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	NAPP2105535211
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@exxonmobil.com	Incident # *(assigned by OCD)*
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.10435 Longitude -103.78638
(NAD 83 in decimal degrees to 5 decimal places)

Site Name PLU 28 Big Sinks	Site Type Central Tank Battery
Date Release Discovered 2/13/2021	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
F	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)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 6.25	Volume Recovered (bbls) 6.0
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release A frozen ball valve split, causing fluid to release from a trunk line. A vacuum truck recovered standing fluids. A third-party contractor has been retained for remediation activities.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2105535211
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ 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

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:
NA

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: Kyle Littrell
Title: Environmental Manager
Signature: 
Date: 02-24-21
email: kyle.littrell@exxonmobil.com
Telephone: 432-221-7331

OCD Only

Received by: Ramona Marcus
Date: 5/4/2021

NAPP2105535211

Location:	**PLU 28 BS CTB**	
Spill Date:	**2/13/2021**	
Area 1		
Approximate Area =	1106.00	sq. ft.
Average Saturation (or depth) of spill =	0.50	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Produced Water =	6.25	bbls
TOTAL VOLUME OF LEAK		
Total Produced Water =	**6.25**	**bbls**
TOTAL VOLUME RECOVERED		
Total Produced Water =	**6.00**	**bbls**

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2105535211
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2105535211
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Adrian Baker Title: SSHE Coordinator

Signature: Adrian Baker Date: 8/02/2021

email: Adrian Baker@exxonmobil.com Telephone: (432)236-3808

OCD Only

Received by: Date:

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2105535211
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Adrian Baker Title: SSHE Coordinator

Signature: Adrian Bates Date: 8/02/2021

email: Adrian Baker@exxonmobil.com Telephone: (432) 236-3808

OCD Only

Received by: Date:

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Date:

Printed Name: Title:

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2105535211
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Adrian Baker Title: SSHE Coordinator

Signature: Adrian Bates Date: 8/02/2021

email: Adrian Baker@exxonmobil.com Telephone: (432) 236-3808

OCD Only

Received by: Robert Hamlet Date: 11/3/2021

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: Robert Hamlet Date: 11/3/2021

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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

August 3, 2021

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

RE: Closure Request
PLU 28 Big Sinks Central Tank Battery
Incident Number NAPP2105535211
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 and soil sampling activities at the Poker Lake Unit (PLU) 28 Big Sinks Central Tank Battery (Site) in Unit F, Section 28, Township 25 South, Range 31 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water at the Site. Based on field observations, field screening activities, and soil sample analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NAPP2105535211.

RELEASE BACKGROUND

On February 13, 2021, a frozen ball valve split and caused fluids to release from a trunk line. Approximately 6.25 barrels (bbls) of produced water were released onto the caliche well pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 6.00 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on February 24, 2021. The release was assigned Incident Number NAPP2105535211.

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-04500) within 0.5 miles of the Site utilizing a truck-mounted hollow-stem auger rig. Soil boring C-04500 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 0.17 miles southeast of the release extent 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 intermittent stream, located approximately 5,626 feet 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, SOIL SAMPLING ACTIVITIES, AND ANALYTICAL RESULTS

On May 11, 2021, 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 three preliminary assessment soil samples (SS01 through SS03) within the release area from a depth of 0.5 feet bgs to assess for the presence or absence of soil impacts. 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 a pre-cleaned glass jar, 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 SS01 through SS03 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. To further evaluate for the presence or absence of impacted soil, additional vertical assessment activities were scheduled.

On May 25, 2021, WSP personnel returned to the Site to oversee additional soil assessment activities. Three boreholes (BH01 through BH03) were advanced using a hand auger to a depth of 1 foot bgs, at SS01 through SS03 preliminary soil sample locations. Delineation soil samples were collected from the boreholes at a depths of 1-foot bgs. Soil from the boreholes 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 the boreholes were logged on lithologic/soil sampling logs, which are included in Attachment 2. The borehole delineation soil sample locations are presented on Figure 3. The delineation 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.

Laboratory analytical results for the delineation soil samples collected from boreholes BH01 through BH03 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

Preliminary soil samples SS01 through SS03 and delineation soil samples BH01 through BH03 were collected from within the release extent from depths ranging from 0.5 feet to 1 foot bgs to assess for the presence or absence of soil impacts as a result of the February 13, 2021 produced water release. Laboratory analytical results for the preliminary and delineation soil samples indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Additionally, the release was vertically delineated to below the most stringent Table 1 Closure Criteria.

Based on initial response efforts, soil sample laboratory analytical results compliant with the Closure Criteria, and confirmed depth to groundwater greater than 100 feet bgs, no impacted soil was identified, and no excavation was required as a result of the produced water release. XTO respectfully requests NFA for Incident Number NAPP2105535211.

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

Sincerely,

WSP USA Inc.

Jeremy Hill
Environmental Scientist

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

cc: Adrian Baker, XTO
Bureau of Land Management

Attachments:

Figure 1	Site Location Map
Figure 2	Preliminary Soil Sample Locations
Figure 3	Delineation Soil Sample Locations
Table 1	Soil Analytical Results
Attachment 1	Well Record and Log
Attachment 2	Lithologic/Sampling Logs
Attachment 3	Photographic Log
Attachment 4	Laboratory Analytical Reports

