

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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM2028239353
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD)
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.10220 Longitude -103.77640
(NAD 83 in decimal degrees to 5 decimal places)

Site Name PLU 28 BS 907H	Site Type Well Pad
Date Release Discovered 9/23/2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
H	28	25S	31E	Eddy

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 type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 10	Volume Recovered (bbls) 9
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input 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 During frac operations, a valve was left in the open position which caused fluid to fill containment and overflow onto pad surface. A third party contractor has been retained for remediation activities.

Form C-141

State of New Mexico
Oil Conservation Division


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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

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: N/A	
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>Kyle Littrell</u> Signature:  email: <u>Kyle.Littrell@xtoenergy.com</u>	Title: <u>SH&E Supervisor</u> Date: <u>10-7-20</u> Telephone: <u>432-221-7331</u>
OCD Only Received by: <u>Ramona Marcus</u> Date: <u>10/8/2020</u>	

NRM2028239353

Location:	PLU 28 BS 907H	
Spill Date:	9/23/2020	
Area 1		
Approximate Area =	2241.00	sq. ft.
Average Saturation (or depth) of spill =	1.00	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Produced Water =	10.00	bbls

TOTAL VOLUME OF LEAK		
Total Produced Water =	10.00	bbls
TOTAL VOLUME RECOVERED		
Total Produced Water =	9.00	bbls

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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?	<u>>100</u> (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 type="checkbox"/> Yes <input checked="" 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

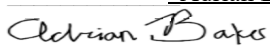
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, 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.

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Oil Conservation Division

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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: Adrian Baker Title: SSHE ManagerSignature:  Date: 07/16/2021email: Adrian.Baker@exxonmobil.com Telephone: (432)-221-7331**OCD Only**

Received by: _____ Date: _____

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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: Adrian Baker Title: SSHE Manager

Signature:  Date: 07/16/2021

email: Adrian.Baker@exxonmobil.com Telephone: 432-221-7331

OCD Only

Received by: Chad Hensley Date: 08/25/2021

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: 08/25/2021

Printed Name: Chad Hensley Title: Environmental Specialist Advanced



WSP USA

3300 North "A" Street
Building 1, Unit 222
Midland, Texas 79705
432.704.5178

July 16, 2021

District II
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

**RE: Closure Request
Poker Lake Unit 28 BS 907H
Incident Number NRM2028239353
Eddy County, New Mexico**

To Whom It May Concern:

WSP USA Inc. (WSP), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment, soil sampling, and excavation activities at the Poker Lake Unit (PLU) 28 BS 907H (Site) in Unit H, Section 28, Township 25 South, Range 31 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil following a release of produced water at the Site. Based on the excavation activities and results of the soil sampling events, XTO is submitting this Closure Request, describing remediation that has occurred and requesting no further action (NFA) for Incident Number NRM2028239353.

RELEASE BACKGROUND

On September 23, 2020, a valve was left open during hydraulic fracturing operations, resulting in the release of 10 barrels (bbls) of produced water into containment and onto the surface of the well pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 9 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Form C-141 on October 7, 2020. The release was assigned Incident Number NRM2028239353.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. During March 2021, WSP installed a soil boring (C-4500) within 0.5 miles of the Site utilizing a truck-mounted hollow-stem auger rig. Soil boring C-4500 was drilled to a depth of 110 feet bgs. A WSP geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The Well Record and Log is included in Attachment 1. The location of the



borehole is approximately 0.49 miles southwest of the Site and is depicted on Figure 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 110 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips.

The closest continuously flowing or significant watercourse to the Site is an unnamed dry wash, located approximately 1.35 miles southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On November 9, 2020, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected four preliminary assessment soil samples (SS01 through SS04) within the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of the impacted soil. The preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX



following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS02 through SS04, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for preliminary soil sample SS01 indicated that TPH-GRO/TPH-DRO and total TPH concentrations exceeded the Closure Criteria. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, delineation and excavation activities were warranted.

EXCAVATION AND DELINEATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

Further delineation and remediation efforts were postponed due to ongoing operations on the pad near the release, resulting in activity restrictions at the Site due to safety concerns. Per 19.15.29.12.B.(1) NMAC, two extensions for submission of a remediation plan or closure report were requested to the NMOCD. The initial extension was requested on March 17, 2021, and the final extension was requested June 17, 2021, extending the deadline to July 21, 2021.

On June 4, 2021, once flowback operations were complete, WSP personnel returned to the Site to oversee delineation and excavation activities. Three delineation potholes (PH01 through PH03) were advanced using a track-mounted backhoe to depths ranging from 2 feet to 3 feet bgs within the release extent. Potholes PH01, PH02, and PH03 were advanced at the SS02, SS03, and SS04 preliminary soil sample locations to further assess the vertical extent of the release. Delineation soil samples were collected from the potholes at depths ranging from 1-foot to 3 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for each pothole were logged on a lithologic/soil sampling log, which are included in Attachment 2. The potholes and delineation soil sample locations are presented on Figure 3.

WSP personnel directed excavation activities based on observed staining in the release area, field screening results, and laboratory analytical results for the preliminary soil samples. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Following removal of impacted soil, WSP collected one 5-point composite soil sample (FS01) from the floor of the excavation from a depth of 0.8 feet bgs. The 5-point composite sample was collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the sample by thoroughly mixing. Due to the shallow depth of the excavation, the floor sample represented the floor and sidewalls of the excavation. The excavation extent and floor sample location are presented on Figure 4. The delineation and excavation soil samples were collected, handled, and analyzed as described above at Eurofins in Carlsbad, New Mexico. Photographic documentation was conducted during the Site visits. A Photographic log is included in Attachment 3.

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The excavation measured approximately 200 square feet. A total of approximately 7 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was backfilled with material purchased locally and recontoured the Site to match pre-existing site conditions.

Laboratory analytical results for the delineation samples from potholes PH01 through PH03 and excavation floor soil sample FS01 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the September 23, 2020 release of produced water. Laboratory analytical results for the delineation and excavation soil samples indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no further remediation was required.

Initial response efforts which included removal of freestanding fluids via hydrovac and excavation of impacted soil have mitigated impacts at this Site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. WSP and XTO believe these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests no further action for Incident Number NRM202839353.

If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.

Sincerely,

WSP USA Inc.

A handwritten signature in black ink that reads "Korey Kennedy".

Korey Kennedy
Consultant, Environmental Scientist

A handwritten signature in black ink that reads "Ashley L. Ager".

