

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	NRM2109735302
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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 type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

State of New Mexico
Oil Conservation Division

Incident ID	NRM2109735302
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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: _____ Title: _____ Signature: <u>Adrian Bafes</u> Date: _____ email: _____ Telephone: _____
<u>OCD Only</u> Received by: _____ Date: _____

Location:	PLU PB 25-25-30	
Spill Date:	3/24/2021	
Area 1		
Approximate Area =	56.15	cu.ft.
VOLUME OF LEAK		
Total Produced Water =	10.00	bbls
TOTAL VOLUME OF LEAK		
Total Produced Water =	10.00	bbls
TOTAL VOLUME RECOVERED		
Total Produced Water =	10.00	bbls

Incident ID	NRM2109735302
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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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	NRM2109735302
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: Kyle Littrell Title: Environmental Manager

Signature:  Date: 5/28/2021

email: Kyle_Littrell@exxonmobil.com Telephone: 432-221-7331

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: _____

Incident ID	NRM2109735302
District RP	
Facility ID	
Application ID	

Closure

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Printed Name: Kyle Littrell Title: Environmental Manager

Signature:  Date: 5/28/2021

email: Kyle_Littrell@exxonmobil.com Telephone: 432-221-7331

OCD Only

Received by: Robert Hamlet Date: 7/28/2021

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: 7/28/2021

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced



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

May 28, 2021

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

**Re: Closure Request
PLU PB 25-25-30
Incident Number NAPP2109735302
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) Phantom Banks (PB) 25-25-30 (Site) located in Unit N, Section 25, 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 the release of produced water within lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NAPP2109735302.

RELEASE BACKGROUND

On March 24, 2021, a 3-inch steel dump line released approximately 10 barrels (bbls) of produced water within the lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids; all 10 bbls of the released produced water were recovered from within the lined containment. A 48-hour advance notice of liner inspection was provided via email to the New Mexico Oil Conservation Division (NMOCD) District II office. A liner integrity inspection was conducted by XTO personnel following the fluid recovery and upon inspection, the liner was determined to be insufficient. XTO reported the release to the NMOCD on a Release Notification Form C-141 on April 7, 2021. The release was assigned Incident Number NAPP2109735302.

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 groundwater



well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-03781, located approximately 2.1 miles north of the Site. The groundwater well has a reported depth to groundwater of 325 feet bgs and a total depth of 720 feet bgs. NMOSE well C-03781 was sampled most recently on February 19, 2015. All wells used for depth to groundwater determination are depicted on Figure 1 and referenced well records are provided in Attachment 1.

On February 24, 2021, in an effort to confirm depth to water in the area, a borehole (C-4498/POD1) was advanced to a depth of 109 feet bgs via truck-mounted hollow stem auger rig. The borehole was located approximately 0.5 miles northwest of the Site. A WSP geologist continuously logged and described soils. 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 109 feet. The borehole was properly abandoned with hydrated bentonite chips. The location of borehole C-4498/POD1 is provided on Figure 1. The borehole lithologic/soil sampling log is included in Attachment 1.

The closest continuously flowing water or significant watercourse to the Site is an intermittent stream, located approximately 190 feet to the south 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): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On March 30, 2021, WSP personnel visited the Site to evaluate the release extent and conduct site assessment activities. WSP personnel advanced one core hole (CH01) via core drill at a location near the tear in the liner to assess for the presence or absence of impacted soil. Four additional core holes (CH02 through CH05) were advanced around the outside of the lined



containment to confirm lateral delineation. Two soil samples were collected from each core hole, CH01 through CH05, at depths of approximately 1-foot and 4 feet bgs. Soil from the core holes was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations from the core holes were documented on a lithologic/soil sampling log and are included as Attachment 2. The core holes were backfilled with the soil removed and XTO repaired the tear in the liner. The core hole delineation soil sample locations are depicted on Figure 2. Photographic documentation was conducted during the Site visit. The photographic log 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 Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (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 the delineation soil samples collected from core holes CH01 through CH05 indicated that benzene, BTEX, 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

Following the failed liner integrity inspection at the Site, WSP personnel advanced one core hole (CH01) near the location of the tear in the liner and four core holes (CH02 through CH05) around the lined containment, to assess for the presence or absence of soil impacts resulting from the March 24, 2021 produced water release within lined containment. Two delineation soil samples were collected from each core hole (CH01 through CH05) at depths of 1-foot and 4 feet bgs. Laboratory analytical results for the delineation soil samples indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, field screening of soil from the core holes indicated no elevated volatile aromatic hydrocarbons or chloride concentrations beneath the tear in the liner. The release was contained laterally by the lined containment and all released fluids were recovered during initial response activities. The tear in the liner was subsequently repaired.

