Description	Latitude	Longitude
SS-03	NE	32.0597	-103.6168	SS-40	NE	32.0531	-103.617
	SE	32.0596	-103.6168		SE	32.053	-103.617
	SW	32.0596	-103.6169		SW	32.053	-103.6171
	NW	32.0597	-103.6169		NW	32.0531	-103.6171
SS-06	NE	32.059	-103.6171	SS-43	NE	32.0526	-103.6172
	SE	32.0589	-103.6171		SE	32.0525	-103.6172
	SW	32.0589	-103.6172		SW	32.0525	-103.6173
	NW	32.059	-103.6172		NW	32.0526	-103.6173
SS-10	NE	32.0585	-103.6171	SS-45	NE	32.0523	-103.6173
	SE	32.0584	-103.6171		SE	32.0522	-103.6173
	SW	32.0584	-103.6172		SW	32.0522	-103.6174
	NW	32.0585	-103.6172		NW	32.0523	-103.6174
SS-12	NE	32.0583	-103.6171	SS-47	NE	32.0519	-103.6173
	SE	32.0582	-103.6171		SE	32.0518	-103.6173
	SW	32.0582	-103.6172		SW	32.0518	-103.6174
	NW	32.0583	-103.6172		NW	32.0519	-103.6174
SS-14	NE	32.0581	-103.6172	SS-49	NE	32.0515	-103.6173
	SE	32.058	-103.6172		SE	32.0514	-103.6173
	SW	32.058	-103.6173		SW	32.0514	-103.6174
	NW	32.0581	-103.6173		NW	32.0515	-103.6174
SS-16	NE	32.0572	-103.6172	SS-51	NE	32.0512	-103.6173
	SE	32.0571	-103.6172		SE	32.0511	-103.6173
	SW	32.0571	-103.6173		SW	32.0511	-103.6174
	NW	32.0572	-103.6173		NW	32.0512	-103.6174
SS-18	NE	32.0574	-103.6171	SS-54	NE	32.0508	-103.6172
	SE	32.0573	-103.6171		SE	32.0507	-103.6172
	SW	32.0573	-103.6172		SW	32.0507	-103.6173
	NW	32.0574	-103.6172		NW	32.0508	-103.6173
SS-20	NE	32.0571	-103.6171	SS-56	NE	32.0508	-103.617
	SE	32.057	-103.6171		SE	32.0507	-103.617
	SW	32.057	-103.6172		SW	32.0507	-103.618
	NW	32.0571	-103.6172		NW	32.0508	-103.618
SS-22	NE	32.0568	-103.6171	SS-58	NE	32.0506	-103.617
	SE	32.0567	-103.6171		SE	32.0505	-103.617
	SW	32.0567	-103.6172		SW	32.0505	-103.6171
	NW	32.0568	-103.6172		NW	32.0506	-103.6171
SS-24	NE	32.0563	-103.6171	SS-59	NE	32.0504	-103.617
	SE	32.0562	-103.6171		SE	32.0503	-103.617
	SW	32.0562	-103.6172		SW	32.0503	-103.6171
	NW	32.0563	-103.6172		NW	32.0504	-103.6171
SS-28	NE	32.0556	-103.6171	SS-60	NE	32.0503	-103.6169
	SE	32.0555	-103.6171		SE	32.0502	-103.6169
	SW	32.0555	-103.6172		SW	32.0502	-103.617
	NW	32.0556	-103.6172		NW	32.0503	-103.617
SS-34	NE	32.0544	-103.617	SS-63	NE	32.0501	-103.6171
	SE	32.0543	-103.617		SE	32.05	-103.6171
	SW	32.0543	-103.6171		SW	32.05	-103.6172
	NW	32.0544	-103.6171		NW	32.0501	-103.6172
SS-36	NE	32.0539	-103.6169	SS-64	NE	32.0499	-103.617
	SE	32.0538	-103.6169		SE	32.0498	-103.617
	SW	32.0538	-103.617		SW	32.0498	-103.6171
	NW	32.0539	-103.617		NW	32.0499	-103.6171