Ashley L. Ager, P.G.
Managing Director, Geologist

cc: Adrian Baker, XTO
Bureau of Land Management

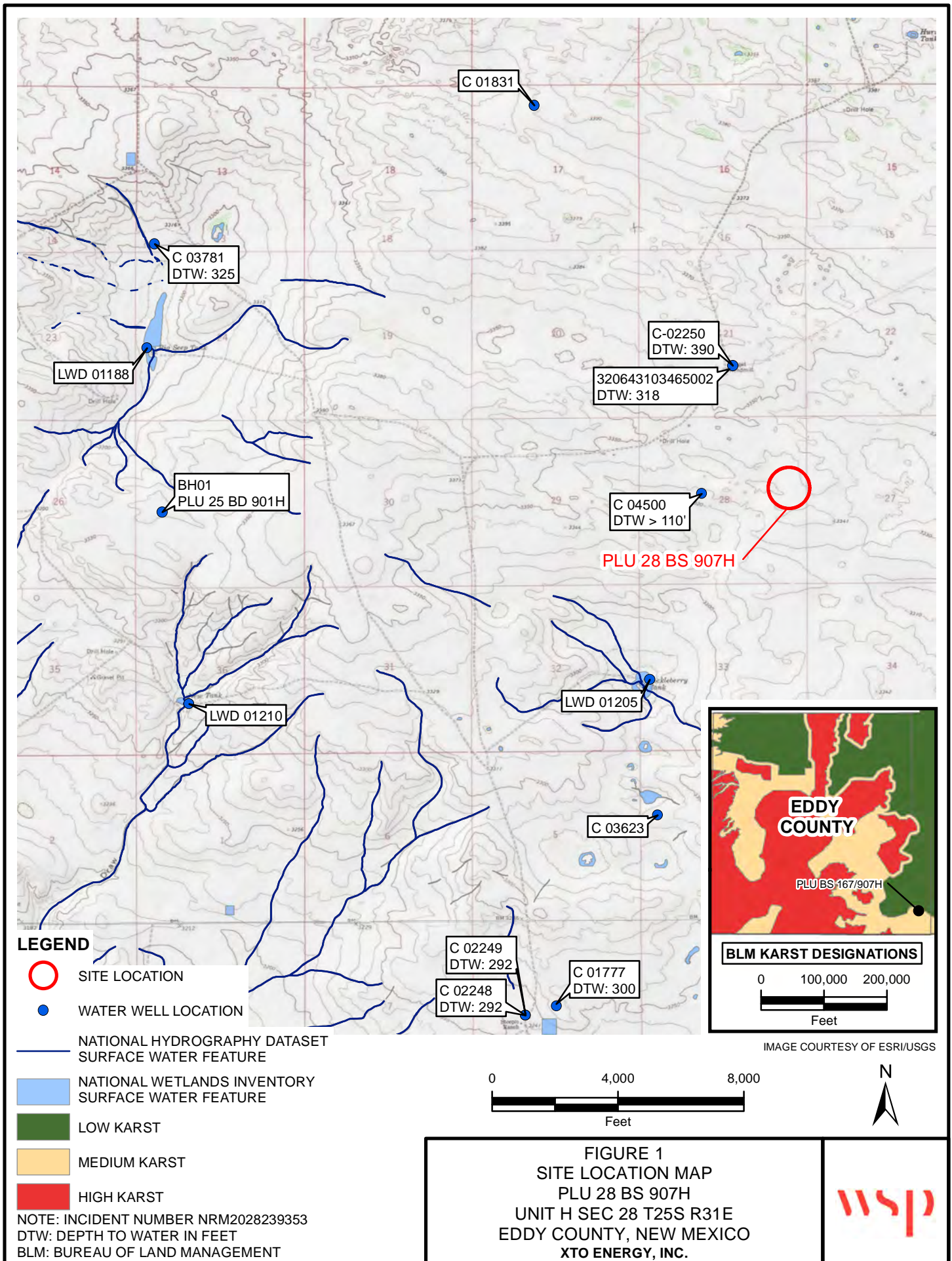


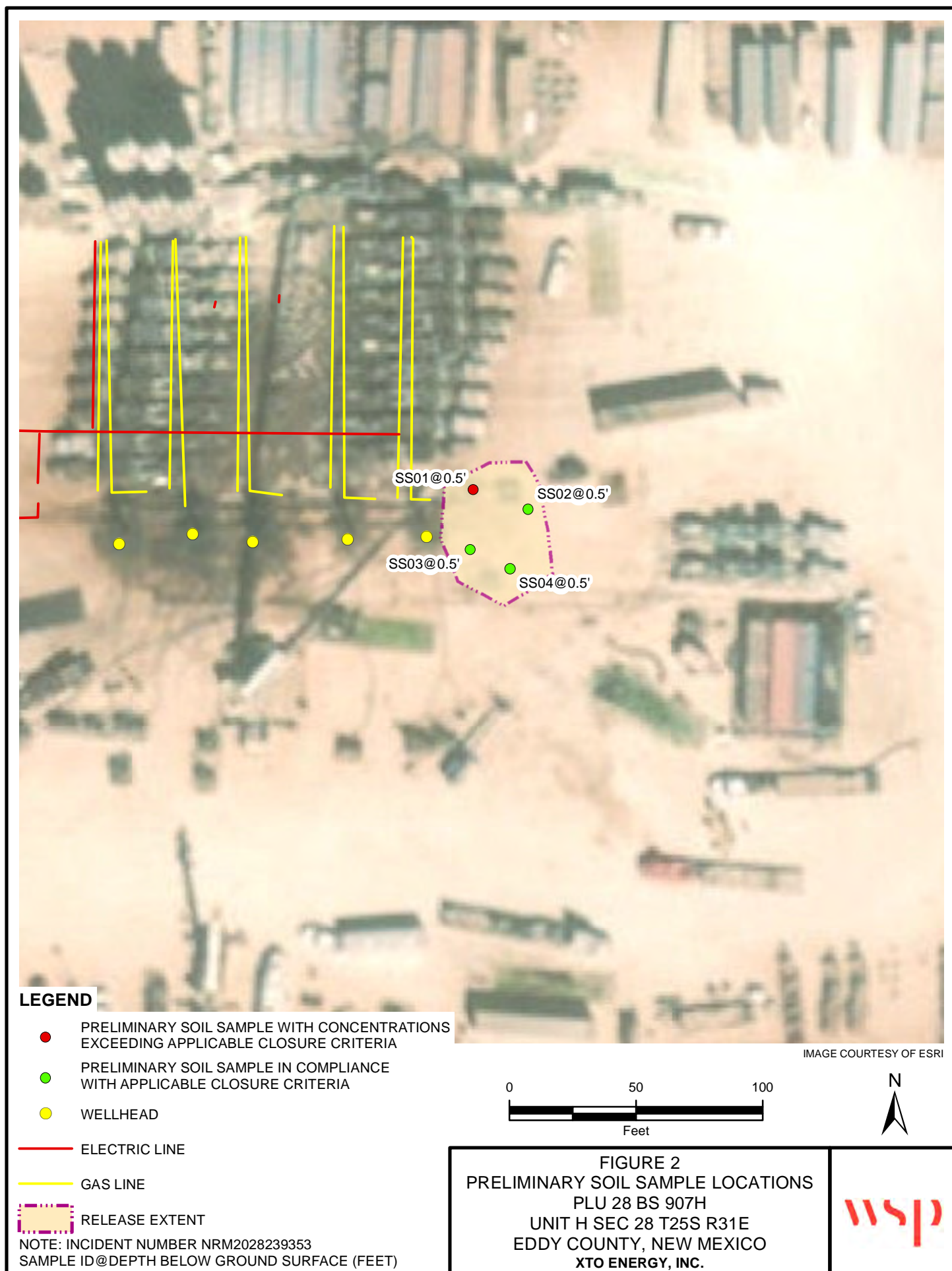
District II
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Attachments:

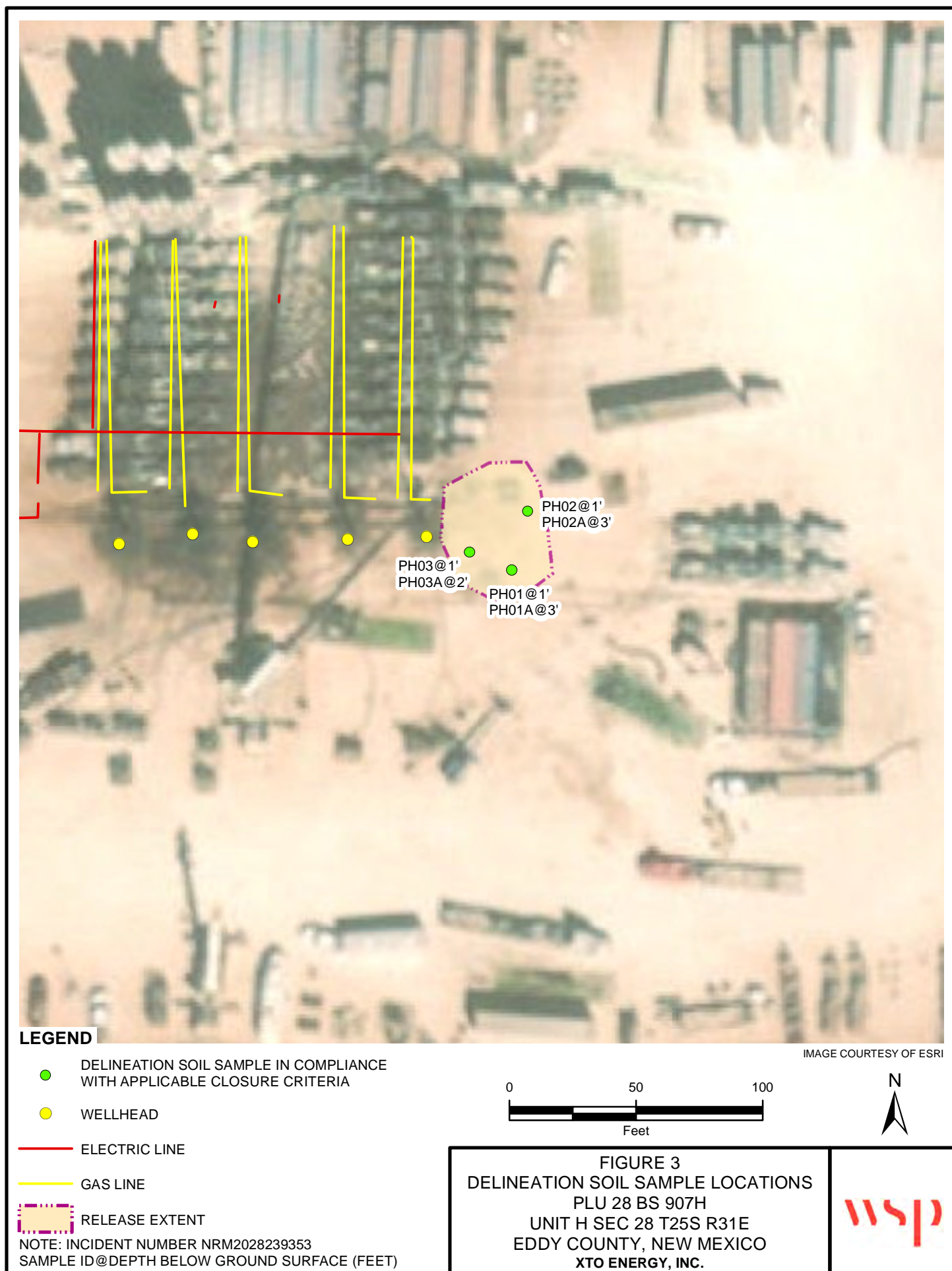
- Figure 1 Site Location Map
- Figure 2 Preliminary Soil Sample Locations
- Figure 3 Delineation Soil Sample Locations
- Figure 4 Excavation Soil Sample Locations
- Table 1 Soil Analytical Results
- Attachment 1 Referenced Well Records
- Attachment 2 Lithologic/Sampling Log
- Attachment 3 Photographic Log
- Attachment 4 Laboratory Analytical Reports

FIGURES





P:\XTO Energy\GIS\MXD\012920140_PLU BS 167_907H\012920140_FIG02_PRELIMINARY_2021.mxd



P:\XTO Energy\GIS\MXD\012920140_PLU BS 167_907H\012920140_FIG03_DELINEATION_2021_1.mxd

**LEGEND**

- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- WELLHEAD
- ELECTRIC LINE
- GAS LINE

XXXXXXXXXX EXCAVATION EXTENT

NOTE: INCIDENT NUMBER NRM2028239353
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

IMAGE COURTESY OF ESRI

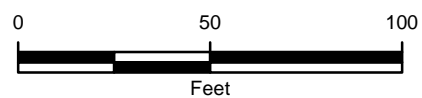


FIGURE 4
EXCAVATION SOIL SAMPLE LOCATIONS
PLU 28 BS 907H
UNIT H SEC 28 T25S R31E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