FIGURES

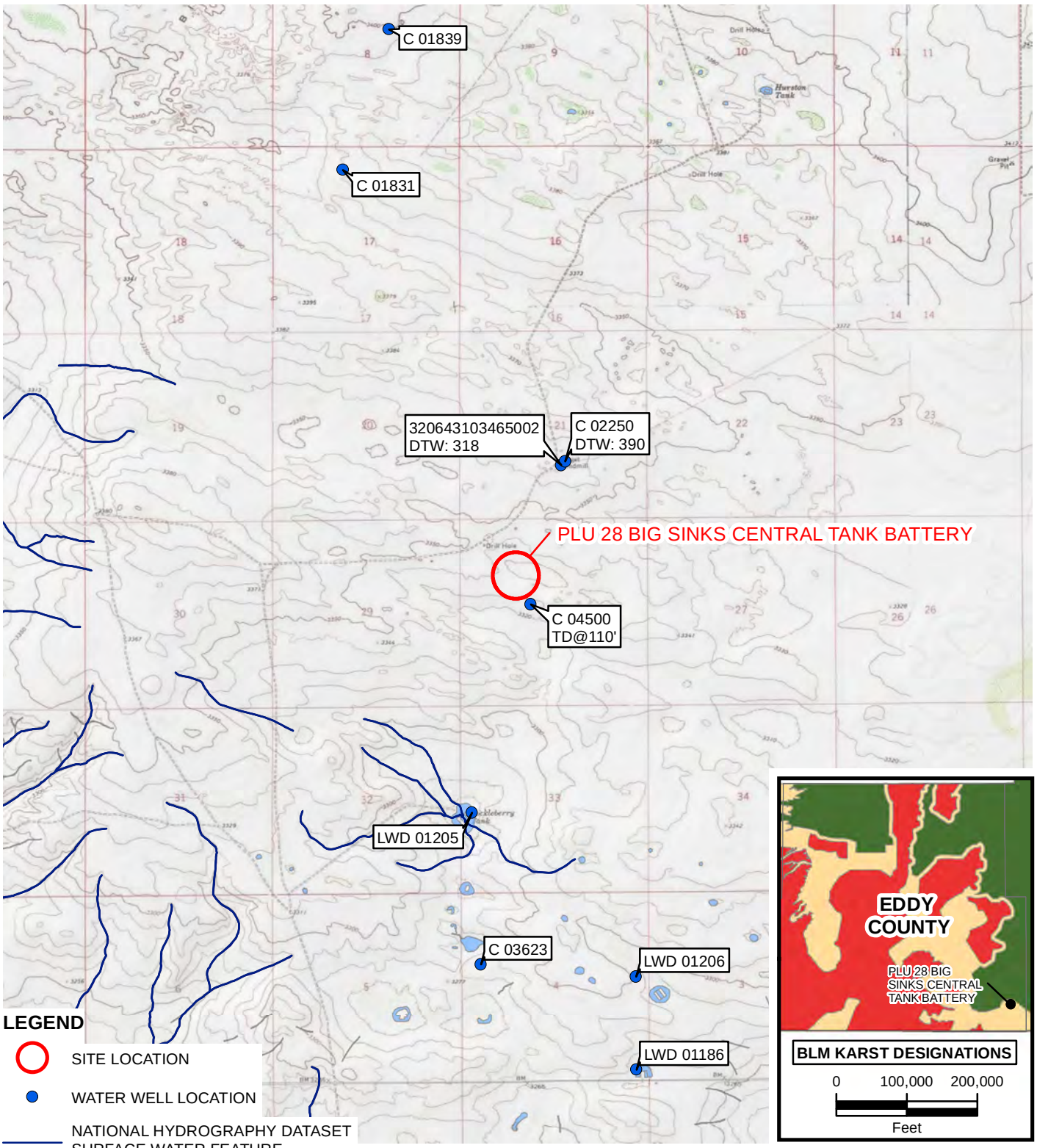

FIGURE 1
SITE LOCATION MAP
PLU 28 BIG SINKS CENTRAL TANK BATTERY
UNIT F SEC 28 T25S R31E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC

P:\XTO Energy\GIS\MXD\31403236.006.0129_PLU 28 BS CTB\31403236.006.0129_FIG01_SL_RECEPTOR_2021.mxd

IMAGE COURTESY OF ESRI

LEGEND

- RELEASE LOCATION
- PRELIMINARY SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- RELEASE EXTENT

0 50 100
Feet

N

NOTE: INCIDENT NUMBER nAPP2105535211
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

FIGURE 2
PRELIMINARY SOIL SAMPLE LOCATIONS
PLU 28 BIG SINKS CENTRAL TANK BATTERY
UNIT F SEC 28 T25S R31E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\31403236.006.0129_PLU 28 BS CTB\31403236.006.0129_FIG02_PRELIMINARY_2021.mxd

IMAGE COURTESY OF ESRI

LEGEND

- RELEASE LOCATION
- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- RELEASE EXTENT

0 50 100
Feet

N

NOTE: INCIDENT NUMBER nAPP2105535211
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

FIGURE 3
DELINEATION SOIL SAMPLE LOCATIONS
PLU 28 BIG SINKS CENTRAL TANK BATTERY
UNIT F SEC 28 T25S R31E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\31403236.006.0129_PLU 28 BS CTB\31403236.006.0129_FIG03_DELINEATION_2021.mxd

TABLES

Table 1

Soil Analytical Results
PLU 28 Big Sinks Central Tank Battery
NAPP2105535211
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	05/11/2021	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	666
SS02	05/11/2021	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	130
SS03	05/11/2021	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	742
Delineation Samples										
BH01	05/25/2021	1	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	34.3
BH02	05/25/2021	1	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	38.8
BH03	05/25/2021	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	237

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
Text impated soil was removed
* - 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: WELL RECORD AND LOG

Atkins
ENGINEERING ASSOCIATES INC.

2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
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,

Lucas Middleton

Enclosures: as noted above

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):

OSE DII ... 5 2021 PM ...

Version: September 8, 2009
Page 1 of 2

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0-10' Hydrated Bentonite	Approx.15.8 gallons	16 gallons	Augers	
	10'-110' Drill Cuttings	Approx. 172 gallons	172 gallons	Boring	

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

RECEIVED MAY 5 2021

III. SIGNATURE:

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins — Signature of Well Driller

05/05/2021 — 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:	CBJCHBCAABAAK9L5xmxdw4gebAaYJQQaFC_WD1hBxmhv

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

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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD1 (BH-01)	n/a	C-4500

WELL OWNER NAME(S)	PHONE (OPTIONAL)
XTO Energy (Kyle Littrell)	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
6401 Holiday Hill Dr.	Midland	TX	79707

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	6	6.96	N
	LONGITUDE	103	47	6.75	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* 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.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
03/24/2021	03/24/2021	temporary well material	110	n/a

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): n/a

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Hollow Stem Auger

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	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)
0	110	±6.5	Boring- HSA	--	--	--	--

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT

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) FROM	DEPTH (feet bgl) TO	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)
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	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

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:

Jack Atkins — Jackie D. Atkins — 05/05/2021

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

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_LWDwlbNSqlSjjUwKTERilqyesTFMr2Q

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

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USGS 320643103465002 25S.31E.21.413314A

Available data for this site SUMMARY OF ALL AVAILABLE DATA GO

Well Site

DESCRIPTION:

