

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	NAPP2134945825
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Shelby Pennington	Contact Telephone 281-723-9353
Contact email shelby.g.pennington@exxonmobil.com	Incident # (assigned by OCD)
Contact mailing address 6401 Holiday Hill Rd Bldg 5, Midland, Texas, 79707	

Location of Release Source

Latitude 32.12400 Longitude -103.89590
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Pierce Canyon 17	Site Type Tank Battery
Date Release Discovered 12/12/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
P	17	25S	30E	Eddy

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) .05	Volume Recovered (bbls) 0.0
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

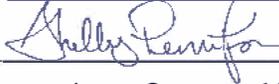
Cause of Release Pressure valve malfunctioned, causing fluid to release from flare and ignite. Flames extinguished upon reaching the ground. A third-party contractor has been retained for remediation purposes.

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? A release that results in a fire or is the result of a fire.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Adrian Baker to Mike Bratcher and Robert Hamlet on 12/13/2021 3:12 pm via email.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 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: <u>Shelby Pennington</u>	Title: <u>Environmental Manager</u>
Signature: <u></u>	Date: <u>12/15/21</u>
email: <u>shelby.g.pennington@exxonmobil.com</u>	Telephone: <u>281-723-9353</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>12/20/2021</u>

NAPP2134945825

Location:	Pierce Canyon 17 Tank Battery	
Spill Date:	12/12/2021	
Area 1		
Approximate Area =	405.00	sq. ft.
Average Saturation (or depth) of spill =	0.25	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Condensate =	0.05	bbls
Total Produced Water =	0.00	bbls
TOTAL VOLUME OF LEAK		
Total Condensate=	0.05	bbls
Total Produced Water =	0.00	bbls
TOTAL VOLUME RECOVERED		
Total Condensate=	0.00	bbls
Total Produced Water =	0.00	bbls

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 67249

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 67249
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	12/20/2021

Incident ID	NAPP2134945825
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	> 100 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

<p>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. <input checked="" type="checkbox"/> Field data <input checked="" type="checkbox"/> Data table of soil contaminant concentration data <input checked="" type="checkbox"/> Depth to water determination <input checked="" type="checkbox"/> Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release <input checked="" type="checkbox"/> Boring or excavation logs <input checked="" type="checkbox"/> Photographs including date and GIS information <input checked="" type="checkbox"/> Topographic/Aerial maps <input checked="" type="checkbox"/> 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

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

Printed Name: _____ Adrian Baker _____ Title: _____ Environmental Coordinator _____



Signature: _____ Date: _____ 03/11/2022 _____

Email: _____ adrian.baker@exxonmobil.com _____ Telephone: _____ (432)-236-3808 _____

OCD Only

Received by: _____ Date: _____

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Facility ID	
Application ID	

Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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

Printed Name: _____ Adrian Baker _____ Title: _____ Environmental Coordinator _____

Signature: Adrian Baker _____ Date: _____ 03/11/2022 _____

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: Jennifer Nobui _____ Date: 03/22/2022 _____

Printed Name: _____ Jennifer Nobui _____ Title: _____ Environmental Specialist A _____



WSP USA

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

March 11, 2022

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

**RE: Closure Request
Pierce Canyon 17
Incident Number NAPP2134945825
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 Pierce Canyon 17 (Site) in Unit P, Section 17, Township 25 South, Range 30 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 small condensate release and flare fire at the Site. Based on the site assessment activities and laboratory analytical results from the soil sampling events, XTO is submitting this Closure Request, and requesting no further action (NFA) for Incident Number NAPP2134945825.

RELEASE BACKGROUND

On December 12, 2021, a pressure valve malfunction caused approximately 0.05 bbls of condensate to release from the flare, which resulted in a small fire. The fire extinguished itself on the ground and there were no fluids to recover. XTO reported the release via email to the New Mexico Oil Conservation Division (NMOCD) on December 13, 2021, and submitted a Release Notification Form C-141 (Form C-141) on December 15, 2021. The release was assigned Incident Number NAPP2134945825.

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 estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted water well is United States Geological Survey (USGS) well 320628103533001, located approximately 1.08 miles south of the Site. The groundwater well has a reported depth to groundwater of 264.6 feet bgs and a total depth of 288 feet bgs. Ground surface elevation at the well location is 3,207 feet above mean sea level (amsl), which is approximately 2,219 feet higher in elevation than the Site.



All wells used for depth to groundwater determination are depicted on Figure 1. The referenced well records are included in Attachment 1.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 2,996 feet southeast 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 (low 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 AND DELINEATION ACTIVITIES

On February 22, 2022, WSP personnel were at the Site to evaluate the release extent based on information provided on the Form C-141, visual observations, and information provided by on-site XTO personnel. Two potholes were advanced to a depth of 2 feet bgs within the release extent, to assess for the presence or absence of impacted soil. Two delineation samples (SS01/SS01A and SS02/SS02A) were collected from each pothole at depths of 0.5 feet and 2 feet bgs, respectively. The delineation soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for the pothole delineation samples were logged on lithologic/soil sampling logs, which are included in Attachment 2. Field screening results indicated no impacts to soil; however, surficial staining from the fire was scraped up and removed from the Site. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Attachment 3.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were



transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS01/SS01A and SS02/SS02A indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

CLOSURE REQUEST

Site assessment and delineation soil sampling activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the December 12, 2021, condensate release and flare fire. Laboratory analytical results for the soil samples collected within the release extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. Based on the soil sample analytical results, no impacted soil was identified, and no further remediation was required. As such, XTO respectfully requests no further action for Incident Number NAPP2134945825.