TABLES

Table 1

Soil Analytical Results
PLU 28 BS 907H
INCIDENT NUMBER NRM202839353
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Surface Samples										
SS01	11/09/2020	0.5	<0.00201	<0.00201	<50.2	2,650	772	2,650	3,420	1,960
SS02	11/09/2020	0.5	<0.00199	<0.00199	<50.1	137	<50.1	137	137	1,630
SS03	11/09/2020	0.5	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	17,400
SS04	11/09/2020	0.5	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	4,310
Delineation Samples										
PH01	06/04/2021	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	999
PH01A	06/04/2021	3	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	481
PH02	06/04/2021	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	253
PH02A	06/04/2021	3	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	175
PH03	06/04/2021	1	<0.00199	<0.00398	<49.8	964	71.2	964	1,040	6,400
PH03A	06/04/2021	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	917
Excavation Floor Samples										
FS01	06/04/2021	0.8	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	1,470

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard

Greyed data represents samples that were excavated

* - indicates sample was collected in area to be reclaimed after remediation is complete;

closure criteria for chloride concentration in the top 4 feet of soil is 600 mg/kg

ATTACHMENT 1: REFERENCED WELL RECORD



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National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

United States

GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 320643103465002

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320643103465002 25S.31E.21.413314A

Available data for this site

Groundwater: Field measurements



GO

Eddy County, New Mexico

Hydrologic Unit Code 13070001

Latitude 32°06'46.0", Longitude 103°46'56.3" NAD83

Land-surface elevation 3,374.00 feet above NGVD29

The depth of the well is 400 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

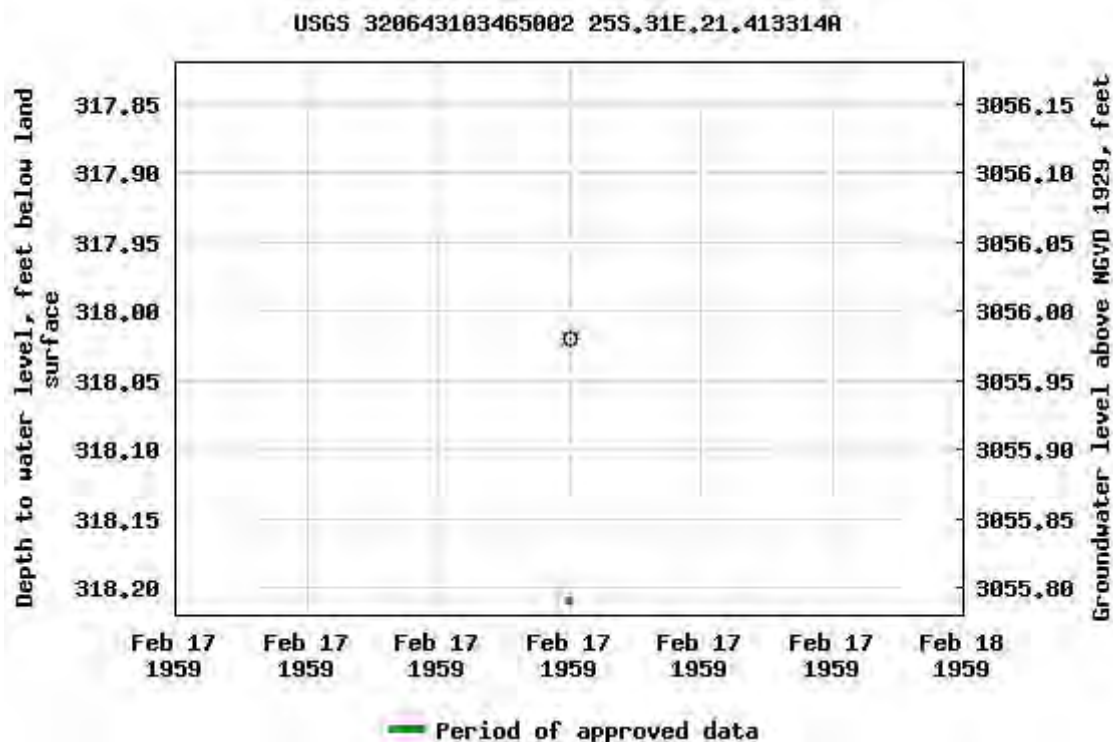
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Page Contact Information: [USGS Water Data Support Team](#)

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www.atkinseng.com

03/10/2021

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-1860 Pod1

To whom it may concern:

Attached please find a well record and a plugging record, in duplicate, for a one (1) soil borings, C-1860 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

A handwritten signature in black ink that reads "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

REC-077-00003-2021-PO-51



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER


www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (BH-01)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4500			
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 6	SECONDS 6.96 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	47	6.75 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NW Sec. 28 T25S R31E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 03/24/2021	DRILLING ENDED 03/24/2021	DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) 110	DEPTH WATER FIRST ENCOUNTERED (FT) n/a		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	110	±6.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	1	1	Caliche, no odor, no stain, tan, light-brown	Y ✓ N	
	1	3	2	Sand, no odor, no stain, m-f, well sorted, brown, trace silt, low consolidation	Y ✓ N	
	3	7	4	Sandy clay, no odor, no stain, m-f, brown, well sorted, low plasticity, cohesive	Y ✓ N	
	7	23	16	Caliche, tan, light brown sand, m-f grained, poorly sorted, low consolidation	Y ✓ N	
	23	110	87	sand, brown, no odor, no stain, fine grained, well sorted, low consolidation	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION: PLU 28 BS 126H, Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist.					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge					
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: <div style="display: flex; justify-content: space-between;"> <div>  SIGNATURE OF DRILLER / PRINT SIGNEE NAME </div> <div> Jackie D. Atkins DATE </div> </div>					

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.

POD NO.

TRN NO.

LOCATION

WELL TAG ID NO.

PAGE 2 OF 2

2021-05-05_C-4500_OSE_Well Record and Log_plu-forsign

Final Audit Report

2021-05-05

Created:	2021-05-05
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAA_LWDwbNSqlSjjUwKTERilqyesTFMr2Q

"2021-05-05_C-4500_OSE_Well Record and Log_plu-forsign" History



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Agreement completed.

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Adobe Sign



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4500- POD1

Well owner: XTO ENERGY (Kyle Littrell)

Phone No.: 432.682.8873

Mailing address: 6401 Holiday Hill Dr.

City: Midland

State: Texas

Zip code: 79707

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Shane Eldridge

4) Date well plugging began: 04/27/2021 Date well plugging concluded: 04/27/2021

5) GPS Well Location: Latitude: 32 deg, 6 min, 6.96 sec
Longitude: 103 deg, 47 min, 6.75 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 110 ft below ground level (bgl),
by the following manner: weighted tape

7) Static water level measured at initiation of plugging: n/a ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 12/01/2020

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

USE OF 4/5/2021 06:30

- For each interval plugged, describe within the following columns:**

III. SIGNATURE:

Jack Atkins

05/05/2021

Signature of Well Driller

Date _____

Version: September 8, 2009
Page 2 of 2






2021-05-05_C-4500_Plugging Record-forsign

Final Audit Report


2021-05-05


Created:	2021-05-05
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAABAK9L5xmxdw4gebAaYJQaFC_WD1hBxmnhv


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2021-05-05 - 9:30:31 PM GMT

ATTACHMENT 2: LITHOLOGIC/SAMPLING LOG

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					BH or PH Name: PH01		Date: 06/04/2021		
					Site Name: PLU 28 BS 907H				
					RP or Incident Number: NRM202839353				
					WSP Job Number: TE012920140				
LITHOLOGIC / SOIL SAMPLING LOG									
Lat/Long: 32.102163, -103.776371				Field Screening: Hach chloride strips, PID		Hole Diameter: NA		Total Depth: 3 feet bgs	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
D	778	2.5	N	PH01	1	1	SP	0-1' CALICHE, dry, off white, moderate - poor consolidation, no stain, no odor 1-3' SAND, dry, reddish brown, poorly graded, fine-very fine grain, no stain, no odor	
D	414	0.0	N	PH01A	3	3	CCHE	3' CALICHE, dry, tan-off white, moderately consolidated, no stain no odor	
TD @ 3 feet bgs									


 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					BH or PH Name: PH02		Date: 06/04/2021		
					Site Name: PLU 28 BS 907H				
					RP or Incident Number: NRM202839353				
					WSP Job Number: TE012920140				
LITHOLOGIC / SOIL SAMPLING LOG									
Lat/Long: 32.102227, -103.776350				Field Screening: Hach chloride strips, PID		Hole Diameter: NA		Total Depth: 3 feet bgs	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
D	156	0.1	N	PH02	1	1	SP	0-1' CALICHE, dry, off white, moderate - poor consolidation, no stain, no odor	
						2		1-3' SAND, dry, reddish brown, poorly graded, fine-very fine grain, no stain, no odor	
D	156	0.3	N	PH02A	3	3	CCHE	3' CALICHE, dry, tan-off white, moderately consolidated, no stain, no odor	
TD @ 3 feet bgs									

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					BH or PH Name: PH03		Date: 06/04/2021		
					Site Name: PLU 28 BS 907H				
					RP or Incident Number: NRM202839353				
					WSP Job Number: TE012920140				
LITHOLOGIC / SOIL SAMPLING LOG									
Lat/Long: 32.102240, -103.776415			Field Screening: Hach chloride strips, PID			Hole Diameter: NA		Total Depth: 3 feet bgs	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
M	4,838	4.4	N	PH02	1	1	SP	0-1' CALICHE, dry, off white, moderate - poor consolidation, no stain, no odor	
						2		1-3' SAND, dry, reddish brown, poorly graded, fine-very fine grain, no stain, no odor	
D	845	0.4	N	PH02A	3	3	CCHE	3' CALICHE, dry, tan-off white, moderately consolidated, no stain, no odor	
TD @ 3 feet bgs									

ATTACHMENT 3: PHOTOGRAPHIC LOG

**PHOTOGRAPHIC LOG****XTO Energy, Inc.****PLU 28 BS 907H
Eddy County, New Mexico****TE012920140**

Photo No.	Date	
1	June 4, 2021	
Southwest facing view of excavation activities.		 A photograph showing a yellow backhoe loader in the process of excavating a large pit in a dry, dusty field. The backhoe is positioned in the center of the frame, with its bucket raised and dumping soil. In the background, a white pickup truck is parked on the right, and a stack of lumber is visible on the left. The sky is clear blue with a few scattered clouds.