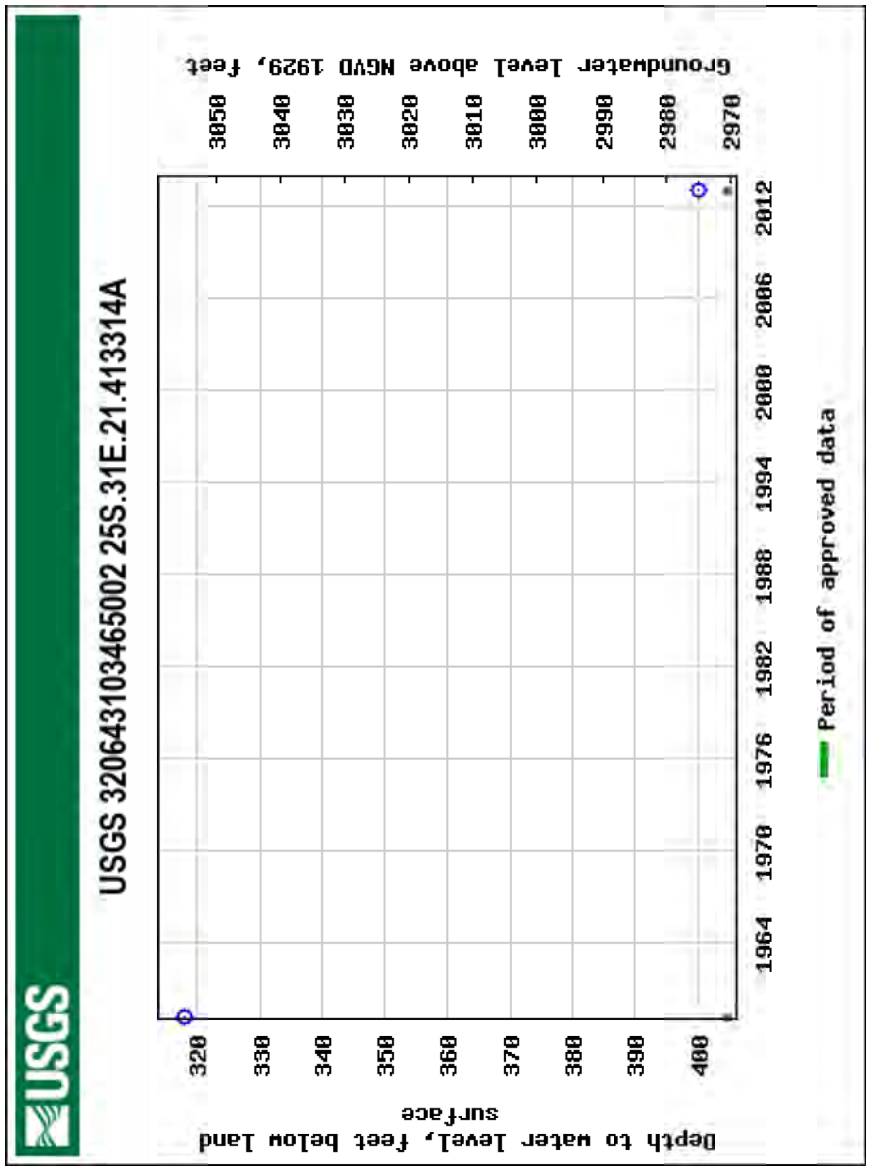
Latitude 32°06'46.0", Longitude 103°46'56.3" NAD83
Eddy County, New Mexico , Hydrologic Unit 13070001
Well depth: 400 feet
Land surface altitude: 3,374.00 feet above NGVD29.
Well completed in "Pecos River Basin alluvial aquifer" (N100PCSRVR) national aquifer.
Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1959-02-17	2013-01-17	2
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries


USGS
USGS 320643103465002 25S.31E.21.413314A
Depth to water level, feet below land surface
320
330
340
350
360
370
380
390
400
Groundwater level above NGVD 1929, feet
3050
3040
3030
3020
3010
3000
2990
2980
2970
1964
1970
1976
1982
1988
1994
2000
2006
2012
Period of approved data

ATTACHMENT 2: LITHOLOGIC/SAMPLING LOG

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH01	Date: 5/25/2021
Site Name:	PLU 28 Big Sinks CTB
RP or Incident Number:	NAPP2105535211
WSP Job Number:	31403236.006.0129

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: Will M.	Method: H. Auger		
Lat/Long: 32.13318, -103.92790	Field Screening: Hatch Chloride Strips, PID	Hole Diameter: 3"	Total Depth: 1.0'

Comments:
TD at 1.0 feet

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	95	1.7	N	BH01	1.0	1.0	CCHE	Poorly consolidated caliche, silty with some sand. No odor, no plasticity, Organics. Tan/Brown

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH02	Date: 5/25/2021
Site Name:	PLU 28 Big Sinks CTB
RP or Incident Number:	NAPP2105535211
WSP Job Number:	31403236.006.0129

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: Will M.	Method: H. Auger		
Lat/Long: 32.13318, -103.92790	Field Screening: Hatch Chloride Strips, PID	Hole Diameter: 3"	Total Depth: 1.0'

Comments:
TD at 1.0 feet

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	139	0.2	N	BH02	1.0	1.0	CCHE	Poorly consolidated caliche, silty with some sand. No odor, no plasticity, Organics. Tan/Brown

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH03	5/25/2021
Site Name:	PLU 28 Big Sinks CTB
RP or Incident Number:	NAPP2105535211
WSP Job Number:	31403236.006.0129

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: Will M.	Method: H. Auger

Lat/Long:	Field Screening:	Hole Diameter:	Total Depth:
32.13318, -103.92790	Hatch Chloride Strips, PID	3"	1.0'

Comments:
TD at 1.0 feet

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	212	0.1	N	BH03	1.0	1.0	CCHE	Poorly consolidated caliche, silty with some sand. No odor, no plasticity, Organics. Tan/Brown

ATTACHMENT 3: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG		
XTO Energy, Inc.	PLU 28 Big Sinks Central Tank Battery Eddy County, NM	NAPP2105535211

Photo No.	Date
1	May 11, 2021

View of release point to the southeast.

Photo No.	Date
2	May 11, 2021

View of BH02 location to the south.

ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-731-1
Laboratory Sample Delivery Group: 31403236.006.0129
Client Project/Site: PLU 28 BS CTB

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

Attn: Dan Moir

JKramer

Authorized for release by:
5/30/2021 1:13:45 PM

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

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 CTB

Laboratory Job ID: 890-731-1
SDG: 31403236.006.0129

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-731-1
Project/Site: PLU 28 BS CTB SDG: 31403236.006.0129

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
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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.
¤	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 CTB

Job ID: 890-731-1
SDG: 31403236.006.0129

Job ID: 890-731-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-731-1

Receipt
The samples were received on 5/25/2021 3:27 PM. 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 time was 4.8°C

Receipt Exceptions
The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: BH01 (890-731-1), BH02 (890-731-2) and BH03 (890-731-3).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: BH03 (890-731-3). 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 8015MOD_NM: Manual integration was performed on the following samples: BH01 (890-731-1), BH02 (890-731-2), (MB 880-3585/1-A) and (890-735-A-1-D). Manual integrations were performed in the Over C10-C28 hydrocarbon range and the Over C28-C36 hydrocarbon range due to false detections created by a baseline rise.

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

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

Client Sample Results

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

Job ID: 890-731-1
SDG: 31403236.006.0129

Client Sample ID: BH01

Lab Sample ID: 890-731-1
Matrix: Solid
Date Collected: 05/25/21 10:10
Date Received: 05/25/21 15:27
Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:00	05/27/21 21:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:00	05/27/21 21:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:00	05/27/21 21:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/27/21 12:00	05/27/21 21:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:00	05/27/21 21:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/27/21 12:00	05/27/21 21:36	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/27/21 12:00	05/27/21 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*05/27/21 12:00*	*05/27/21 21:36*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*05/27/21 12:00*	*05/27/21 21:36*	*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		05/27/21 14:14	05/28/21 21:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/27/21 14:14	05/28/21 21:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/27/21 14:14	05/28/21 21:58	1
Total TPH	<50.0	U	50.0		mg/Kg		05/27/21 14:14	05/28/21 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*05/27/21 14:14*	*05/28/21 21:58*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/27/21 14:14*	*05/28/21 21:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.3**		5.01		mg/Kg			05/28/21 12:42	1

Client Sample ID: BH02

Lab Sample ID: 890-731-2
Matrix: Solid
Date Collected: 05/25/21 10:15
Date Received: 05/25/21 15:27
Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:00	05/27/21 21:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:00	05/27/21 21:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:00	05/27/21 21:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/27/21 12:00	05/27/21 21:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:00	05/27/21 21:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/27/21 12:00	05/27/21 21:57	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/27/21 12:00	05/27/21 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*05/27/21 12:00*	*05/27/21 21:57*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/27/21 12:00*	*05/27/21 21:57*	*1*

Client Sample Results

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

Job ID: 890-731-1
SDG: 31403236.006.0129

Client Sample ID: BH02

Lab Sample ID: 890-731-2
Matrix: Solid
Date Collected: 05/25/21 10:15
Date Received: 05/25/21 15:27
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	<50.0	U	50.0		mg/Kg		05/27/21 14:14	05/28/21 22:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/27/21 14:14	05/28/21 22:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/27/21 14:14	05/28/21 22:20	1
Total TPH	<50.0	U	50.0		mg/Kg		05/27/21 14:14	05/28/21 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*05/27/21 14:14*	*05/28/21 22:20*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/27/21 14:14*	*05/28/21 22:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.8**		5.03		mg/Kg			05/28/21 12:57	1

Client Sample ID: BH03

Lab Sample ID: 890-731-3
Matrix: Solid
Date Collected: 05/25/21 10:21
Date Received: 05/25/21 15:27
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		05/27/21 12:00	05/27/21 22:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/27/21 12:00	05/27/21 22:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/27/21 12:00	05/27/21 22:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/27/21 12:00	05/27/21 22:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/27/21 12:00	05/27/21 22:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/27/21 12:00	05/27/21 22:17	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/27/21 12:00	05/27/21 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*05/27/21 12:00*	*05/27/21 22:17*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/27/21 12:00*	*05/27/21 22:17*	*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		05/27/21 14:14	05/28/21 22:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/27/21 14:14	05/28/21 22:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/27/21 14:14	05/28/21 22:41	1
Total TPH	<49.9	U	49.9		mg/Kg		05/27/21 14:14	05/28/21 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*05/27/21 14:14*	*05/28/21 22:41*	*1*
o-Terphenyl	*92*		*70 - 130*	*05/27/21 14:14*	*05/28/21 22:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**237**		4.97		mg/Kg			05/28/21 13:02	1

Surrogate Summary

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

Job ID: 890-731-1
SDG: 31403236.006.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-731-1	BH01	110	101										
890-731-2	BH02	120	100										
890-731-3	BH03	138 S1+	92										
LCS 880-3566/1-A	Lab Control Sample	108	96										
LCSD 880-3566/2-A	Lab Control Sample Dup	108	94										
MB 880-3566/5-A	Method Blank	109	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)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-731-1	BH01	97	95										
890-731-2	BH02	97	96										
890-731-3	BH03	94	92										
LCS 880-3585/3-A	Lab Control Sample	96	86										
MB 880-3585/1-A	Method Blank	96	91										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

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

Job ID: 890-731-1
SDG: 31403236.006.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3566/5-A
Matrix: Solid
Analysis Batch: 3568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3566

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/27/21 10:16	05/27/21 16:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/27/21 10:16	05/27/21 16:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/27/21 10:16	05/27/21 16:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/27/21 10:16	05/27/21 16:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/27/21 10:16	05/27/21 16:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/27/21 10:16	05/27/21 16:14	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/27/21 10:16	05/27/21 16:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*05/27/21 10:16*	*05/27/21 16:14*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/27/21 10:16*	*05/27/21 16:14*	*1*

Lab Sample ID: LCS 880-3566/1-A
Matrix: Solid
Analysis Batch: 3568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3566

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09632		mg/Kg		96	70 - 130		
Toluene			0.100	0.1167		mg/Kg		117	70 - 130		
Ethylbenzene			0.100	0.1190		mg/Kg		119	70 - 130		
m-Xylene & p-Xylene			0.200	0.2470		mg/Kg		123	70 - 130		
o-Xylene			0.100	0.1230		mg/Kg		123	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-3566/2-A
Matrix: Solid
Analysis Batch: 3568

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3566

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09201		mg/Kg		92	70 - 130	5	35
Toluene			0.100	0.1148		mg/Kg		115	70 - 130	2	35
Ethylbenzene			0.100	0.1166		mg/Kg		117	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2400		mg/Kg		120	70 - 130	3	35
o-Xylene			0.100	0.1191		mg/Kg		119	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