APPENDIX J – ENVIRONMENTAL PROFESSIONAL’S CREDENTIALS

William B. Soderstrom

500 Moseley Road
Cross Roads, Texas 76227
(405) 258-8623
wsoderstrom@kje-us.com

WORK EXPERIENCE

Environmental Services Manager –Environmental Department 07/2018 – Present
KJ Environmental Management, Inc. – Denton, TX

- Managed and reviewed Phase I Environmental Site Assessments (ESAs) and Limited Phase II ESAs for active and historical service stations, dry cleaners, commercial and retail properties, and vacant or undeveloped land throughout New Mexico, Oklahoma and Texas utilizing hand auger equipment, truck-mounted hollow-stem augers (HSA), and direct-push technologies (Geoprobe).
- Provided professional environmental consulting services to individual businesses, real estate developers (commercial, industrial, and multi-family residential), financial institutions, manufacturing facilities and corporate representatives to ensure compliance with the United States Environmental Protection Agency (USEPA), Oklahoma Corporation Commission (OCC), Oklahoma Department of Environmental Quality (ODEQ) and Texas Commission on Environmental Quality (TCEQ) rules and regulations.
- Supervised and coordinated the remediation of various produced water releases ranging from 95 barrels to 12,000 barrels in conjunction with state regulatory agencies including the Railroad Commission of Texas, TCEQ Emergency Response, New Mexico Oil Conservation Division, New Mexico Bureau of Land Management, New Mexico State Land Office, and the United States Army Corps of Engineers.
- Enrolled and managed chemical manufacturing and industrial facilities into the TCEQ Voluntary Cleanup Program (VCP), Corrective Action (CA) and Municipal Setting Designation (MSD) regulatory programs throughout north Texas.
- Managed the characterization and remediation of exploration and production (E&P) exempt waste for multiple oil and gas companies in south and west Texas.

Assistant Project Manager –Remediation Division 07/2015 – 07/2018
The VERTEX Companies, Inc. – Irving, TX

- Conducted Phase I ESAs and Limited Phase II ESAs for active and historical service stations, dry cleaners, commercial and retail properties, and vacant or undeveloped land throughout Alabama, Arizona, Arkansas, California, Georgia, Kansas, Louisiana, Mississippi, Missouri, New Mexico, Oklahoma, Oregon, Tennessee, and Texas utilizing hand auger equipment, truck-mounted HSAs, and direct push technologies (Geoprobe).
- Performed a Phase II ESA at an active bulk petroleum storage facility in Alabama to delineate impacted soils for a potential real estate transaction.
- Provided consulting services to individual businesses, real estate developers (commercial, industrial, and multi-family residential), financial institutions, and corporate representatives to ensure compliance with Alabama Department of Environmental Management (ADEM), Arkansas Department of Environmental Quality (ADEQ), Kansas Department of Health and Environment (KDHE), Missouri Department of Natural Resources (MDNR), OCC, ODEQ, Oregon Department of Environmental Quality (Oregon DEQ), and TCEQ rules and regulations.
- Screened impacted soils within Operable Unit 1 (OU-1) and coordinated the characterization, transportation, and disposal of approximately 7,500 cubic yards of soil to approved Class I and Class II landfill.
- Provided technical support for the VCP, MSD, and TCEQ Subchapter T: Use of Land Over Closed Municipal Solid Waste (MSW) Landfills throughout the Dallas-Fort Worth Metroplex.
- Installed and sampled soil vapor probes to adhere to TCEQ Subchapter T reporting limits for MSW Landfills in Dallas.
- Operated as team leader for the removal, disposal, characterization, and transportation of ghost storage tanks, aboveground storage tanks (ASTs), underground storage tanks (USTs) and stockpiled backfill at former and current gas stations, tank batteries, and manufacturing facilities throughout the Dallas-Fort Worth Metroplex and Oklahoma.
- Provided construction oversight for the installation and verification of a low-profile ventilation system and vapor mitigation system at various multi-family complexes for sub-grade areas and first floor living spaces.