Based on initial response efforts, absence of elevated field screening results, and soil sample laboratory analytical results compliant with the Closure Criteria, XTO respectfully requests NFA for Incident Number NAPP2109735302.



District II
Page 4

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

Sincerely,

WSP USA Inc.

A handwritten signature in black ink that reads "Kaleb Henry".

Kaleb Henry
Assistant Consultant, Geologist

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

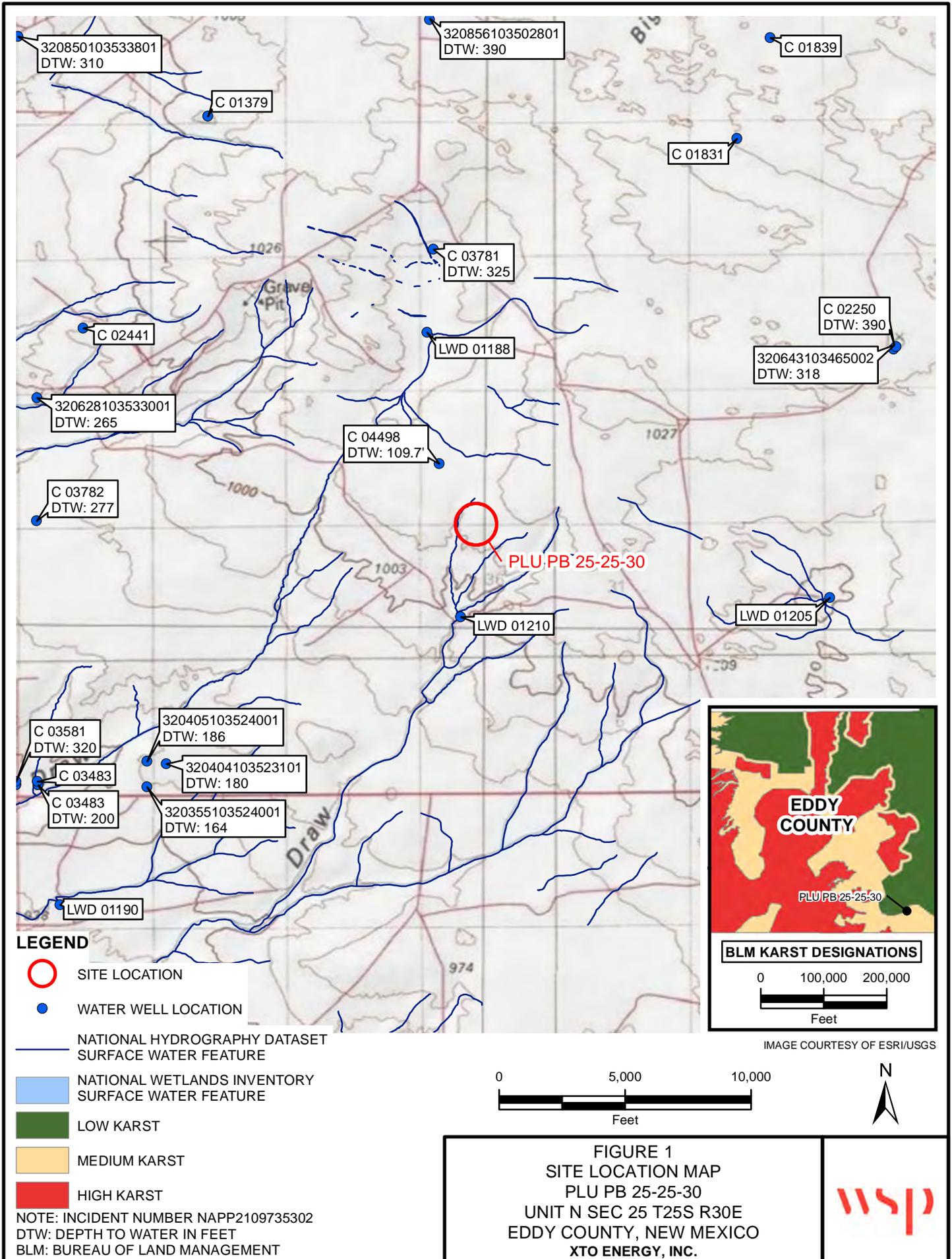
Ashley L. Ager, P.G.
Managing Director, Geologist