QC Sample Results

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

Job ID: 890-731-1
SDG: 31403236.006.0129

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

Lab Sample ID: MB 880-3585/1-A
Matrix: Solid
Analysis Batch: 3616

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3585

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		05/27/21 14:14	05/28/21 14:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/27/21 14:14	05/28/21 14:51	1
OII Range Organics (Over C28-C36)	107.7		50.0		mg/Kg		05/27/21 14:14	05/28/21 14:51	1
Total TPH	107.7		50.0		mg/Kg		05/27/21 14:14	05/28/21 14:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*05/27/21 14:14*	*05/28/21 14:51*	*1*
o-Terphenyl	*91*		*70 - 130*	*05/27/21 14:14*	*05/28/21 14:51*	*1*

Lab Sample ID: LCS 880-3585/3-A
Matrix: Solid
Analysis Batch: 3616

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3585

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	844.3		mg/Kg		84	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	892.1		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*86*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3529/1-A
Matrix: Solid
Analysis Batch: 3607

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			05/28/21 10:59	1

Lab Sample ID: LCS 880-3529/2-A
Matrix: Solid
Analysis Batch: 3607

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	243.8		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-3529/3-A
Matrix: Solid
Analysis Batch: 3607

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	243.7		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-731-1
Project/Site: PLU 28 BS CTB SDG: 31403236.006.0129

GC VOA

Prep Batch: 3566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-731-1	BH01	Total/NA	Solid	5035	
890-731-2	BH02	Total/NA	Solid	5035	
890-731-3	BH03	Total/NA	Solid	5035	
MB 880-3566/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3566/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3566/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-731-1	BH01	Total/NA	Solid	8021B	3566
890-731-2	BH02	Total/NA	Solid	8021B	3566
890-731-3	BH03	Total/NA	Solid	8021B	3566
MB 880-3566/5-A	Method Blank	Total/NA	Solid	8021B	3566
LCS 880-3566/1-A	Lab Control Sample	Total/NA	Solid	8021B	3566
LCSD 880-3566/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3566

GC Semi VOA

Prep Batch: 3585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-731-1	BH01	Total/NA	Solid	8015NM Prep	
890-731-2	BH02	Total/NA	Solid	8015NM Prep	
890-731-3	BH03	Total/NA	Solid	8015NM Prep	
MB 880-3585/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3585/3-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-731-1	BH01	Total/NA	Solid	8015B NM	3585
890-731-2	BH02	Total/NA	Solid	8015B NM	3585
890-731-3	BH03	Total/NA	Solid	8015B NM	3585
MB 880-3585/1-A	Method Blank	Total/NA	Solid	8015B NM	3585
LCS 880-3585/3-A	Lab Control Sample	Total/NA	Solid	8015B NM	3585

HPLC/IC

Leach Batch: 3529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-731-1	BH01	Soluble	Solid	DI Leach	
890-731-2	BH02	Soluble	Solid	DI Leach	
890-731-3	BH03	Soluble	Solid	DI Leach	
MB 880-3529/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3529/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3529/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 3607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-731-1	BH01	Soluble	Solid	300.0	3529
890-731-2	BH02	Soluble	Solid	300.0	3529
890-731-3	BH03	Soluble	Solid	300.0	3529
MB 880-3529/1-A	Method Blank	Soluble	Solid	300.0	3529
LCS 880-3529/2-A	Lab Control Sample	Soluble	Solid	300.0	3529

QC Association Summary

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

Job ID: 890-731-1
SDG: 31403236.006.0129

HPLC/IC (Continued)

Analysis Batch: 3607 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-3529/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3529

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-731-1
Project/Site: PLU 28 BS CTB SDG: 31403236.006.0129

Client Sample ID: BH01 Lab Sample ID: 890-731-1

Date Collected: 05/25/21 10:10 **Matrix: Solid**
Date Received: 05/25/21 15:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3566	05/27/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	3568	05/27/21 21:36	KL	XEN MID
Total/NA	Prep	8015NM Prep			3585	05/27/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3616	05/28/21 21:58	AJ	XEN MID
Soluble	Leach	DI Leach			3529	05/26/21 10:59	CH	XEN MID
Soluble	Analysis	300.0		1	3607	05/28/21 12:42	SC	XEN MID

Client Sample ID: BH02 Lab Sample ID: 890-731-2

Date Collected: 05/25/21 10:15 **Matrix: Solid**
Date Received: 05/25/21 15:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3566	05/27/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	3568	05/27/21 21:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			3585	05/27/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3616	05/28/21 22:20	AJ	XEN MID
Soluble	Leach	DI Leach			3529	05/26/21 10:59	CH	XEN MID
Soluble	Analysis	300.0		1	3607	05/28/21 12:57	SC	XEN MID

Client Sample ID: BH03 Lab Sample ID: 890-731-3

Date Collected: 05/25/21 10:21 **Matrix: Solid**
Date Received: 05/25/21 15:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3566	05/27/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	3568	05/27/21 22:17	KL	XEN MID
Total/NA	Prep	8015NM Prep			3585	05/27/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3616	05/28/21 22:41	AJ	XEN MID
Soluble	Leach	DI Leach			3529	05/26/21 10:59	CH	XEN MID
Soluble	Analysis	300.0		1	3607	05/28/21 13:02	SC	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 CTB

Job ID: 890-731-1
SDG: 31403236.006.0129

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 CTB

Job ID: 890-731-1
SDG: 31403236.006.0129

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 CTB

Job ID: 890-731-1
SDG: 31403236.006.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-731-1	BH01	Solid	05/25/21 10:10	05/25/21 15:27	- 1
890-731-2	BH02	Solid	05/25/21 10:15	05/25/21 15:27	- 1
890-731-3	BH03	Solid	05/25/21 10:21	05/25/21 15:27	- 1

Chain of Custody

Work Order No: _____

XENCO LABORATORIES

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
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

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5/30/2021

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	WSP USA Inc., Permian office	Company Name:	XTO Energy, Inc.
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	
Phone:	(432) 236-3849	Email:	will.mather@wsp.com, dan.moir@wsp.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU 28 BS CTB	Turn Around	
Project Number:	31403236.006.0129	Routine	☑
P.O. Number:	Eddy	Rush:	
Sampler's Name:	William Mather	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	5.0/4.8	Thermometer ID	IWM007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	