Photo No.	Date	
2	June 4, 2021	
South facing view of excavation extent.		 A photograph showing a large, deep excavation pit that has been dug into the ground. The pit is filled with loose, reddish-brown soil. In the background, a yellow backhoe loader is parked on the left, and a white pickup truck is visible on the right. The sky is clear blue with a few scattered clouds.

ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-786-1

Laboratory Sample Delivery Group: TE012920140

Client Project/Site: PLU 28 BS 907H

For:

WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, Texas 75207

Attn: Kalei Jennings

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
6/10/2021 6:40:15 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Laboratory Job ID: 890-786-1
SDG: TE012920140

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Job ID: 890-786-1
SDG: TE012920140

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Job ID: 890-786-1
SDG: TE012920140

Job ID: 890-786-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-786-1

Comments

No additional comments.

Receipt

The samples were received on 6/7/2021 10:56 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4° C.

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: PH01 (890-786-1), PH01A (890-786-2), PH02 (890-786-3), PH02A (890-786-4), PH03 (890-786-5), PH03A (890-786-6) and FS01 (890-786-7).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH01 (890-786-1), PH01A (890-786-2) and FS01 (890-786-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: Manual integration was performed on the following samples: PH01 (890-786-1), PH01A (890-786-2), PH02 (890-786-3), (MB 880-3906/1-A) and (890-783-A-1-E). A manual integration was performed in the >C12-C28 hydrocarbon range and the >C28-C36 hydrocarbon range due to a baseline rise creating a false detections.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Job ID: 890-786-1
SDG: TE012920140

Client Sample ID: PH01

Lab Sample ID: 890-786-1

Date Collected: 06/04/21 09:50

Matrix: Solid

Date Received: 06/07/21 10:56

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/08/21 09:04	06/08/21 16:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/08/21 09:04	06/08/21 16:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/08/21 09:04	06/08/21 16:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/08/21 09:04	06/08/21 16:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/08/21 09:04	06/08/21 16:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/08/21 09:04	06/08/21 16:12	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		06/08/21 09:04	06/08/21 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	06/08/21 09:04	06/08/21 16:12	1
1,4-Difluorobenzene (Surr)	121		70 - 130	06/08/21 09:04	06/08/21 16:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/08/21 16:28	06/09/21 04:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/08/21 16:28	06/09/21 04:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/08/21 16:28	06/09/21 04:56	1
Total TPH	<49.9	U	49.9	mg/Kg		06/08/21 16:28	06/09/21 04:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	06/08/21 16:28	06/09/21 04:56	1
o-Terphenyl	107		70 - 130	06/08/21 16:28	06/09/21 04:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	999		4.99	mg/Kg			06/10/21 14:50	1

Client Sample ID: PH01A

Lab Sample ID: 890-786-2

Date Collected: 06/04/21 10:03

Matrix: Solid

Date Received: 06/07/21 10:56

Sample Depth: - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/08/21 09:04	06/08/21 16:33	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/08/21 09:04	06/08/21 16:33	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/08/21 09:04	06/08/21 16:33	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/08/21 09:04	06/08/21 16:33	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/08/21 09:04	06/08/21 16:33	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/08/21 09:04	06/08/21 16:33	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		06/08/21 09:04	06/08/21 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	06/08/21 09:04	06/08/21 16:33	1
1,4-Difluorobenzene (Surr)	117		70 - 130	06/08/21 09:04	06/08/21 16:33	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Job ID: 890-786-1
SDG: TE012920140

Client Sample ID: PH01A

Lab Sample ID: 890-786-2

Date Collected: 06/04/21 10:03

Matrix: Solid

Date Received: 06/07/21 10:56

Sample Depth: - 3

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/08/21 16:28	06/09/21 05:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/08/21 16:28	06/09/21 05:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/08/21 16:28	06/09/21 05:16	1
Total TPH	<49.9	U	49.9	mg/Kg		06/08/21 16:28	06/09/21 05:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	06/08/21 16:28	06/09/21 05:16	1
o-Terphenyl	108		70 - 130	06/08/21 16:28	06/09/21 05:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	481		5.04	mg/Kg			06/10/21 15:09	1

Client Sample ID: PH02

Lab Sample ID: 890-786-3

Date Collected: 06/04/21 10:09

Matrix: Solid

Date Received: 06/07/21 10:56

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/09/21 08:34	06/09/21 18:36	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/09/21 08:34	06/09/21 18:36	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/09/21 08:34	06/09/21 18:36	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/09/21 08:34	06/09/21 18:36	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/09/21 08:34	06/09/21 18:36	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/09/21 08:34	06/09/21 18:36	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		06/09/21 08:34	06/09/21 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	06/09/21 08:34	06/09/21 18:36	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/09/21 08:34	06/09/21 18:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/08/21 16:28	06/09/21 05:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/08/21 16:28	06/09/21 05:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/08/21 16:28	06/09/21 05:36	1
Total TPH	<50.0	U	50.0	mg/Kg		06/08/21 16:28	06/09/21 05:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	06/08/21 16:28	06/09/21 05:36	1
o-Terphenyl	113		70 - 130	06/08/21 16:28	06/09/21 05:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	253		5.02	mg/Kg			06/10/21 15:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Job ID: 890-786-1
SDG: TE012920140

Client Sample ID: PH02A

Lab Sample ID: 890-786-4

Date Collected: 06/04/21 10:15

Matrix: Solid

Date Received: 06/07/21 10:56

Sample Depth: - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/09/21 08:34	06/09/21 18:57	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/09/21 08:34	06/09/21 18:57	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/09/21 08:34	06/09/21 18:57	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/09/21 08:34	06/09/21 18:57	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/09/21 08:34	06/09/21 18:57	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/09/21 08:34	06/09/21 18:57	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		06/09/21 08:34	06/09/21 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	06/09/21 08:34	06/09/21 18:57	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/09/21 08:34	06/09/21 18:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 00:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 00:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 00:51	1
Total TPH	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 00:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	06/08/21 16:43	06/09/21 00:51	1
o-Terphenyl	90		70 - 130	06/08/21 16:43	06/09/21 00:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	175		4.97	mg/Kg			06/10/21 15:32	1

Client Sample ID: PH03

Lab Sample ID: 890-786-5

Date Collected: 06/04/21 10:21

Matrix: Solid

Date Received: 06/07/21 10:56

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/09/21 08:34	06/09/21 19:17	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/09/21 08:34	06/09/21 19:17	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/09/21 08:34	06/09/21 19:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/09/21 08:34	06/09/21 19:17	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/09/21 08:34	06/09/21 19:17	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/09/21 08:34	06/09/21 19:17	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		06/09/21 08:34	06/09/21 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	06/09/21 08:34	06/09/21 19:17	1
1,4-Difluorobenzene (Surr)	103		70 - 130	06/09/21 08:34	06/09/21 19:17	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Job ID: 890-786-1
SDG: TE012920140

Client Sample ID: PH03

Lab Sample ID: 890-786-5

Date Collected: 06/04/21 10:21

Matrix: Solid

Date Received: 06/07/21 10:56

Sample Depth: - 1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 01:54	1
Diesel Range Organics (Over C10-C28)	964		49.8	mg/Kg		06/08/21 16:43	06/09/21 01:54	1
Oil Range Organics (Over C28-C36)	71.2		49.8	mg/Kg		06/08/21 16:43	06/09/21 01:54	1
Total TPH	1040		49.8	mg/Kg		06/08/21 16:43	06/09/21 01:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	06/08/21 16:43	06/09/21 01:54	1
o-Terphenyl	99		70 - 130	06/08/21 16:43	06/09/21 01:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6400		50.0	mg/Kg			06/10/21 15:37	10

Client Sample ID: PH03A

Lab Sample ID: 890-786-6

Date Collected: 06/04/21 10:28

Matrix: Solid

Date Received: 06/07/21 10:56

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/09/21 08:34	06/09/21 19:37	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/09/21 08:34	06/09/21 19:37	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/09/21 08:34	06/09/21 19:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/09/21 08:34	06/09/21 19:37	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/09/21 08:34	06/09/21 19:37	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/09/21 08:34	06/09/21 19:37	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		06/09/21 08:34	06/09/21 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	06/09/21 08:34	06/09/21 19:37	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/09/21 08:34	06/09/21 19:37	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/08/21 16:43	06/09/21 02:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/08/21 16:43	06/09/21 02:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/08/21 16:43	06/09/21 02:15	1
Total TPH	<50.0	U	50.0	mg/Kg		06/08/21 16:43	06/09/21 02:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	06/08/21 16:43	06/09/21 02:15	1
o-Terphenyl	102		70 - 130	06/08/21 16:43	06/09/21 02:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	917		5.00	mg/Kg			06/10/21 15:41	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Job ID: 890-786-1
SDG: TE012920140