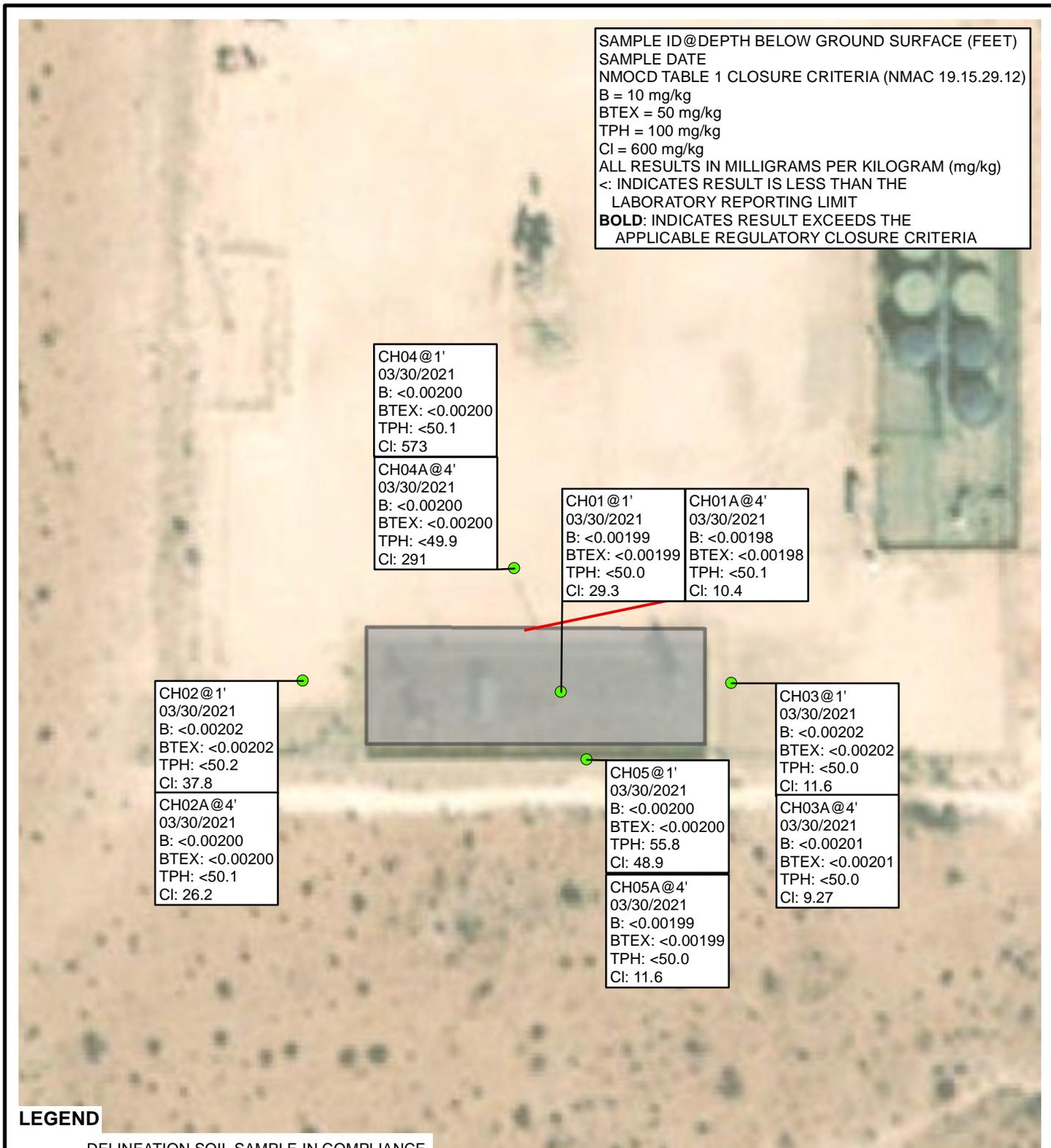
cc: Kyle Littrell, XTO
Bureau of Land Management

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





SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
 SAMPLE DATE
 NMOCD TABLE 1 CLOSURE CRITERIA (NMAC 19.15.29.12)
 B = 10 mg/kg
 BTEX = 50 mg/kg
 TPH = 100 mg/kg
 Cl = 600 mg/kg
 ALL RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg)
 <: INDICATES RESULT IS LESS THAN THE LABORATORY REPORTING LIMIT
BOLD>: INDICATES RESULT EXCEEDS THE APPLICABLE REGULATORY CLOSURE CRITERIA