ANALYSIS REQUEST

Work Order Notes

Incident #: nAPP2105535211
Cost Center: 2191861001

890-731 Chain of Custody

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
BH01	s	5/25/2021	10:10	1'	1	x	x	x	Discrete
BH02	s	5/25/2021	10:15	1'	1	x	x	x	Discrete
BH03	s	5/25/2021	10:21	1'	1	x	x	x	Discrete

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U ~~1631 / 245.1 / 7470 / 7471~~ : Hg

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			5.25.21 1527			
3				4		
5				6		

Revised Date 051418 Rev 2018.1

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-241 1
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica kramer@eurofinset com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-731-1
Address: 1211 W Florida Ave	Due Date Requested: 6/1/2021			
City: Midland	TAT Requested (days):			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: PLU 28 BS CTB	Project #: 89000004			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL, B NaOH, C Zn Acetate, D - Nitric Acid, E - NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L - EDA, M Hexane, N - None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
BH01 (890-731-1)	5/25/21	10 10 Mountain		Solid			X	X	X	1	
BH02 (890-731-2)	5/25/21	10 15 Mountain		Solid			X	X	X	1	
BH03 (890-731-3)	5/25/21	10 21 Mountain		Solid			X	X	X	1	

Note. Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out 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 analysis/tests/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 complicance to Eurofins Xenco LLC

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II, III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Clive Cuffo 5.26.21			Received by:	Date/Time: 5/27/21 1033	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver 11/01/2020

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-731-1
SDG Number: 31403236.006.0129

Login Number: 731
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: 890-731-1
SDG Number: 31403236.006.0129

Login Number: 731
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland
List Creation: 05/27/21 11:06 AM

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?	N/A	
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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-656-1
Laboratory Sample Delivery Group: 31403236.006.0129
Client Project/Site: PLU 28 BS CTB

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

Attn: Dan Moir

Authorized for release by:
5/13/2021 12:13:02 PM

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

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 CTB

Laboratory Job ID: 890-656-1
SDG: 31403236.006.0129

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-656-1
Project/Site: PLU 28 BS CTB SDG: 31403236.006.0129

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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.
¤	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 CTB

Job ID: 890-656-1
SDG: 31403236.006.0129

Job ID: 890-656-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-656-1

Receipt
The samples were received on 5/11/2021 3:19 PM. 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 time was 2.8°C

Receipt Exceptions
The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: SS01 (890-656-1), SS02 (890-656-2) and SS03 (890-656-3).

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

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

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

Client Sample Results

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

Job ID: 890-656-1
SDG: 31403236.006.0129

Client Sample ID: SS01

Lab Sample ID: 890-656-1
Matrix: Solid
Date Collected: 05/11/21 11:37
Date Received: 05/11/21 15:19
Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/12/21 13:07	05/12/21 21:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/12/21 13:07	05/12/21 21:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/12/21 13:07	05/12/21 21:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/12/21 13:07	05/12/21 21:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/12/21 13:07	05/12/21 21:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/12/21 13:07	05/12/21 21:17	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		05/12/21 13:07	05/12/21 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/12/21 13:07*	*05/12/21 21:17*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*05/12/21 13:07*	*05/12/21 21:17*	*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		05/11/21 16:30	05/12/21 20:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/11/21 16:30	05/12/21 20:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/11/21 16:30	05/12/21 20:40	1
Total TPH	<49.9	U	49.9		mg/Kg		05/11/21 16:30	05/12/21 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*05/11/21 16:30*	*05/12/21 20:40*	*1*
o-Terphenyl	*123*		*70 - 130*	*05/11/21 16:30*	*05/12/21 20:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**666**		24.8		mg/Kg			05/12/21 20:24	5

Client Sample ID: SS02

Lab Sample ID: 890-656-2
Matrix: Solid
Date Collected: 05/11/21 11:40
Date Received: 05/11/21 15:19
Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/12/21 13:07	05/12/21 21:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/12/21 13:07	05/12/21 21:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/12/21 13:07	05/12/21 21:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/12/21 13:07	05/12/21 21:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/12/21 13:07	05/12/21 21:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/12/21 13:07	05/12/21 21:37	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/12/21 13:07	05/12/21 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/12/21 13:07*	*05/12/21 21:37*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/12/21 13:07*	*05/12/21 21:37*	*1*

Client Sample Results

Client: WSP USA Inc. Job ID: 890-656-1
Project/Site: PLU 28 BS CTB SDG: 31403236.006.0129

Client Sample ID: SS02 Lab Sample ID: 890-656-2

Date Collected: 05/11/21 11:40 **Matrix: Solid**
Date Received: 05/11/21 15:19
Sample Depth: - 0.5

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		05/12/21 16:30	05/12/21 19:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/12/21 16:30	05/12/21 19:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/12/21 16:30	05/12/21 19:04	1
Total TPH	<49.9	U	49.9		mg/Kg		05/12/21 16:30	05/12/21 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*05/12/21 16:30*	*05/12/21 19:04*	*1*
o-Terphenyl	*100*		*70 - 130*	*05/12/21 16:30*	*05/12/21 19:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		24.8		mg/Kg			05/12/21 20:29	5

Client Sample ID: SS03 Lab Sample ID: 890-656-3

Date Collected: 05/11/21 11:43 **Matrix: Solid**
Date Received: 05/11/21 15:19
Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/12/21 13:07	05/12/21 21:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/12/21 13:07	05/12/21 21:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/12/21 13:07	05/12/21 21:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/12/21 13:07	05/12/21 21:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/12/21 13:07	05/12/21 21:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/12/21 13:07	05/12/21 21:57	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/12/21 13:07	05/12/21 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*05/12/21 13:07*	*05/12/21 21:57*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/12/21 13:07*	*05/12/21 21:57*	*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	<49.9	U	49.9		mg/Kg		05/12/21 16:30	05/12/21 19:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/12/21 16:30	05/12/21 19:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/12/21 16:30	05/12/21 19:04	1
Total TPH	<49.9	U	49.9		mg/Kg		05/12/21 16:30	05/12/21 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*05/12/21 16:30*	*05/12/21 19:04*	*1*
o-Terphenyl	*105*		*70 - 130*	*05/12/21 16:30*	*05/12/21 19:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**742**		25.0		mg/Kg			05/12/21 20:34	5