If you have any questions or comments, please do not hesitate to contact Ms. Aimee Cole at (720) 384-7365.

Sincerely,

WSP USA Inc.

A handwritten signature in black ink that reads "Nihaar Katoch".

Nihaar Katoch
Assistant Consultant, Geologist

A handwritten signature in black ink that reads "Aimee Cole".

Aimee Cole
Senior Consultant, Environmental Scientist

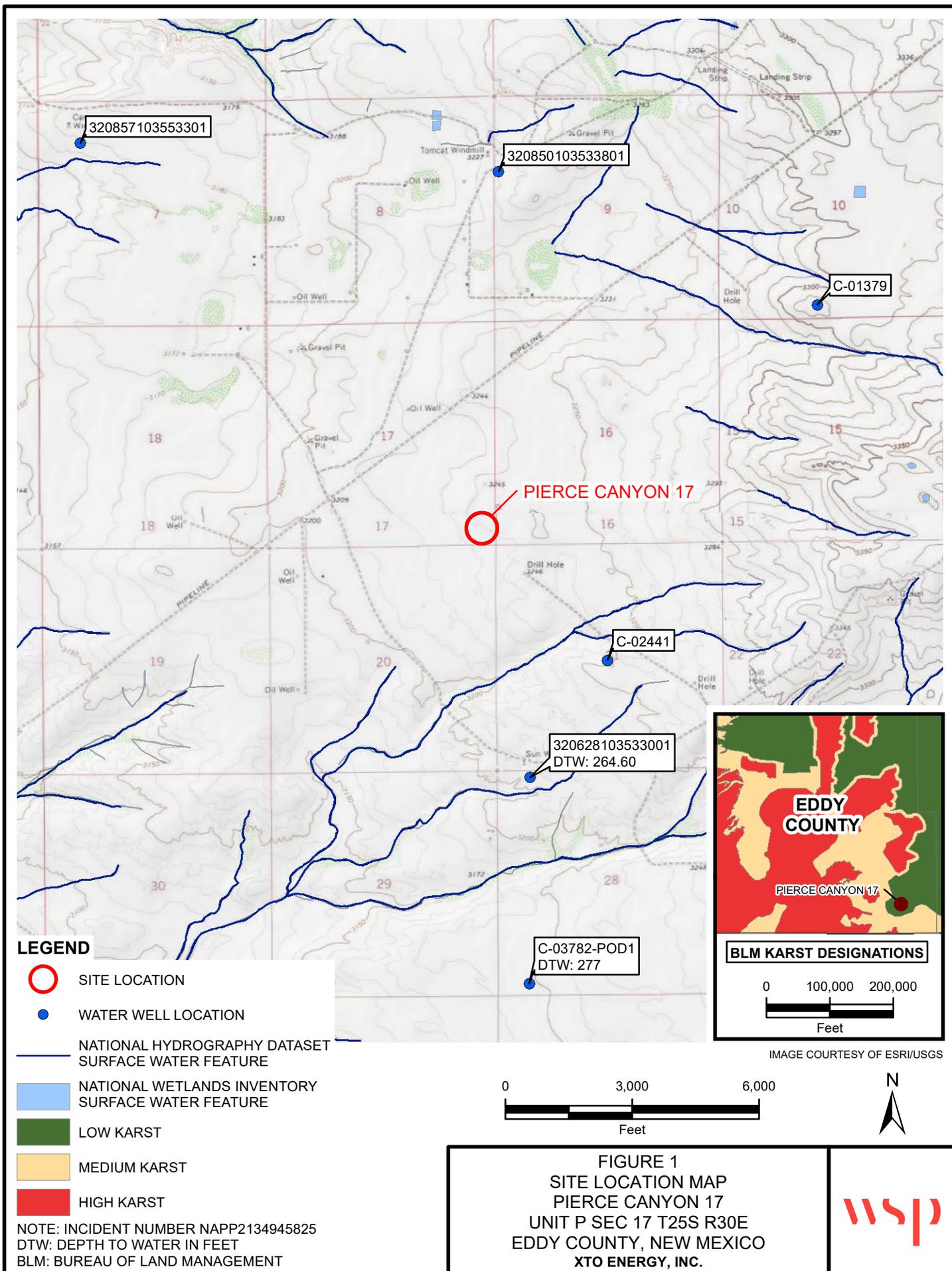


cc: Shelby Pennington, XTO
Adrian Baker, XTO
Bureau of Land Management

Attachments:

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

FIGURES



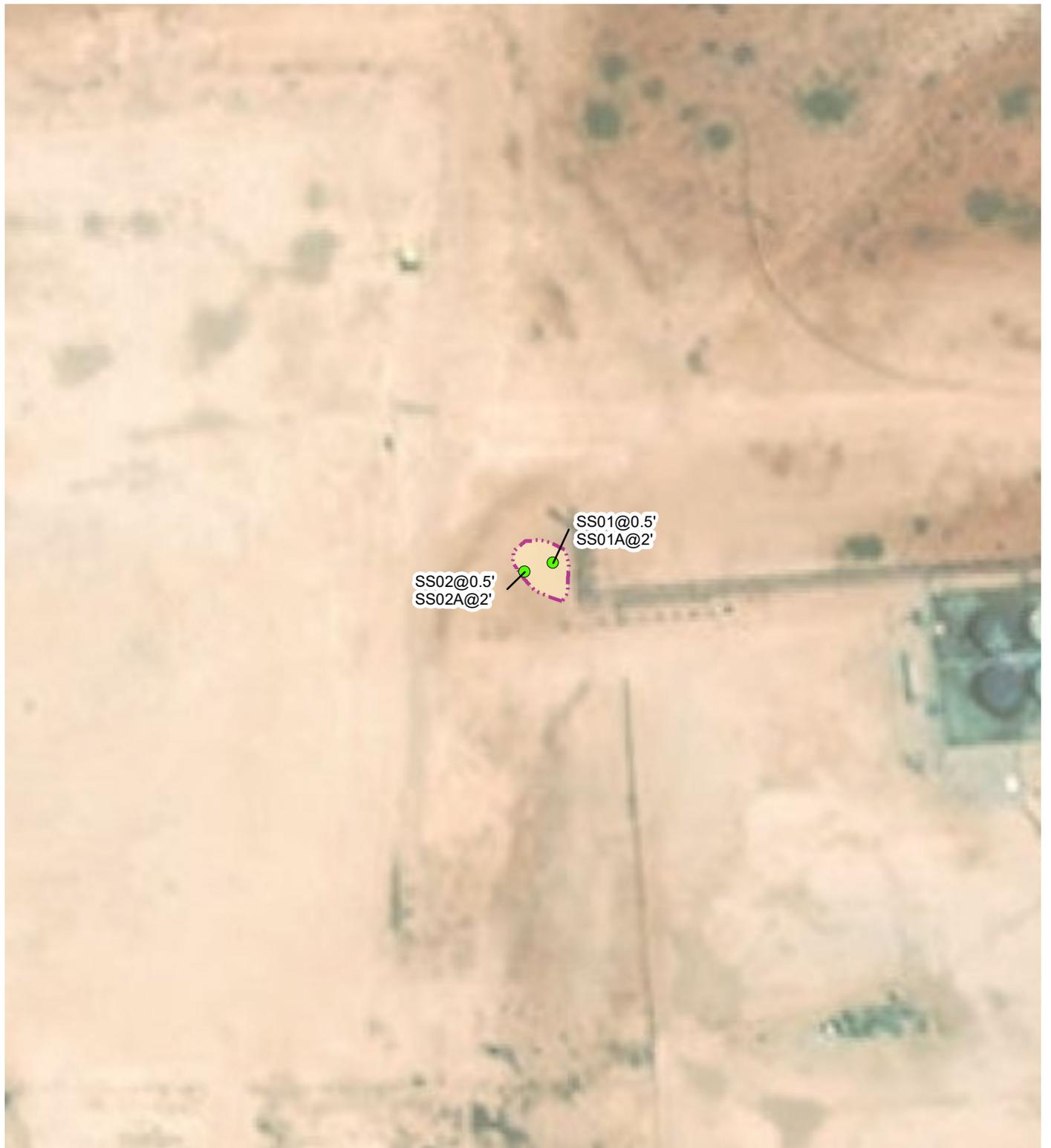
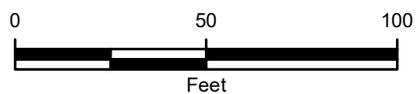


IMAGE COURTESY OF ESRI

LEGEND

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



NOTE: INCIDENT NUMBER NAPP2134945825
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

FIGURE 2
 DELINEATION SOIL SAMPLE LOCATIONS
 PIERCE CANYON 17
 UNIT P SEC 17 T25S R30E
 EDDY COUNTY, NEW MEXICO
 XTO ENERGY, INC.



TABLES

Table 1
Soil Analytical Results
Pierce Canyon 17
Incident Number NAPP2134945825
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
Delineation Soil Samples										
SS01	2/22/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	74.1
SS01A	2/22/2022	2	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	149
SS02	2/22/2022	0.5	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	229
SS02A	2/22/2022	2	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	143

Notes:

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

ATTACHMENT 1: REFERENCED WELL RECORDS



[USGS Home](#)
[Contact USGS](#)
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National Water Information System: Web Interface

USGS Water Resources (Cooperator Access) **Data Category:** **Geographic Area:**

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for the Nation

Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 320628103533001

Minimum number of levels = 1

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

USGS 320628103533001 25S.30E.21.333424

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°06'28", Longitude 103°53'30" NAD27

Land-surface elevation 3,207 feet above NAVD88

The depth of the well is 288 feet below land surface.