Client Sample ID: FS01

Lab Sample ID: 890-786-7

Date Collected: 06/04/21 11:34

Matrix: Solid

Date Received: 06/07/21 10:56

Sample Depth: - 0.8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/08/21 09:04	06/08/21 15:52	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/08/21 09:04	06/08/21 15:52	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/08/21 09:04	06/08/21 15:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/08/21 09:04	06/08/21 15:52	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/08/21 09:04	06/08/21 15:52	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/08/21 09:04	06/08/21 15:52	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		06/08/21 09:04	06/08/21 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	06/08/21 09:04	06/08/21 15:52	1
1,4-Difluorobenzene (Surr)	133	S1+	70 - 130	06/08/21 09:04	06/08/21 15:52	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 02:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 02:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 02:36	1
Total TPH	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 02:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	06/08/21 16:43	06/09/21 02:36	1
o-Terphenyl	87		70 - 130	06/08/21 16:43	06/09/21 02:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1470		24.8	mg/Kg			06/10/21 15:46	5

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Job ID: 890-786-1
SDG: TE012920140

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-786-1	PH01	103	121
890-786-2	PH01A	94	117
890-786-3	PH02	108	100
890-786-4	PH02A	114	100
890-786-5	PH03	85	103
890-786-6	PH03A	109	100
890-786-7	FS01	98	133 S1+
LCS 880-3868/1-A	Lab Control Sample	93	115
LCS 880-3909/1-A	Lab Control Sample	115	103
LCSD 880-3868/2-A	Lab Control Sample Dup	97	117
LCSD 880-3909/2-A	Lab Control Sample Dup	109	103
MB 880-3868/5-A	Method Blank	101	109
MB 880-3909/5-A	Method Blank	86	93
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-786-1	PH01	104	107
890-786-2	PH01A	104	108
890-786-3	PH02	108	113
890-786-4	PH02A	98	90
890-786-4 MS	PH02A	88	77
890-786-4 MSD	PH02A	89	78
890-786-5	PH03	107	99
890-786-6	PH03A	108	102
890-786-7	FS01	94	87
LCS 880-3906/2-A	Lab Control Sample	98	98
LCS 880-3908/2-A	Lab Control Sample	88	79
LCSD 880-3906/3-A	Lab Control Sample Dup	99	99
LCSD 880-3908/3-A	Lab Control Sample Dup	88	78
MB 880-3906/1-A	Method Blank	94	0.003 S1-
MB 880-3908/1-A	Method Blank	110	106
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Job ID: 890-786-1
SDG: TE012920140

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3868/5-A

Matrix: Solid

Analysis Batch: 3872

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3868

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.002020		0.00200	mg/Kg		06/08/21 09:04	06/08/21 13:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/08/21 09:04	06/08/21 13:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/08/21 09:04	06/08/21 13:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/08/21 09:04	06/08/21 13:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/08/21 09:04	06/08/21 13:05	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/08/21 09:04	06/08/21 13:05	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/08/21 09:04	06/08/21 13:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/08/21 09:04	06/08/21 13:05	1
1,4-Difluorobenzene (Surr)	109		70 - 130	06/08/21 09:04	06/08/21 13:05	1

Lab Sample ID: LCS 880-3868/1-A

Matrix: Solid

Analysis Batch: 3872

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1016		mg/Kg		102	70 - 130
Toluene	0.100	0.09581		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.08963		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1835		mg/Kg		92	70 - 130
o-Xylene	0.100	0.08881		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: LCSD 880-3868/2-A

Matrix: Solid

Analysis Batch: 3872

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3868

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09670		mg/Kg		97	70 - 130	5	35
Toluene	0.100	0.1010		mg/Kg		101	70 - 130	5	35
Ethylbenzene	0.100	0.1010		mg/Kg		101	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1952		mg/Kg		98	70 - 130	6	35
o-Xylene	0.100	0.09803		mg/Kg		98	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: MB 880-3909/5-A

Matrix: Solid

Analysis Batch: 3916

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3909

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/09/21 08:34	06/09/21 13:28	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Job ID: 890-786-1
SDG: TE012920140

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-3909/5-A

Matrix: Solid

Analysis Batch: 3916

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3909

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200	mg/Kg		06/09/21 08:34	06/09/21 13:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/09/21 08:34	06/09/21 13:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/09/21 08:34	06/09/21 13:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/09/21 08:34	06/09/21 13:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/09/21 08:34	06/09/21 13:28	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/09/21 08:34	06/09/21 13:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	06/09/21 08:34	06/09/21 13:28	1
1,4-Difluorobenzene (Surr)	93		70 - 130	06/09/21 08:34	06/09/21 13:28	1

Lab Sample ID: LCS 880-3909/1-A

Matrix: Solid

Analysis Batch: 3916

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3909

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1060		mg/Kg		106	70 - 130
Toluene	0.100	0.1053		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.1088		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2323		mg/Kg		116	70 - 130
o-Xylene	0.100	0.1160		mg/Kg		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-3909/2-A

Matrix: Solid

Analysis Batch: 3916

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3909

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1070		mg/Kg		107	70 - 130	1	35
Toluene	0.100	0.1042		mg/Kg		104	70 - 130	1	35
Ethylbenzene	0.100	0.1061		mg/Kg		106	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2243		mg/Kg		112	70 - 130	4	35
o-Xylene	0.100	0.1116		mg/Kg		112	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Job ID: 890-786-1
SDG: TE012920140

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-3906/1-A

Matrix: Solid

Analysis Batch: 3875

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3906

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/08/21 16:28	06/08/21 21:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/08/21 16:28	06/08/21 21:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/08/21 16:28	06/08/21 21:32	1
Total TPH	<50.0	U	50.0	mg/Kg		06/08/21 16:28	06/08/21 21:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	06/08/21 16:28	06/08/21 21:32	1
o-Terphenyl	0.003	S1-	70 - 130	06/08/21 16:28	06/08/21 21:32	1

Lab Sample ID: LCS 880-3906/2-A

Matrix: Solid

Analysis Batch: 3875

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	892.1		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1035		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-3906/3-A

Matrix: Solid

Analysis Batch: 3875

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3906

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	888.3		mg/Kg		89	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	1036		mg/Kg		104	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: MB 880-3908/1-A

Matrix: Solid

Analysis Batch: 3879

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3908

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/08/21 16:43	06/08/21 23:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/08/21 16:43	06/08/21 23:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/08/21 16:43	06/08/21 23:48	1
Total TPH	<50.0	U	50.0	mg/Kg		06/08/21 16:43	06/08/21 23:48	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Job ID: 890-786-1
SDG: TE012920140

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	06/08/21 16:43	06/08/21 23:48	1
o-Terphenyl	106		70 - 130	06/08/21 16:43	06/08/21 23:48	1

Lab Sample ID: LCS 880-3908/2-A

Matrix: Solid

Analysis Batch: 3879

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3908

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	840.6		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	964.2		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: LCSD 880-3908/3-A

Matrix: Solid

Analysis Batch: 3879

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3908

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	829.9		mg/Kg		83	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	952.0		mg/Kg		95	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: 890-786-4 MS

Matrix: Solid

Analysis Batch: 3879

Client Sample ID: PH02A

Prep Type: Total/NA

Prep Batch: 3908

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	844.2		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	999	972.9		mg/Kg		94	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	77		70 - 130

Lab Sample ID: 890-786-4 MSD

Matrix: Solid

Analysis Batch: 3879

Client Sample ID: PH02A

Prep Type: Total/NA

Prep Batch: 3908

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	881.2		mg/Kg		88	70 - 130	4	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Job ID: 890-786-1
SDG: TE012920140

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-786-4 MSD

Matrix: Solid

Analysis Batch: 3879

Client Sample ID: PH02A

Prep Type: Total/NA

Prep Batch: 3908

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1000		mg/Kg		97	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	89		70 - 130								
o-Terphenyl	78		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3899/1-A

Matrix: Solid

Analysis Batch: 3934

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			06/10/21 12:50	1

Lab Sample ID: LCS 880-3899/2-A

Matrix: Solid

Analysis Batch: 3934

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	247.9		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-3899/3-A

Matrix: Solid

Analysis Batch: 3934

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	247.9		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-786-1 MS

Matrix: Solid

Analysis Batch: 3934

Client Sample ID: PH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	999		250	1207	4	mg/Kg		83	90 - 110

Lab Sample ID: 890-786-1 MSD

Matrix: Solid

Analysis Batch: 3934

Client Sample ID: PH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	999		250	1203	4	mg/Kg		82	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Job ID: 890-786-1
SDG: TE012920140

GC VOA

Prep Batch: 3868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-786-1	PH01	Total/NA	Solid	5035	
890-786-2	PH01A	Total/NA	Solid	5035	
890-786-7	FS01	Total/NA	Solid	5035	
MB 880-3868/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3868/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3868/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-786-1	PH01	Total/NA	Solid	8021B	3868
890-786-2	PH01A	Total/NA	Solid	8021B	3868
890-786-7	FS01	Total/NA	Solid	8021B	3868
MB 880-3868/5-A	Method Blank	Total/NA	Solid	8021B	3868
LCS 880-3868/1-A	Lab Control Sample	Total/NA	Solid	8021B	3868
LCSD 880-3868/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3868

Prep Batch: 3909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-786-3	PH02	Total/NA	Solid	5035	
890-786-4	PH02A	Total/NA	Solid	5035	
890-786-5	PH03	Total/NA	Solid	5035	
890-786-6	PH03A	Total/NA	Solid	5035	
MB 880-3909/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3909/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3909/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-786-3	PH02	Total/NA	Solid	8021B	3909
890-786-4	PH02A	Total/NA	Solid	8021B	3909
890-786-5	PH03	Total/NA	Solid	8021B	3909
890-786-6	PH03A	Total/NA	Solid	8021B	3909
MB 880-3909/5-A	Method Blank	Total/NA	Solid	8021B	3909
LCS 880-3909/1-A	Lab Control Sample	Total/NA	Solid	8021B	3909
LCSD 880-3909/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3909