Surrogate Summary

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

Job ID: 890-656-1
SDG: 31403236.006.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-656-1	SS01	104	101										
890-656-2	SS02	104	100										
890-656-3	SS03	103	100										
LCS 880-3028/1-A	Lab Control Sample	106	107										
LCSD 880-3028/2-A	Lab Control Sample Dup	107	105										
MB 880-3028/5-A	Method Blank	91	94										

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)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-656-1	SS01	105	123										
890-656-2	SS02	89	100										
890-656-3	SS03	106	105										
LCS 880-2989/2-A	Lab Control Sample	105	107										
LCS 880-3008/2-A	Lab Control Sample	111	110										
LCS 880-3010/2-A	Lab Control Sample	115	127										
LCSD 880-2989/3-A	Lab Control Sample Dup	108	113										
LCSD 880-3008/3-A	Lab Control Sample Dup	115	110										
LCSD 880-3010/3-A	Lab Control Sample Dup	98	106										
MB 880-2989/1-A	Method Blank	106	126										
MB 880-3008/1-A	Method Blank	106	111										
MB 880-3010/1-A	Method Blank	90	103										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

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

Job ID: 890-656-1
SDG: 31403236.006.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3028/5-A
Matrix: Solid
Analysis Batch: 3029

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3028

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/12/21 13:07	05/12/21 16:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/12/21 13:07	05/12/21 16:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/12/21 13:07	05/12/21 16:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/12/21 13:07	05/12/21 16:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/12/21 13:07	05/12/21 16:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/12/21 13:07	05/12/21 16:30	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/12/21 13:07	05/12/21 16:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/12/21 13:07*	*05/12/21 16:30*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/12/21 13:07*	*05/12/21 16:30*	*1*

Lab Sample ID: LCS 880-3028/1-A
Matrix: Solid
Analysis Batch: 3029

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3028

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09171		mg/Kg		92	70 - 130		
Toluene			0.100	0.08739		mg/Kg		87	70 - 130		
Ethylbenzene			0.100	0.09124		mg/Kg		91	70 - 130		
m-Xylene & p-Xylene			0.200	0.1943		mg/Kg		97	70 - 130		
o-Xylene			0.100	0.1021		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 880-3028/2-A
Matrix: Solid
Analysis Batch: 3029

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3028

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1011		mg/Kg		101	70 - 130	10	35
Toluene			0.100	0.09671		mg/Kg		97	70 - 130	10	35
Ethylbenzene			0.100	0.1028		mg/Kg		103	70 - 130	12	35
m-Xylene & p-Xylene			0.200	0.2190		mg/Kg		109	70 - 130	12	35
o-Xylene			0.100	0.1134		mg/Kg		113	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

QC Sample Results

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

Job ID: 890-656-1
SDG: 31403236.006.0129

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

Lab Sample ID: MB 880-2989/1-A
Matrix: Solid
Analysis Batch: 3000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2989

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		05/11/21 15:50	05/12/21 11:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/11/21 15:50	05/12/21 11:45	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/11/21 15:50	05/12/21 11:45	1
Total TPH	<50.0	U	50.0		mg/Kg		05/11/21 15:50	05/12/21 11:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*05/11/21 15:50*	*05/12/21 11:45*	*1*
o-Terphenyl	*126*		*70 - 130*	*05/11/21 15:50*	*05/12/21 11:45*	*1*

Lab Sample ID: LCS 880-2989/2-A
Matrix: Solid
Analysis Batch: 3000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2989

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	878.4		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1140		mg/Kg		114	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: LCSD 880-2989/3-A
Matrix: Solid
Analysis Batch: 3000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2989

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	843.5		mg/Kg		84	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1203		mg/Kg		120	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*108*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Lab Sample ID: MB 880-3008/1-A
Matrix: Solid
Analysis Batch: 3004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3008

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		05/12/21 07:52	05/12/21 10:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/12/21 07:52	05/12/21 10:29	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/12/21 07:52	05/12/21 10:29	1
Total TPH	<50.0	U	50.0		mg/Kg		05/12/21 07:52	05/12/21 10:29	1

QC Sample Results

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

Job ID: 890-656-1
SDG: 31403236.006.0129

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	05/12/21 07:52	05/12/21 10:29	1
o-Terphenyl	111		70 - 130	05/12/21 07:52	05/12/21 10:29	1

Lab Sample ID: LCS 880-3008/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 3004 — **Prep Batch: 3008**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	963.8		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1152		mg/Kg		115	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: LCSD 880-3008/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 3004 — **Prep Batch: 3008**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	996.0		mg/Kg		100	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1142		mg/Kg		114	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: MB 880-3010/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 3006 — **Prep Batch: 3010**

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		05/12/21 08:24	05/12/21 10:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/12/21 08:24	05/12/21 10:29	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/12/21 08:24	05/12/21 10:29	1
Total TPH	<50.0	U	50.0		mg/Kg		05/12/21 08:24	05/12/21 10:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	05/12/21 08:24	05/12/21 10:29	1
o-Terphenyl	103		70 - 130	05/12/21 08:24	05/12/21 10:29	1

QC Sample Results

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

Job ID: 890-656-1
SDG: 31403236.006.0129

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

Lab Sample ID: LCS 880-3010/2-A
Matrix: Solid
Analysis Batch: 3006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3010

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	917.5		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1080		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*115*		*70 - 130*
o-Terphenyl	*127*		*70 - 130*

Lab Sample ID: LCSD 880-3010/3-A
Matrix: Solid
Analysis Batch: 3006

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3010

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	803.6		mg/Kg		80	70 - 130	13	20
Diesel Range Organics (Over C10-C28)			1000	1044		mg/Kg		104	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*106*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3018/1-A
Matrix: Solid
Analysis Batch: 3048

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			05/12/21 19:21	1

Lab Sample ID: LCS 880-3018/2-A
Matrix: Solid
Analysis Batch: 3048

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	247.5		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-3018/3-A
Matrix: Solid
Analysis Batch: 3048

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	244.0		mg/Kg		98	90 - 110	1	20

QC Association Summary

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

Job ID: 890-656-1
SDG: 31403236.006.0129

GC VOA

Prep Batch: 3028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-656-1	SS01	Total/NA	Solid	5035	
890-656-2	SS02	Total/NA	Solid	5035	
890-656-3	SS03	Total/NA	Solid	5035	
MB 880-3028/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3028/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3028/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-656-1	SS01	Total/NA	Solid	8021B	3028
890-656-2	SS02	Total/NA	Solid	8021B	3028
890-656-3	SS03	Total/NA	Solid	8021B	3028
MB 880-3028/5-A	Method Blank	Total/NA	Solid	8021B	3028
LCS 880-3028/1-A	Lab Control Sample	Total/NA	Solid	8021B	3028
LCSD 880-3028/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3028