Staff Scientist – Real Estate Division 09/2013 – 07/2015
W&M Environmental Group, LLC – Plano, TX

- Conducted Phase I ESAs and Limited Phase II Investigations for active and historical manufacturing facilities, active and historical service stations, commercial and retail properties, dry cleaners, and vacant or undeveloped land throughout Texas utilizing hand auger equipment, truck-mounted HSA, and direct push technologies (Geoprobe).
- Provided consulting services to real estate developers (commercial and multi-family residential), financial institutions, and corporate representatives to ensure compliance with the ODEQ, OCC, and TCEQ.
- Provided technical support for MSD, VCP, Affected Property Assessment Report (APAR), and Innocent Owner/Operator Program (IOP) applications for a former service station and auto repair shop.
- Provided emergency response to multiple pipeline and tank battery spills in Texas and Oklahoma and collected confirmation soil samples to delineate vertical and horizontal extent.

- Acted as field team leader for the removal, disposal, and transportation of underground storage tanks at various sites throughout the Dallas-Fort Worth Metroplex.
- Acted as field team leader for the collection of pond sediment samples to delineate heavy metals and polychlorinated biphenyls (PCBs) at a former Naval Air Station.
- Installed and sampled soil vapor probes at historical dry cleaners, leaking petroleum storage tank sites, auto body repair shops and commercial properties throughout Texas.
- Performed Stormwater Pollution Prevention Plan (SWPPP) site reconnaissance for various manufacturing facilities in the Dallas-Fort Worth Metroplex.

**Staff Environmental Scientist –Environmental Department
Terracon Consultants, Inc – Oklahoma City, OK**

06/2010 – 09/2013

- Conducted Limited Phase II Environmental Site Assessments for active manufacturing facilities, historical dry cleaners, service stations, and vacant or undeveloped land throughout Oklahoma utilizing hand auger equipment, air-rotary drilling, and truck-mounted HSA.
- Provided emergency response to brine water spill and screened approximately 2,000 cubic yards of soil for off-site disposal.
- Provided consulting services to real estate developers, financial institutions, and corporate representatives to ensure compliance with the ODEQ and OCC.
- Acted as field team leader for screening impacted soils and coordinating the management, transportation, and disposal of approximately 28,000 cubic yards of impacted soil to land-farm for treatment.
- Served as field team professional on the investigation and plume delineation of two dry-cleaner sites within the ODEQ VCP and Brownfields program.
- Provided support for state environmental regulatory activities regarding Concentrated Animal Feeding Operation (CAFO) permits of numerous swine facilities in Oklahoma and Texas.
- Completed due diligence services for Oklahoma based oil/gas company to assess the potential impact to threatened or endangered species, wetlands, and potential locations of archeological or cultural significance throughout Oklahoma.