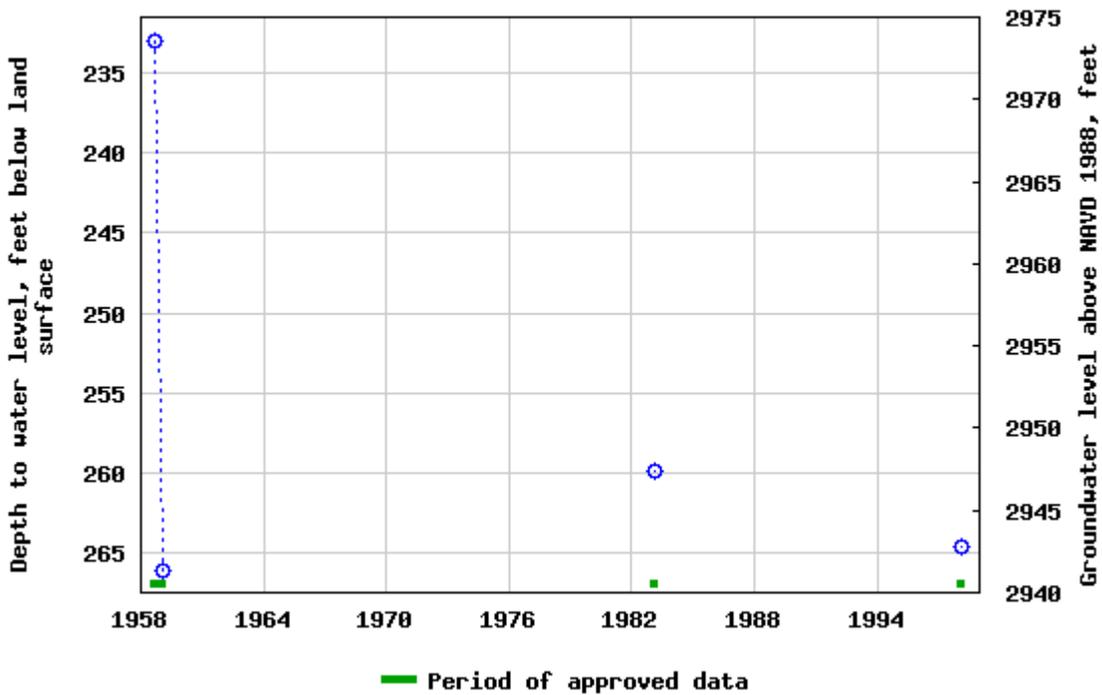
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

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

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

USGS 320628103533001 25S.30E.21.333424



Breaks in the plot represent a gap of at least one year between field measurements.
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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



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

Page Last Modified: 2022-02-03 14:33:26 EST

0.68 0.6 nadww02



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)					(NAD83 UTM in meters)		
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
C	03782 POD1	4	3	3	28	25S	30E	604526	3551444

Driller License: 331	Driller Company: SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.	
Driller Name:		
Drill Start Date: 01/16/2015	Drill Finish Date: 01/17/2015	Plug Date:
Log File Date: 02/19/2015	PCW Rev Date:	Source: Artesian
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 8.63	Depth Well: 805 feet	Depth Water: 277 feet

Water Bearing Stratifications:	Top	Bottom	Description
	260	320	Sandstone/Gravel/Conglomerate
	320	380	Sandstone/Gravel/Conglomerate
	380	410	Sandstone/Gravel/Conglomerate
	410	530	Shale/Mudstone/Siltstone
	530	590	Shale/Mudstone/Siltstone
	590	600	Shale/Mudstone/Siltstone
	600	630	Shale/Mudstone/Siltstone
	630	650	Shale/Mudstone/Siltstone
	650	700	Shale/Mudstone/Siltstone
	700	710	Shale/Mudstone/Siltstone
	710	760	Shale/Mudstone/Siltstone
	760	770	Shale/Mudstone/Siltstone
	770	780	Shale/Mudstone/Siltstone
	780	790	Shale/Mudstone/Siltstone
	790	805	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	270	805

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

<p>WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220</p>					BH or PH Name: SS 01		Date: 02-22-2022					
					Site Name: Pierce Canyon 17				RP or Incident Number: NAPP2134945825			
					WSP Job Number:		31403236.020.0129					
					LITHOLOGIC / SOIL SAMPLING LOG				Logged By: AC		Method: Backhoe	
Lat/Long: 32.12400, -103.89590			Field Screening: TPH, Chloride			Hole Diameter:		Total Depth: 2 feet				
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no												
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks				
D	235.2	1.3	N	SS01	0.5	0.5	SP+CCHE	Sand/Caliche				
D	196	0.7	N	SS01A	2	2	CCHE	Caliche				
TD @ 2 ft bgs												