GC Semi VOA

Analysis Batch: 3875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-786-1	PH01	Total/NA	Solid	8015B NM	3906
890-786-2	PH01A	Total/NA	Solid	8015B NM	3906
890-786-3	PH02	Total/NA	Solid	8015B NM	3906
MB 880-3906/1-A	Method Blank	Total/NA	Solid	8015B NM	3906
LCS 880-3906/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3906
LCSD 880-3906/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3906

Analysis Batch: 3879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-786-4	PH02A	Total/NA	Solid	8015B NM	3908
890-786-5	PH03	Total/NA	Solid	8015B NM	3908

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Job ID: 890-786-1
SDG: TE012920140

GC Semi VOA (Continued)

Analysis Batch: 3879 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-786-6	PH03A	Total/NA	Solid	8015B NM	3908
890-786-7	FS01	Total/NA	Solid	8015B NM	3908
MB 880-3908/1-A	Method Blank	Total/NA	Solid	8015B NM	3908
LCS 880-3908/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3908
LCSD 880-3908/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3908
890-786-4 MS	PH02A	Total/NA	Solid	8015B NM	3908
890-786-4 MSD	PH02A	Total/NA	Solid	8015B NM	3908

Prep Batch: 3906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-786-1	PH01	Total/NA	Solid	8015NM Prep	
890-786-2	PH01A	Total/NA	Solid	8015NM Prep	
890-786-3	PH02	Total/NA	Solid	8015NM Prep	
MB 880-3906/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3906/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3906/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 3908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-786-4	PH02A	Total/NA	Solid	8015NM Prep	
890-786-5	PH03	Total/NA	Solid	8015NM Prep	
890-786-6	PH03A	Total/NA	Solid	8015NM Prep	
890-786-7	FS01	Total/NA	Solid	8015NM Prep	
MB 880-3908/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3908/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3908/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-786-4 MS	PH02A	Total/NA	Solid	8015NM Prep	
890-786-4 MSD	PH02A	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 3899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-786-1	PH01	Soluble	Solid	DI Leach	
890-786-2	PH01A	Soluble	Solid	DI Leach	
890-786-3	PH02	Soluble	Solid	DI Leach	
890-786-4	PH02A	Soluble	Solid	DI Leach	
890-786-5	PH03	Soluble	Solid	DI Leach	
890-786-6	PH03A	Soluble	Solid	DI Leach	
890-786-7	FS01	Soluble	Solid	DI Leach	
MB 880-3899/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3899/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3899/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-786-1 MS	PH01	Soluble	Solid	DI Leach	
890-786-1 MSD	PH01	Soluble	Solid	DI Leach	

Analysis Batch: 3934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-786-1	PH01	Soluble	Solid	300.0	3899
890-786-2	PH01A	Soluble	Solid	300.0	3899
890-786-3	PH02	Soluble	Solid	300.0	3899

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Job ID: 890-786-1
SDG: TE012920140

HPLC/IC (Continued)

Analysis Batch: 3934 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-786-4	PH02A	Soluble	Solid	300.0	3899
890-786-5	PH03	Soluble	Solid	300.0	3899
890-786-6	PH03A	Soluble	Solid	300.0	3899
890-786-7	FS01	Soluble	Solid	300.0	3899
MB 880-3899/1-A	Method Blank	Soluble	Solid	300.0	3899
LCS 880-3899/2-A	Lab Control Sample	Soluble	Solid	300.0	3899
LCSD 880-3899/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3899
890-786-1 MS	PH01	Soluble	Solid	300.0	3899
890-786-1 MSD	PH01	Soluble	Solid	300.0	3899

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Job ID: 890-786-1
SDG: TE012920140

Client Sample ID: PH01

Lab Sample ID: 890-786-1

Date Collected: 06/04/21 09:50

Matrix: Solid

Date Received: 06/07/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3868	06/08/21 09:04	KL	XEN MID
Total/NA	Analysis	8021B		1	3872	06/08/21 16:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			3906	06/08/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3875	06/09/21 04:56	AJ	XEN MID
Soluble	Leach	DI Leach			3899	06/08/21 14:58	CH	XEN MID
Soluble	Analysis	300.0		1	3934	06/10/21 14:50	CH	XEN MID

Client Sample ID: PH01A

Lab Sample ID: 890-786-2

Date Collected: 06/04/21 10:03

Matrix: Solid

Date Received: 06/07/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3868	06/08/21 09:04	KL	XEN MID
Total/NA	Analysis	8021B		1	3872	06/08/21 16:33	KL	XEN MID
Total/NA	Prep	8015NM Prep			3906	06/08/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3875	06/09/21 05:16	AJ	XEN MID
Soluble	Leach	DI Leach			3899	06/08/21 14:58	CH	XEN MID
Soluble	Analysis	300.0		1	3934	06/10/21 15:09	CH	XEN MID

Client Sample ID: PH02

Lab Sample ID: 890-786-3

Date Collected: 06/04/21 10:09

Matrix: Solid

Date Received: 06/07/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3909	06/09/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	3916	06/09/21 18:36	KL	XEN MID
Total/NA	Prep	8015NM Prep			3906	06/08/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3875	06/09/21 05:36	AJ	XEN MID
Soluble	Leach	DI Leach			3899	06/08/21 14:58	CH	XEN MID
Soluble	Analysis	300.0		1	3934	06/10/21 15:14	CH	XEN MID

Client Sample ID: PH02A

Lab Sample ID: 890-786-4

Date Collected: 06/04/21 10:15

Matrix: Solid

Date Received: 06/07/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3909	06/09/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	3916	06/09/21 18:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			3908	06/08/21 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3879	06/09/21 00:51	AJ	XEN MID
Soluble	Leach	DI Leach			3899	06/08/21 14:58	CH	XEN MID
Soluble	Analysis	300.0		1	3934	06/10/21 15:32	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Job ID: 890-786-1
SDG: TE012920140

Client Sample ID: PH03

Lab Sample ID: 890-786-5

Date Collected: 06/04/21 10:21

Matrix: Solid

Date Received: 06/07/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3909	06/09/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	3916	06/09/21 19:17	KL	XEN MID
Total/NA	Prep	8015NM Prep			3908	06/08/21 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3879	06/09/21 01:54	AJ	XEN MID
Soluble	Leach	DI Leach			3899	06/08/21 14:58	CH	XEN MID
Soluble	Analysis	300.0		10	3934	06/10/21 15:37	CH	XEN MID

Client Sample ID: PH03A

Lab Sample ID: 890-786-6

Date Collected: 06/04/21 10:28

Matrix: Solid

Date Received: 06/07/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3909	06/09/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	3916	06/09/21 19:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			3908	06/08/21 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3879	06/09/21 02:15	AJ	XEN MID
Soluble	Leach	DI Leach			3899	06/08/21 14:58	CH	XEN MID
Soluble	Analysis	300.0		1	3934	06/10/21 15:41	CH	XEN MID

Client Sample ID: FS01

Lab Sample ID: 890-786-7

Date Collected: 06/04/21 11:34

Matrix: Solid

Date Received: 06/07/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3868	06/08/21 09:04	KL	XEN MID
Total/NA	Analysis	8021B		1	3872	06/08/21 15:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			3908	06/08/21 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3879	06/09/21 02:36	AJ	XEN MID
Soluble	Leach	DI Leach			3899	06/08/21 14:58	CH	XEN MID
Soluble	Analysis	300.0		5	3934	06/10/21 15:46	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Job ID: 890-786-1
SDG: TE012920140

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Job ID: 890-786-1
SDG: TE012920140

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 907H

Job ID: 890-786-1
SDG: TE012920140

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-786-1	PH01	Solid	06/04/21 09:50	06/07/21 10:56	- 1
890-786-2	PH01A	Solid	06/04/21 10:03	06/07/21 10:56	- 3
890-786-3	PH02	Solid	06/04/21 10:09	06/07/21 10:56	- 1
890-786-4	PH02A	Solid	06/04/21 10:15	06/07/21 10:56	- 3
890-786-5	PH03	Solid	06/04/21 10:21	06/07/21 10:56	- 1
890-786-6	PH03A	Solid	06/04/21 10:28	06/07/21 10:56	- 2
890-786-7	FS01	Solid	06/04/21 11:34	06/07/21 10:56	- 0.8



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 Casabad, NM (432) 704-5440
Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 448-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6787

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:		Kate Jennings	Bill to: (if different)	Kyle Little
Company Name:		WEP USA	Company Name:	XTO Energy
Address:		3300 North A Street	Address:	3104 E. Strawn St
City, State ZIP:		Midland, TX 79705	City, State ZIP:	Cadebad, NM 88220
Phone:		(817) 683-2503	Email:	Kate.jennings@usps.com, fathma.smith@usps.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

[illegible]

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number	TPH	BTE	Chl	Sample Comments
	PH01	S	6/4/21	0950	1'	1				
	PH01A			1003	3'					
	PH02			1009	1'					
	PH02A			1015	3'					
	PH03			1021	1'					
	PH03A			1028	3'					
	ES01			1134	0.8'					

~~Not Dr~~

Total	200.7 / 6010	200.8 / 6020:	
Circle Method(s) and Metal(s) to be analyzed	8RCRA	13PPM	Texas 11
	TCLP / SPLP 6010:	8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl 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 Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Service will be hedge only for the cost of samples and return of assays any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xeno. A valid purchase order of \$25,000 will be required for research projects and a minimum of \$500 for each sample submitted to Xeno, 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
1	<i>[Signature]</i>	<i>[Signature]</i>	6/7/21/10:56	2		
3				4		
5				6		