EDUCATIONAL BACKGROUND

Bachelor of Science, Environmental Sciences

May 2010

Option: Natural Resources

Minor: Soil Science

Oklahoma State University, Stillwater, OK

Curriculum Vitae

Kevin J. Ware

PE

500 Moseley Road
Crossroads, TX
76227
O 940-387-0805
C 469-487-6083

<p>Education</p>	<p>M.S., Environmental Engineering (2003) Oklahoma State University, Stillwater, Oklahoma</p> <p>B.S., Environmental Science (1999) College of Civil Engineering University of Oklahoma, Norman, Oklahoma</p>
<p>Current Position</p>	<p>Principal KJE, Inc.</p>
<p>Experience</p>	<p>KJE, Inc. (2005-Present) Principal Denton, Texas</p> <ul style="list-style-type: none"> • Managing team of licensed engineers involved in design and permitting of Texas RRC pit permits, SWD injection permits, waste separation permits, land treatment permits, disposal cell permits, and drilling permits • Managing due diligence work for oil/gas field acquisitions • Managing/reviewing engineering design of SWD surface facilities • Reviewing and managing air permitting activities related to oil/gas field activities (production, completion, SWD, midstream, refining) • Completing civil engineering design of oil/gas pad sites, TXDOT driveway applications, and facility design • Performing environmental/compliance audits for numerous industrial, oil/gas, and commercial clients • Managing remediation sites (lead contamination, groundwater contamination, etc...) • Expert Witness Testimony – Environmental Management and Remediation Expert • Wetlands Determinations and Floodplain Delineation/Hydraulic Studies

GaiaTech, Inc. (2005)

Irving, Texas

Senior Environmental Consultant

- Performed environmental compliance, safety and engineering audits for various large scale industrial/commercial clients (air, water, hazardous waste, safety, etc.).
- Completed Due Diligence Reports (Phase I, Phase II, etc...) for large industrial sites
- Designed waste minimization systems (wastewater recycling project)

Isbell Engineering Group, Inc. (2003-2005)

Sanger, Texas

Environmental Engineering Manager

- Completed environmental compliance and safety audits for industrial clients
- Reviewed engineering designs for subdivisions.
- Reviewed oil/gas drilling permit application for cities
- Completed engineering design on commercial developments
- Performed Phase I Site Assessments
- Directed environmental investigations for waste dump sites.
- Assisted in the review of City Engineering plans for small municipalities

Science Applications International (SAIC) (2003)

Midwest City, Oklahoma

Environmental Engineer

- Created a Site Health & Safety Plan for Air Force Groundwater Remediation Project
- Field safety manager for groundwater monitoring project

Marshall Environmental Management, Inc.(1999-2003)

Oklahoma City, Oklahoma

Environ. Specialist/Industrial Hygienist

- Completed Phase I Site Assessment reports for various types of development
- Managed remediation projects for oil refinery site
- Managed remediation project for abandoned tire manufacturing plant
- Managed remediation of oil/gas site cleanup
- Performed Asbestos Surveys and Air Monitoring of Abatement Projects

Certifications & Licenses	Licensed Professional Engineer (TX) License #136599 Qualified Environmental Professional (QEP) (Accredited through the Institute of Professional Environmental Practice) Registered Environmental Manager (National Registry of Environmental Professionals)
Additional Experience	Recognized and Admitted as Expert Witness in Texas RRC Environmental Permitting Hearings (Oil and Gas Docket No. 02-0300234)
	Instructor - Certified Environmental Auditor Classes National Registry of Environmental Professionals License
	RRC Environmental Task Force Member (Advisory Committee to RRC Commissioners on Recommended Environmental Rule Changes / Updates)

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 13776

CONDITIONS OF APPROVAL

Operator: OWL SWD OPERATING, LLC Suite 520 Dallas, TX75225	8201 Preston Road	OGRID: 308339	Action Number: 13776	Action Type: C-141
---	-------------------	------------------	-------------------------	-----------------------

OCD Reviewer	Condition
chensley	The following conditions need to be addressed for closure:
chensley	1) When nearby wells are used to determine depth to groundwater, the wells should be no further than 1/2 mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a 1/2 mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.
chensley	2) If rock refusal interferes with the remediation process, use a back-hoe/track-hoe to remove the rock.
chensley	3) If the rock is immovable and target depth cannot be reached, use a hydrovac to clean the contaminated soil off of the rock surface and outline specific locations and steps taken on the Closure Report.
chensley	4) Use a rotary drill to drill a 18"-24" hole into the rock, pull sample to ensure contaminants haven't permeated deep through the rock surface.
chensley	5) layer the cleaned rock with Micro-Blaze or liquid with microbial strains, surfactants and nutrients designed to digest organics and hydrocarbons.
chensley	6) Back-fill with clean material