<p>WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220</p>					BH or PH Name: SS 02		Date: 02-22-2022			
					Site Name: Pierce Canyon 17					
					RP or Incident Number: NAPP2134945825					
					WSP Job Number:		31403236.020.0129			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: AC		Method: Backhoe			
Lat/Long: 32.12400, -103.89590			Field Screening: TPH, Chloride			Hole Diameter:		Total Depth: 2 feet		
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks		
D	464.8	0.8	N	SS02	0.5	0.5	SP+CCHE	Sand/Caliche		
D	414.4	0.2	N	SS02A	2	2	CCHE	Caliche		
TD @ 2 ft bgs										

ATTACHMENT 3: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG		
XTO Energy	Pierce Canyon 17	NAPP2134945825

Photo No.	Date	
1	February 22, 2022	
View of release extent facing northwest.		



PHOTOGRAPHIC LOG		
XTO Energy	Pierce Canyon 17	NAPP2134945825

Photo No.	Date	
2	February 22, 2022	
View of surface staining removal facing southwest.		

ATTACHMENT 4: LABORATORY ANALYTICAL REPORTS



Environment Testing
America

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-2028-1
Laboratory Sample Delivery Group: 31403236.020.0129
Client Project/Site: PC 17 TB

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

Attn: Tacoma Morrissey

Authorized for release by:
3/1/2022 6:52:29 PM

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



LINKS

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www.eurofinsus.com/Env

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: PC 17 TB

Laboratory Job ID: 890-2028-1
SDG: 31403236.020.0129

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PC 17 TB

Job ID: 890-2028-1
SDG: 31403236.020.0129

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc.
Project/Site: PC 17 TB

Job ID: 890-2028-1
SDG: 31403236.020.0129

Job ID: 890-2028-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2028-1

Receipt

The samples were received on 2/28/2022 9:23 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

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.

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PC 17 TBJob ID: 890-2028-1
SDG: 31403236.020.0129

Client Sample ID: SS01

Lab Sample ID: 890-2028-1

Date Collected: 02/22/22 10:45

Matrix: Solid

Date Received: 02/28/22 09:23

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		03/01/22 10:15	03/01/22 14:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/22 10:15	03/01/22 14:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/22 10:15	03/01/22 14:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/01/22 10:15	03/01/22 14:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/22 10:15	03/01/22 14:01	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/01/22 10:15	03/01/22 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/01/22 10:15	03/01/22 14:01	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/01/22 10:15	03/01/22 14:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/28/22 19:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/01/22 19:07	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		03/01/22 13:00	03/01/22 13:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/01/22 13:00	03/01/22 13:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/01/22 13:00	03/01/22 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	03/01/22 13:00	03/01/22 13:31	1
o-Terphenyl	106		70 - 130	03/01/22 13:00	03/01/22 13:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.1		5.01	mg/Kg			03/01/22 13:22	1

Client Sample ID: SS02

Lab Sample ID: 890-2028-2

Date Collected: 02/22/22 10:50

Matrix: Solid

Date Received: 02/28/22 09:23

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		03/01/22 10:15	03/01/22 14:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/22 10:15	03/01/22 14:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/22 10:15	03/01/22 14:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/01/22 10:15	03/01/22 14:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/22 10:15	03/01/22 14:21	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/01/22 10:15	03/01/22 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/01/22 10:15	03/01/22 14:21	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PC 17 TB

Job ID: 890-2028-1
SDG: 31403236.020.0129

Client Sample ID: SS02

Lab Sample ID: 890-2028-2

Date Collected: 02/22/22 10:50

Matrix: Solid

Date Received: 02/28/22 09:23

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	03/01/22 10:15	03/01/22 14:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/28/22 19:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/01/22 19:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/01/22 13:00	03/01/22 13:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		03/01/22 13:00	03/01/22 13:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/01/22 13:00	03/01/22 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	03/01/22 13:00	03/01/22 13:52	1
o-Terphenyl	100		70 - 130	03/01/22 13:00	03/01/22 13:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	229		5.00	mg/Kg			03/01/22 13:31	1

Client Sample ID: SS01A

Lab Sample ID: 890-2028-3

Date Collected: 02/22/22 12:15

Matrix: Solid

Date Received: 02/28/22 09:23

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/01/22 10:15	03/01/22 14:42	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/01/22 10:15	03/01/22 14:42	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/01/22 10:15	03/01/22 14:42	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		03/01/22 10:15	03/01/22 14:42	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/01/22 10:15	03/01/22 14:42	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		03/01/22 10:15	03/01/22 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/01/22 10:15	03/01/22 14:42	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/01/22 10:15	03/01/22 14:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			02/28/22 19:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/01/22 19:07	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PC 17 TB

Job ID: 890-2028-1
SDG: 31403236.020.0129

Client Sample ID: SS01A

Lab Sample ID: 890-2028-3

Date Collected: 02/22/22 12:15

Matrix: Solid

Date Received: 02/28/22 09:23

Sample Depth: 2

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		03/01/22 13:00	03/01/22 14:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/01/22 13:00	03/01/22 14:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/01/22 13:00	03/01/22 14:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			03/01/22 13:00	03/01/22 14:13	1
o-Terphenyl	97		70 - 130			03/01/22 13:00	03/01/22 14:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	149		4.99	mg/Kg			03/01/22 13:39	1