GC Semi VOA

Prep Batch: 2989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-656-1	SS01	Total/NA	Solid	8015NM Prep	
MB 880-2989/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2989/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2989/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-656-1	SS01	Total/NA	Solid	8015B NM	2989
MB 880-2989/1-A	Method Blank	Total/NA	Solid	8015B NM	2989
LCS 880-2989/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2989
LCSD 880-2989/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2989

Analysis Batch: 3004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-656-3	SS03	Total/NA	Solid	8015B NM	3008
MB 880-3008/1-A	Method Blank	Total/NA	Solid	8015B NM	3008
LCS 880-3008/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3008
LCSD 880-3008/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3008

Analysis Batch: 3006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-656-2	SS02	Total/NA	Solid	8015B NM	3010
MB 880-3010/1-A	Method Blank	Total/NA	Solid	8015B NM	3010
LCS 880-3010/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3010
LCSD 880-3010/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3010

Prep Batch: 3008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-656-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-3008/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3008/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-656-1
Project/Site: PLU 28 BS CTB SDG: 31403236.006.0129

GC Semi VOA (Continued)

Prep Batch: 3008 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-3008/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 3010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-656-2	SS02	Total/NA	Solid	8015NM Prep	
MB 880-3010/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3010/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3010/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 3018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-656-1	SS01	Soluble	Solid	DI Leach	
890-656-2	SS02	Soluble	Solid	DI Leach	
890-656-3	SS03	Soluble	Solid	DI Leach	
MB 880-3018/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3018/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3018/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 3048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-656-1	SS01	Soluble	Solid	300.0	3018
890-656-2	SS02	Soluble	Solid	300.0	3018
890-656-3	SS03	Soluble	Solid	300.0	3018
MB 880-3018/1-A	Method Blank	Soluble	Solid	300.0	3018
LCS 880-3018/2-A	Lab Control Sample	Soluble	Solid	300.0	3018
LCSD 880-3018/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3018

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-656-1
Project/Site: PLU 28 BS CTB SDG: 31403236.006.0129

Client Sample ID: SS01 Lab Sample ID: 890-656-1

Date Collected: 05/11/21 11:37 **Matrix: Solid**
Date Received: 05/11/21 15:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3028	05/12/21 13:07	KL	XM
Total/NA	Analysis	8021B		1	3029	05/12/21 21:17	KL	XM
Total/NA	Prep	8015NM Prep			2989	05/11/21 16:30	AM	XM
Total/NA	Analysis	8015B NM		1	3000	05/12/21 20:40	AJ	XM
Soluble	Leach	DI Leach			3018	05/12/21 09:43	SC	XM
Soluble	Analysis	300.0		5	3048	05/12/21 20:24	CH	XM

Client Sample ID: SS02 Lab Sample ID: 890-656-2

Date Collected: 05/11/21 11:40 **Matrix: Solid**
Date Received: 05/11/21 15:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3028	05/12/21 13:07	KL	XM
Total/NA	Analysis	8021B		1	3029	05/12/21 21:37	KL	XM
Total/NA	Prep	8015NM Prep			3010	05/12/21 16:30	DM	XM
Total/NA	Analysis	8015B NM		1	3006	05/12/21 19:04	AJ	XM
Soluble	Leach	DI Leach			3018	05/12/21 09:43	SC	XM
Soluble	Analysis	300.0		5	3048	05/12/21 20:29	CH	XM

Client Sample ID: SS03 Lab Sample ID: 890-656-3

Date Collected: 05/11/21 11:43 **Matrix: Solid**
Date Received: 05/11/21 15:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3028	05/12/21 13:07	KL	XM
Total/NA	Analysis	8021B		1	3029	05/12/21 21:57	KL	XM
Total/NA	Prep	8015NM Prep			3008	05/12/21 16:30	AM	XM
Total/NA	Analysis	8015B NM		1	3004	05/12/21 19:04	AJ	XM
Soluble	Leach	DI Leach			3018	05/12/21 09:43	SC	XM
Soluble	Analysis	300.0		5	3048	05/12/21 20:34	CH	XM

Laboratory References:

XM = 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 CTB

Job ID: 890-656-1
SDG: 31403236.006.0129

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 CTB

Job ID: 890-656-1
SDG: 31403236.006.0129

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

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:

XM = 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 CTB

Job ID: 890-656-1
SDG: 31403236.006.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-656-1	SS01	Solid	05/11/21 11:37	05/11/21 15:19	- 0.5
890-656-2	SS02	Solid	05/11/21 11:40	05/11/21 15:19	- 0.5
890-656-3	SS03	Solid	05/11/21 11:43	05/11/21 15:19	- 0.5

Chain of Custody

XENCO LABORATORIES

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
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

Work Order No: _____

www.xenco.com Page 1 of 1

5/13/2021

Project Manager:	Korey Kennedy	Bill to: (if different)	Kyle Littrell
Company Name:	WSP USA Inc.	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	432.236.3849	Email:	luis.delval@wsp.com; korey.kennedy@wsp.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU 28 BS CTB	Turn Around	
Project Number:	31403236.006.0129	Routine	☒
P.O. Number:	CC: 2191861001	Rush:	
Sampler's Name:	Luis Del Val	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	3.0 / 2.8	Thermometer ID		
Received Intact:	(Yes) No	T-NM-007		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
SS01	S	5/11/2021	1137	0.5'	1	X	X	X
SS02	S	5/11/2021	1140	0.5'	1	X	X	X
SS03	S	5/11/2021	1143	0.5'	1	X	X	X

890-656 Chain of Custody

Work Order Notes

API: 30-015-47809
Incident #: NAPP2105535211

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

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		5.11.21 / 13:19	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-656-1
SDG Number: 31403236.006.0129

Login Number: 656
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins 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: 890-656-1
SDG Number: 31403236.006.0129

Login Number: 656
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Midland
List Creation: 05/12/21 03:36 PM

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	

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 39660

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 39660
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2105535211 PLU 28 BIG SINKS CTB, thank you. This closure is approved.	11/3/2021