Revised Date 02/26/19 Rev 2019

Incident NRM2028239353
~~EE~~ FS.
AFE DD.2017.01906.CAP.CMP.01

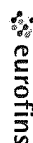
Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad NM 88220

Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)							
Company						Sampler	COC No.
Eurofins Xenco						Kramer Jessica	890-253 1
Address 1211 W Florida Ave Midland TX, 79701 Phone 432-704-5440(Tel) Email						Lab PM Kramer Jessica E-Mail jessica.kramer@eurofinet.com Accreditations Required (See note) NELAP - Louisiana NELAP - Texas	Carrier Tracking No(s)
Due Date Requested 6/11/2021						TAT Requested (days)	State of Origin New Mexico
						PO #	
						WO #	
Project Name PLU 28 BS 907H						Project # 89000004	
Site						SSOVW#:	
Sample Identification - Client ID (Lab ID)							
PH01 (890-786-1)	6/4/21	09 50	Mountain	Solid	X	X	X
PH01A (890-786-2)	6/4/21	10 03	Mountain	Solid	X	X	X
PH02 (890-786-3)	6/4/21	10 09	Mountain	Solid	X	X	X
PH02A (890-786-4)	6/4/21	10 15	Mountain	Solid	X	X	X
PH03 (890-786-5)	6/4/21	10 21	Mountain	Solid	X	X	X
PH03A (890-786-6)	6/4/21	10 28	Mountain	Solid	X	X	X
FSD1 (890-786-7)	6/4/21	11 34	Mountain	Solid	X	X	X
Total Number of containers							
Special Instructions/Note: 							

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysts/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC Laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC

Possible Hazard Identification

Unconfirmed Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2

Empty Kit Relinquished by Date Time Method of Shipment

Relinquished by Received by Date Time Company

Relinquished by Received by Date Time Company

Relinquished by Received by Date Time Company

Cooler Temperature(s) °C and Other Remarks

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-786-1

SDG Number: TE012920140

Login Number: 786

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-786-1

SDG Number: TE012920140

Login Number: 786

List Source: Eurofins Xenco, Midland

List Number: 2

List Creation: 06/08/21 01:17 PM

Creator: Copeland, Tatiana

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Certificate of Analysis Summary 677372

WSP USA, Dallas, TX

Project Name: PLU 28 BS 907H

Project Id: TE012920140

Contact: Dan Moir

Project Location:

Date Received in Lab: Tue 11.10.2020 10:30

Report Date: 11.13.2020 14:51

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	677372-001	677372-002	677372-003	677372-004		
	<i>Field Id:</i>	SS01	SS02	SS03	SS04		
	<i>Depth:</i>	0.5- ft	0.5- ft	0.5- ft	0.5- ft		
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	11.09.2020 12:31	11.09.2020 12:26	11.09.2020 12:23	11.09.2020 12:18		
BTEX by EPA 8021B	<i>Extracted:</i>	11.10.2020 13:01	11.10.2020 13:01	11.10.2020 13:01	11.10.2020 13:01		
	<i>Analyzed:</i>	11.10.2020 21:50	11.10.2020 22:12	11.10.2020 22:34	11.10.2020 22:57		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00201 0.00201	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201		
Toluene		<0.00201 0.00201	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201		
Ethylbenzene		<0.00201 0.00201	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201		
m,p-Xylenes		<0.00402 0.00402	<0.00398 0.00398	<0.00404 0.00404	<0.00402 0.00402		
o-Xylene		<0.00201 0.00201	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201		
Total Xylenes		<0.00201 0.00201	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201		
Total BTEX		<0.00201 0.00201	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201		
Chloride by EPA 300	<i>Extracted:</i>	11.10.2020 14:05	11.10.2020 14:05	11.10.2020 14:05	11.10.2020 14:05		
	<i>Analyzed:</i>	11.10.2020 17:40	11.10.2020 17:46	11.10.2020 17:51	11.10.2020 18:19		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		1960 50.2	1630 50.1	17400 200	4310 49.6		
TPH by SW8015 Mod	<i>Extracted:</i>	11.10.2020 12:03	11.10.2020 12:03	11.10.2020 12:03	11.10.2020 12:03		
	<i>Analyzed:</i>	11.10.2020 18:23	11.10.2020 18:44	11.10.2020 19:05	11.10.2020 19:27		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<50.1 50.1	<50.0 50.0	<50.2 50.2		
Diesel Range Organics (DRO)		2650 50.2	137 50.1	<50.0 50.0	<50.2 50.2		
Motor Oil Range Hydrocarbons (MRO)		772 50.2	<50.1 50.1	<50.0 50.0	<50.2 50.2		
Total GRO-DRO		2650 50.2	137 50.1	<50.0 50.0	<50.2 50.2		
Total TPH		3420 50.2	137 50.1	<50.0 50.0	<50.2 50.2		

BRL - Below Reporting Limit

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





Analytical Report 677372

for

WSP USA

Project Manager: Dan Moir

PLU 28 BS 907H

TE012920140

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: **Dan Moir**

WSP USA

2777 N. Stemmons Freeway, Suite 1600

Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): **677372**

PLU 28 BS 907H

Project Address:

Dan Moir:

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) 677372. 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. 677372 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,

A handwritten signature in black ink that reads "Jessica Kramer".

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 677372****WSP USA, Dallas, TX**

PLU 28 BS 907H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	11.09.2020 12:31	0.5 ft	677372-001
SS02	S	11.09.2020 12:26	0.5 ft	677372-002
SS03	S	11.09.2020 12:23	0.5 ft	677372-003
SS04	S	11.09.2020 12:18	0.5 ft	677372-004



CASE NARRATIVE

Client Name: WSP USA

Project Name: PLU 28 BS 907H

Project ID: TE012920140
Work Order Number(s): 677372

Report Date: 11.13.2020
Date Received: 11.10.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 677372

WSP USA, Dallas, TX

PLU 28 BS 907H

Sample Id: **SS01**
Lab Sample Id: 677372-001

Matrix: Soil
Date Collected: 11.09.2020 12:31

Date Received: 11.10.2020 10:30
Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.10.2020 14:05

% Moisture:
Basis: Wet Weight

Seq Number: 3141921

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1960	50.2	mg/kg	11.10.2020 17:40		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.10.2020 12:03

% Moisture:
Basis: Wet Weight

Seq Number: 3141920

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.10.2020 18:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	2650	50.2	mg/kg	11.10.2020 18:23		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	772	50.2	mg/kg	11.10.2020 18:23		1
Total GRO-DRO	PHC628	2650	50.2	mg/kg	11.10.2020 18:23		1
Total TPH	PHC635	3420	50.2	mg/kg	11.10.2020 18:23		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	129	%	70-135	11.10.2020 18:23	
o-Terphenyl	84-15-1	126	%	70-135	11.10.2020 18:23	



Certificate of Analytical Results 677372

WSP USA, Dallas, TX

PLU 28 BS 907H

Sample Id: **SS01**
Lab Sample Id: 677372-001

Matrix: Soil
Date Collected: 11.09.2020 12:31

Date Received: 11.10.2020 10:30
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.10.2020 13:01

% Moisture:
Basis: Wet Weight

Seq Number: 3141914

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.10.2020 21:50	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.10.2020 21:50	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.10.2020 21:50	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.10.2020 21:50	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.10.2020 21:50	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.10.2020 21:50	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.10.2020 21:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	11.10.2020 21:50	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.10.2020 21:50	



Certificate of Analytical Results 677372

WSP USA, Dallas, TX

PLU 28 BS 907H

Sample Id: **SS02**
Lab Sample Id: 677372-002

Matrix: Soil
Date Collected: 11.09.2020 12:26

Date Received: 11.10.2020 10:30
Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.10.2020 14:05

% Moisture:
Basis: Wet Weight

Seq Number: 3141921

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1630	50.1	mg/kg	11.10.2020 17:46		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.10.2020 12:03

% Moisture:
Basis: Wet Weight

Seq Number: 3141920

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.10.2020 18:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	137	50.1	mg/kg	11.10.2020 18:44		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.10.2020 18:44	U	1
Total GRO-DRO	PHC628	137	50.1	mg/kg	11.10.2020 18:44		1
Total TPH	PHC635	137	50.1	mg/kg	11.10.2020 18:44		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	132	%	70-135	11.10.2020 18:44	
o-Terphenyl	84-15-1	98	%	70-135	11.10.2020 18:44	



Certificate of Analytical Results 677372

WSP USA, Dallas, TX

PLU 28 BS 907H

Sample Id: **SS02**
Lab Sample Id: 677372-002

Matrix: Soil
Date Collected: 11.09.2020 12:26

Date Received: 11.10.2020 10:30
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.10.2020 13:01

% Moisture:
Basis: Wet Weight

Seq Number: 3141914

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.10.2020 22:12	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.10.2020 22:12	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.10.2020 22:12	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.10.2020 22:12	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.10.2020 22:12	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.10.2020 22:12	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.10.2020 22:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.10.2020 22:12	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.10.2020 22:12	



Certificate of Analytical Results 677372

WSP USA, Dallas, TX

PLU 28 BS 907H

Sample Id: **SS03**
Lab Sample Id: 677372-003

Matrix: Soil
Date Collected: 11.09.2020 12:23

Date Received: 11.10.2020 10:30
Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.10.2020 14:05

% Moisture:
Basis: Wet Weight

Seq Number: 3141921

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17400	200	mg/kg	11.10.2020 17:51		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.10.2020 12:03