Client Sample ID: SS02A

Lab Sample ID: 890-2028-4

Date Collected: 02/22/22 12:25

Matrix: Solid

Date Received: 02/28/22 09:23

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/01/22 10:15	03/01/22 15:02	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/01/22 10:15	03/01/22 15:02	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/01/22 10:15	03/01/22 15:02	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/01/22 10:15	03/01/22 15:02	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/01/22 10:15	03/01/22 15:02	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/01/22 10:15	03/01/22 15:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			03/01/22 10:15	03/01/22 15:02	1
1,4-Difluorobenzene (Surr)	99		70 - 130			03/01/22 10:15	03/01/22 15:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			02/28/22 19:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/01/22 19:07	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		03/01/22 13:00	03/01/22 14:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/01/22 13:00	03/01/22 14:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/01/22 13:00	03/01/22 14:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			03/01/22 13:00	03/01/22 14:34	1
o-Terphenyl	94		70 - 130			03/01/22 13:00	03/01/22 14:34	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PC 17 TB

Job ID: 890-2028-1
SDG: 31403236.020.0129

Client Sample ID: SS02A
Date Collected: 02/22/22 12:25
Date Received: 02/28/22 09:23
Sample Depth: 2

Lab Sample ID: 890-2028-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	143		5.03	mg/Kg			03/01/22 13:48	1

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- 2
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Surrogate Summary

Client: WSP USA Inc.
Project/Site: PC 17 TBJob ID: 890-2028-1
SDG: 31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-11807-A-1-E MS	Matrix Spike	131 S1+	92
880-11807-A-1-F MSD	Matrix Spike Duplicate	98	96
890-2028-1	SS01	100	97
890-2028-2	SS02	99	97
890-2028-3	SS01A	99	97
890-2028-4	SS02A	100	99
LCS 880-20522/1-A	Lab Control Sample	97	98
LCS 880-20522/2-A	Lab Control Sample Dup	100	101
MB 880-20522/5-A	Method Blank	100	95

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-2016-A-1-E MS	Matrix Spike	88	84
890-2016-A-1-F MSD	Matrix Spike Duplicate	92	84
890-2028-1	SS01	107	106
890-2028-2	SS02	98	100
890-2028-3	SS01A	99	97
890-2028-4	SS02A	99	94
LCS 880-20521/2-A	Lab Control Sample	99	100
LCS 880-20521/3-A	Lab Control Sample Dup	100	90
MB 880-20521/1-A	Method Blank	98	99

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: PC 17 TB

Job ID: 890-2028-1
SDG: 31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20522/5-A
Matrix: Solid
Analysis Batch: 20576

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20522

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/01/22 10:15	03/01/22 11:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/22 10:15	03/01/22 11:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/22 10:15	03/01/22 11:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/01/22 10:15	03/01/22 11:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/22 10:15	03/01/22 11:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/01/22 10:15	03/01/22 11:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/01/22 10:15	03/01/22 11:37	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/01/22 10:15	03/01/22 11:37	1

Lab Sample ID: LCS 880-20522/1-A
Matrix: Solid
Analysis Batch: 20576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20522

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09996		mg/Kg		100	70 - 130
Toluene	0.100	0.09986		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.09875		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2011		mg/Kg		101	70 - 130
o-Xylene	0.100	0.09772		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-20522/2-A
Matrix: Solid
Analysis Batch: 20576

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20522

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1053		mg/Kg		105	70 - 130	5	35
Toluene	0.100	0.1041		mg/Kg		104	70 - 130	4	35
Ethylbenzene	0.100	0.1029		mg/Kg		103	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2106		mg/Kg		105	70 - 130	5	35
o-Xylene	0.100	0.1026		mg/Kg		103	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-11807-A-1-E MS
Matrix: Solid
Analysis Batch: 20576

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 20522

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.0996	0.06922	F1	mg/Kg		69	70 - 130
Toluene	<0.00199	U F1	0.0996	0.06835	F1	mg/Kg		68	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PC 17 TB

Job ID: 890-2028-1
SDG: 31403236.020.0129

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

Lab Sample ID: 880-11807-A-1-E MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 20576

Prep Batch: 20522

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Ethylbenzene	<0.00199	U F1	0.0996	0.08253		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.199	0.1606		mg/Kg		81	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09406		mg/Kg		94	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-11807-A-1-F MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 20576

Prep Batch: 20522

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00199	U F1	0.0992	0.07112		mg/Kg		72	70 - 130	3	35
Toluene	<0.00199	U F1	0.0992	0.05015	F1	mg/Kg		50	70 - 130	31	35
Ethylbenzene	<0.00199	U F1	0.0992	0.05936	F1	mg/Kg		60	70 - 130	33	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.198	0.1068	F1 F2	mg/Kg		54	70 - 130	40	35
o-Xylene	<0.00199	U	0.0992	0.07037		mg/Kg		71	70 - 130	29	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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

Lab Sample ID: MB 880-20521/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 20583

Prep Batch: 20521

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/28/22 14:24	03/01/22 10:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/28/22 14:24	03/01/22 10:41	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/28/22 14:24	03/01/22 10:41	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	98		70 - 130	02/28/22 14:24	03/01/22 10:41	1
o-Terphenyl	99		70 - 130	02/28/22 14:24	03/01/22 10:41	1

Lab Sample ID: LCS 880-20521/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 20583

Prep Batch: 20521

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	986.7		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	790.2		mg/Kg		79	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PC 17 TB

Job ID: 890-2028-1
SDG: 31403236.020.0129

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

Lab Sample ID: LCS 880-20521/2-A
Matrix: Solid
Analysis Batch: 20583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20521

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	99		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-20521/3-A
Matrix: Solid
Analysis Batch: 20583

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20521

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec.		RPD	Limit
		Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	922.9		mg/Kg		92	70 - 130	7	20	
Diesel Range Organics (Over C10-C28)	1000	778.9		mg/Kg		78	70 - 130	1	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	100		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 890-2016-A-1-E MS
Matrix: Solid
Analysis Batch: 20583

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 20521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	929.4		mg/Kg		90	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	726.1		mg/Kg		73	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	88		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: 890-2016-A-1-F MSD
Matrix: Solid
Analysis Batch: 20583

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 20521

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	922.2		mg/Kg		90	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)	<50.0	U	998	731.8		mg/Kg		73	70 - 130	1	20	

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	92		70 - 130
o-Terphenyl	84		70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PC 17 TB

Job ID: 890-2028-1
SDG: 31403236.020.0129

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-20600/1-A
Matrix: Solid
Analysis Batch: 20602

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			03/01/22 10:57	1

Lab Sample ID: LCS 880-20600/2-A
Matrix: Solid
Analysis Batch: 20602

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	242.0		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-20600/3-A
Matrix: Solid
Analysis Batch: 20602

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	241.9		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-2028-4 MS
Matrix: Solid
Analysis Batch: 20602

Client Sample ID: SS02A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	143		252	395.5		mg/Kg		100	90 - 110

Lab Sample ID: 890-2028-4 MSD
Matrix: Solid
Analysis Batch: 20602

Client Sample ID: SS02A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	143		252	396.0		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: PC 17 TBJob ID: 890-2028-1
SDG: 31403236.020.0129

GC VOA

Prep Batch: 20522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2028-1	SS01	Total/NA	Solid	5035	
890-2028-2	SS02	Total/NA	Solid	5035	
890-2028-3	SS01A	Total/NA	Solid	5035	
890-2028-4	SS02A	Total/NA	Solid	5035	
MB 880-20522/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20522/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20522/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11807-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-11807-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 20556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2028-1	SS01	Total/NA	Solid	Total BTEX	
890-2028-2	SS02	Total/NA	Solid	Total BTEX	
890-2028-3	SS01A	Total/NA	Solid	Total BTEX	
890-2028-4	SS02A	Total/NA	Solid	Total BTEX	

Analysis Batch: 20576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2028-1	SS01	Total/NA	Solid	8021B	20522
890-2028-2	SS02	Total/NA	Solid	8021B	20522
890-2028-3	SS01A	Total/NA	Solid	8021B	20522
890-2028-4	SS02A	Total/NA	Solid	8021B	20522
MB 880-20522/5-A	Method Blank	Total/NA	Solid	8021B	20522
LCS 880-20522/1-A	Lab Control Sample	Total/NA	Solid	8021B	20522
LCSD 880-20522/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20522
880-11807-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	20522
880-11807-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	20522

GC Semi VOA

Prep Batch: 20521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2028-1	SS01	Total/NA	Solid	8015NM Prep	
890-2028-2	SS02	Total/NA	Solid	8015NM Prep	
890-2028-3	SS01A	Total/NA	Solid	8015NM Prep	
890-2028-4	SS02A	Total/NA	Solid	8015NM Prep	
MB 880-20521/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-20521/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-20521/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2016-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2016-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 20583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2028-1	SS01	Total/NA	Solid	8015B NM	20521
890-2028-2	SS02	Total/NA	Solid	8015B NM	20521
890-2028-3	SS01A	Total/NA	Solid	8015B NM	20521
890-2028-4	SS02A	Total/NA	Solid	8015B NM	20521
MB 880-20521/1-A	Method Blank	Total/NA	Solid	8015B NM	20521
LCS 880-20521/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20521

Eurofins Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: PC 17 TBJob ID: 890-2028-1
SDG: 31403236.020.0129

GC Semi VOA (Continued)

Analysis Batch: 20583 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-20521/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20521
890-2016-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	20521
890-2016-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	20521