% Moisture:
Basis: Wet Weight

Seq Number: 3141920

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.10.2020 19:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.10.2020 19:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.10.2020 19:05	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	11.10.2020 19:05	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.10.2020 19:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	11.10.2020 19:05	
o-Terphenyl	84-15-1	92	%	70-135	11.10.2020 19:05	



Certificate of Analytical Results 677372

WSP USA, Dallas, TX

PLU 28 BS 907H

Sample Id: **SS03**
Lab Sample Id: 677372-003

Matrix: Soil
Date Collected: 11.09.2020 12:23

Date Received: 11.10.2020 10:30
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.10.2020 13:01

% Moisture:
Basis: Wet Weight

Seq Number: 3141914

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.10.2020 22:34	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.10.2020 22:34	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.10.2020 22:34	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	11.10.2020 22:34	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.10.2020 22:34	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	11.10.2020 22:34	U	1
Total BTEX		<0.00202	0.00202	mg/kg	11.10.2020 22:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.10.2020 22:34	
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.10.2020 22:34	



Certificate of Analytical Results 677372

WSP USA, Dallas, TX

PLU 28 BS 907H

Sample Id: **SS04**
Lab Sample Id: 677372-004

Matrix: Soil
Date Collected: 11.09.2020 12:18

Date Received: 11.10.2020 10:30
Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.10.2020 14:05

% Moisture:
Basis: Wet Weight

Seq Number: 3141921

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4310	49.6	mg/kg	11.10.2020 18:19		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.10.2020 12:03

% Moisture:
Basis: Wet Weight

Seq Number: 3141920

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.10.2020 19:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.10.2020 19:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.10.2020 19:27	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	11.10.2020 19:27	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.10.2020 19:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	11.10.2020 19:27	
o-Terphenyl	84-15-1	114	%	70-135	11.10.2020 19:27	



Certificate of Analytical Results 677372

WSP USA, Dallas, TX

PLU 28 BS 907H

Sample Id: **SS04**
Lab Sample Id: 677372-004

Matrix: Soil
Date Collected: 11.09.2020 12:18

Date Received: 11.10.2020 10:30
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.10.2020 13:01

% Moisture:
Basis: Wet Weight

Seq Number: 3141914

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.10.2020 22:57	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.10.2020 22:57	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.10.2020 22:57	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.10.2020 22:57	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.10.2020 22:57	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.10.2020 22:57	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.10.2020 22:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	11.10.2020 22:57	
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.10.2020 22:57	



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



WSP USA
PLU 28 BS 907H

Analytical Method: Chloride by EPA 300

Seq Number: 3141921

MB Sample Id: 7714902-1-BLK

Matrix: Solid

LCS Sample Id: 7714902-1-BKS

Prep Method: E300P

Date Prep: 11.10.2020

LCSD Sample Id: 7714902-1-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	251	100	247	99	90-110	2	20	mg/kg	11.10.2020 16:13	

Analytical Method: Chloride by EPA 300

Seq Number: 3141921

Parent Sample Id: 677299-002

Matrix: Soil

MS Sample Id: 677299-002 S

Prep Method: E300P

Date Prep: 11.10.2020

MSD Sample Id: 677299-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	483	200	685	101	686	101	90-110	0	20	mg/kg	11.10.2020 16:29	

Analytical Method: Chloride by EPA 300

Seq Number: 3141921

Parent Sample Id: 677372-003

Matrix: Soil

MS Sample Id: 677372-003 S

Prep Method: E300P

Date Prep: 11.10.2020

MSD Sample Id: 677372-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	17400	200	17600	100	17600	100	90-110	0	20	mg/kg	11.10.2020 17:57	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3141920

MB Sample Id: 7714924-1-BLK

Matrix: Solid

LCS Sample Id: 7714924-1-BKS

Prep Method: SW8015P

Date Prep: 11.10.2020

LCSD Sample Id: 7714924-1-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	948	95	928	93	70-135	2	35	mg/kg	11.10.2020 15:36	
Diesel Range Organics (DRO)	<50.0	1000	1040	104	1040	104	70-135	0	35	mg/kg	11.10.2020 15:36	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	112		128		110		70-135	%	11.10.2020 15:36
o-Terphenyl	98		98		100		70-135	%	11.10.2020 15:36

Analytical Method: TPH by SW8015 Mod

Seq Number: 3141920

Matrix: Solid

MB Sample Id: 7714924-1-BLK

Prep Method: SW8015P

Date Prep: 11.10.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.10.2020 15:14	

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



WSP USA
PLU 28 BS 907H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3141920

Parent Sample Id: 677371-001

Matrix: Soil

MS Sample Id: 677371-001 S

Prep Method: SW8015P

Date Prep: 11.10.2020

MSD Sample Id: 677371-001 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)	<49.8	995	922	93	925	93	70-135	0	35	mg/kg	11.10.2020 16:39	
Diesel Range Organics (DRO)	<49.8	995	911	92	920	92	70-135	1	35	mg/kg	11.10.2020 16:39	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	114		110		70-135	%	11.10.2020 16:39
o-Terphenyl	118		94		70-135	%	11.10.2020 16:39

Analytical Method: BTEX by EPA 8021B

Seq Number: 3141914

MB Sample Id: 7714901-1-BLK

Matrix: Solid

LCS Sample Id: 7714901-1-BKS

Prep Method: SW5035A

Date Prep: 11.10.2020

LCSD Sample Id: 7714901-1-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	0.0955	96	0.0977	98	70-130	2	35	mg/kg	11.10.2020 15:04	
Toluene	<0.00200	0.100	0.0906	91	0.0902	90	70-130	0	35	mg/kg	11.10.2020 15:04	
Ethylbenzene	<0.00200	0.100	0.0934	93	0.0939	94	71-129	1	35	mg/kg	11.10.2020 15:04	
m,p-Xylenes	<0.00400	0.200	0.195	98	0.192	96	70-135	2	35	mg/kg	11.10.2020 15:04	
o-Xylene	<0.00200	0.100	0.0941	94	0.0949	95	71-133	1	35	mg/kg	11.10.2020 15:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		99		101		70-130	%	11.10.2020 15:04
4-Bromofluorobenzene	112		107		110		70-130	%	11.10.2020 15:04

Analytical Method: BTEX by EPA 8021B

Seq Number: 3141914

Parent Sample Id: 677299-002

Matrix: Soil

MS Sample Id: 677299-002 S

Prep Method: SW5035A

Date Prep: 11.10.2020

MSD Sample Id: 677299-002 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	0.112	111	0.108	108	70-130	4	35	mg/kg	11.10.2020 15:48	
Toluene	<0.00201	0.101	0.106	105	0.102	102	70-130	4	35	mg/kg	11.10.2020 15:48	
Ethylbenzene	<0.00201	0.101	0.110	109	0.106	106	71-129	4	35	mg/kg	11.10.2020 15:48	
m,p-Xylenes	<0.00402	0.201	0.221	110	0.214	107	70-135	3	35	mg/kg	11.10.2020 15:48	
o-Xylene	<0.00201	0.101	0.111	110	0.107	107	71-133	4	35	mg/kg	11.10.2020 15:48	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		101		70-130	%	11.10.2020 15:48
4-Bromofluorobenzene	112		112		70-130	%	11.10.2020 15:48

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



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) 565-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (480-365-0900) Atlanta, GA (770-449-8800) Tampa, FL (813) 988-8800
Hobbs, NM (575-392-7550)

Page 1 of 1
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Chain of Custody

Work Order No: 6077372

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	WSP	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	Spencer.Lo@wsp.com, Almee.Cole@wsp.com, Dan.Moir@wsp.com

Work Order Comments									
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>									
State of Project:									
Reporting Level: I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>									
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: <input type="checkbox"/>									

ANALYSIS REQUEST

Work Order Notes

Project Name:	PLU 28 85 907 H	Turn Around
Project Number:	TE012920140	Routine <input checked="" type="checkbox"/>
P.O. Number:		Rush:
Sampler's Name:	Spencer Lo	Due Date:

SAMPLE RECEIPT		Temp Blank:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Wet Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Temperature (°C):	0.8/0.6				Thermometer ID		
Received intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Correction Factor:	-0.2	
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A			Total Containers:	4	
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A					

Number of Containers
(EPA 8015)
K (EPA 0=8021)
ride (EPA 300.0)

TAT starts the day received by the lab, if received by 4:30pm

Sample Comments

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number	TPH	BTEX	Chloro	Sample Comments
S501	S	11/9/20	1231	0.5'	1	X	X	X	
S502			1226						
S503			1223						
S504			1218						

Total	200.7 / 6010	200.8 / 6020:
TRCA	13PPM	8RCR
TCD / CMTD	lexas T1 AI	Sd AS
TCRD	Sh As	dA ba
TCRD	Ba Re	Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
TCRD	6940: apBCA	
		1631 / 245.1 / 7470 / 7471 : Hg

Circle Method(s) and Metal(s) to be analyzed

I C L P / S I L P 6010. 8RCKA DQ AS DA DE DU CI CC CC CC CC CC CC CC CC

If someone standard terms are

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.

of Xenco. A minimum charge of \$750.00 will be applied to open projects with a minimum of 2				Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)
1 <i>[Signature]</i>	<i>[Signature]</i>	11/10/20 1020	2 <i>[Signature]</i>	<i>[Signature]</i>
3			4	
5			6	

Revised Date 05/14/18 Rev. 2018

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA

Date/ Time Received: 11.10.2020 10.30.00 AM

Work Order #: 677372

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
#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

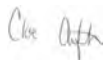
Samples received in bulk containers.

* 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: 11.10.2020

Checklist reviewed by:



Jessica Kramer

Date: 11.13.2020

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 37320

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 37320
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	8/25/2021