Analysis Batch: 20634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2028-1	SS01	Total/NA	Solid	8015 NM	
890-2028-2	SS02	Total/NA	Solid	8015 NM	
890-2028-3	SS01A	Total/NA	Solid	8015 NM	
890-2028-4	SS02A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 20600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2028-1	SS01	Soluble	Solid	DI Leach	
890-2028-2	SS02	Soluble	Solid	DI Leach	
890-2028-3	SS01A	Soluble	Solid	DI Leach	
890-2028-4	SS02A	Soluble	Solid	DI Leach	
MB 880-20600/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-20600/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-20600/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2028-4 MS	SS02A	Soluble	Solid	DI Leach	
890-2028-4 MSD	SS02A	Soluble	Solid	DI Leach	

Analysis Batch: 20602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2028-1	SS01	Soluble	Solid	300.0	20600
890-2028-2	SS02	Soluble	Solid	300.0	20600
890-2028-3	SS01A	Soluble	Solid	300.0	20600
890-2028-4	SS02A	Soluble	Solid	300.0	20600
MB 880-20600/1-A	Method Blank	Soluble	Solid	300.0	20600
LCS 880-20600/2-A	Lab Control Sample	Soluble	Solid	300.0	20600
LCSD 880-20600/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	20600
890-2028-4 MS	SS02A	Soluble	Solid	300.0	20600
890-2028-4 MSD	SS02A	Soluble	Solid	300.0	20600

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PC 17 TBJob ID: 890-2028-1
SDG: 31403236.020.0129

Client Sample ID: SS01

Lab Sample ID: 890-2028-1

Date Collected: 02/22/22 10:45

Matrix: Solid

Date Received: 02/28/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20522	03/01/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	20576	03/01/22 14:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	20556	02/28/22 19:17	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	20634	03/01/22 19:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20521	03/01/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20583	03/01/22 13:31	AJ	XEN MID
Soluble	Leach	DI Leach			20600	03/01/22 12:29	SC	XEN MID
Soluble	Analysis	300.0		1	20602	03/01/22 13:22	SC	XEN MID

Client Sample ID: SS02

Lab Sample ID: 890-2028-2

Date Collected: 02/22/22 10:50

Matrix: Solid

Date Received: 02/28/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20522	03/01/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	20576	03/01/22 14:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	20556	02/28/22 19:17	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	20634	03/01/22 19:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20521	03/01/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20583	03/01/22 13:52	AJ	XEN MID
Soluble	Leach	DI Leach			20600	03/01/22 12:29	SC	XEN MID
Soluble	Analysis	300.0		1	20602	03/01/22 13:31	SC	XEN MID

Client Sample ID: SS01A

Lab Sample ID: 890-2028-3

Date Collected: 02/22/22 12:15

Matrix: Solid

Date Received: 02/28/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20522	03/01/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	20576	03/01/22 14:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	20556	02/28/22 19:17	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	20634	03/01/22 19:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20521	03/01/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20583	03/01/22 14:13	AJ	XEN MID
Soluble	Leach	DI Leach			20600	03/01/22 12:29	SC	XEN MID
Soluble	Analysis	300.0		1	20602	03/01/22 13:39	SC	XEN MID

Client Sample ID: SS02A

Lab Sample ID: 890-2028-4

Date Collected: 02/22/22 12:25

Matrix: Solid

Date Received: 02/28/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20522	03/01/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	20576	03/01/22 15:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	20556	02/28/22 19:17	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PC 17 TB

Job ID: 890-2028-1
SDG: 31403236.020.0129

Client Sample ID: SS02A

Lab Sample ID: 890-2028-4

Date Collected: 02/22/22 12:25

Matrix: Solid

Date Received: 02/28/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	20634	03/01/22 19:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20521	03/01/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20583	03/01/22 14:34	AJ	XEN MID
Soluble	Leach	DI Leach			20600	03/01/22 12:29	SC	XEN MID
Soluble	Analysis	300.0		1	20602	03/01/22 13:48	SC	XEN MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: PC 17 TB

Job ID: 890-2028-1
SDG: 31403236.020.0129

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: WSP USA Inc.
 Project/Site: PC 17 TB

Job ID: 890-2028-1
 SDG: 31403236.020.0129

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (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.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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



Sample Summary

Client: WSP USA Inc.
Project/Site: PC 17 TB

Job ID: 890-2028-1
SDG: 31403236.020.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2028-1	SS01	Solid	02/22/22 10:45	02/28/22 09:23	0.5
890-2028-2	SS02	Solid	02/22/22 10:50	02/28/22 09:23	0.5
890-2028-3	SS01A	Solid	02/22/22 12:15	02/28/22 09:23	2
890-2028-4	SS02A	Solid	02/22/22 12:25	02/28/22 09:23	2

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- 12
- 13
- 14

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2028-1
SDG Number: 31403236.020.0129

Login Number: 2028
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	

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- 12
- 13
- 14

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2028-1
SDG Number: 31403236.020.0129

Login Number: 2028
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 03/01/22 11:15 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	

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District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
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 811 S. First St., Artesia, NM 88210
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District III
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 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 89693

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 89693
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Depth to groundwater determination must rely on well data within 0.5 miles from the site and <25 years old. OCD will issue approval as this site had data below most stringent criteria-600 mg/kg chloride.	3/22/2022