CH04@1'
 03/30/2021
 B: <0.00200
 BTEX: <0.00200
 TPH: <50.1
 Cl: 573

CH04A@4'
 03/30/2021
 B: <0.00200
 BTEX: <0.00200
 TPH: <49.9
 Cl: 291

CH01@1'
 03/30/2021
 B: <0.00199
 BTEX: <0.00199
 TPH: <50.0
 Cl: 29.3

CH01A@4'
 03/30/2021
 B: <0.00198
 BTEX: <0.00198
 TPH: <50.1
 Cl: 10.4

CH02@1'
 03/30/2021
 B: <0.00202
 BTEX: <0.00202
 TPH: <50.2
 Cl: 37.8

CH02A@4'
 03/30/2021
 B: <0.00200
 BTEX: <0.00200
 TPH: <50.1
 Cl: 26.2

CH05@1'
 03/30/2021
 B: <0.00200
 BTEX: <0.00200
 TPH: 55.8
 Cl: 48.9

CH05A@4'
 03/30/2021
 B: <0.00199
 BTEX: <0.00199
 TPH: <50.0
 Cl: 11.6

CH03@1'
 03/30/2021
 B: <0.00202
 BTEX: <0.00202
 TPH: <50.0
 Cl: 11.6

CH03A@4'
 03/30/2021
 B: <0.00201
 BTEX: <0.00201
 TPH: <50.0
 Cl: 9.27

LEGEND

- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- ELECTRIC LINE
- INFRASTRUCTURE

B: BENZENE
 BTEX: TOTAL BENZENE, TOLUENE, ETHYLBENZENE, AND TOTAL XYLENES
 TPH: TOTAL PETROLEUM HYDROCARBONS
 Cl: CHLORIDE
 NMAC: NEW MEXICO ADMINISTRATIVE CODE
 NMOCD: NEW MEXICO OIL CONSERVATION DIVISION
 NOTE: INCIDENT NUMBER NAPP2109735302

IMAGE COURTESY OF ESRI

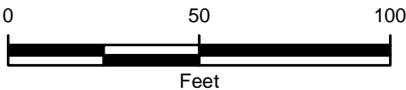


FIGURE 2
 DELINEATION SOIL SAMPLE LOCATIONS
 PLU PB 25-25-30
 UNIT N SEC 25 T25S R30E
 EDDY COUNTY, NEW MEXICO
 XTO ENERGY, INC.



TABLES

Table 1

Soil Analytical Results
 PLU PB 25-25-30
 Incident Number NAPP2109735302
 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	NE	100	600
Delineation Samples										
CH01	03/30/2021	1	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	29.3
CH01A	03/30/2021	4	<0.00198	<0.00198	<50.1	<50.1	<50.1	<50.1	<50.1	10.4
CH02	03/30/2021	1	<0.00202	<0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	37.8
CH02A	03/30/2021	4	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	26.2
CH03	03/30/2021	1	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	11.6
CH03A	03/30/2021	4	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	9.27
CH04	03/30/2021	1	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	573
CH04A	03/30/2021	4	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	291
CH05	03/30/2021	1	<0.00200	<0.00200	<49.8	55.8	<49.8	55.8	55.8	48.9
CH05A	03/30/2021	4	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	11.6

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

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

Greyed data represents samples that were excavated

ATTACHMENT 1: REFERENCED WELL RECORD



New Mexico Office of the State Engineer
Received by OCD: 6/4/2021 11:07:34 AM Page 18 of 140
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C 03781	POD1	3	3	3	13	25S	30E	609306	3554761

Driller License: 331	Driller Company: SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.	
Driller Name:		
Drill Start Date: 01/08/2015	Drill Finish Date: 01/10/2015	Plug Date:
Log File Date: 02/19/2015	PCW Rcv Date:	Source: Artesian
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 8.63	Depth Well: 720 feet	Depth Water: 325 feet

Water Bearing Stratifications:	Top	Bottom	Description
	200	370	Sandstone Gravel Conglomerate
	370	390	Sandstone Gravel Conglomerate
	390	410	Sandstone Gravel Conglomerate
	410	440	Sandstone Gravel Conglomerate
	440	460	Shale/Mudstone/Siltstone
	460	470	Shale/Mudstone/Siltstone
	470	490	Shale/Mudstone/Siltstone
	490	500	Shale/Mudstone/Siltstone
	500	510	Sandstone Gravel Conglomerate
	510	530	Shale/Mudstone/Siltstone
	530	660	Shale/Mudstone/Siltstone
	660	690	Shale/Mudstone/Siltstone
	690	700	Shale/Mudstone/Siltstone
	700	720	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	340	720

Released to Imaging: 7/28/2021 2:02:17 PM



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

03/11/2021

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

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4498 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-4498Pod1.

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

Sincerely,

A handwritten signature in black ink that reads "Lucas Middleton". The signature is written in a cursive style.

Lucas Middleton

Enclosures: as noted above

DSE DII MAR 11 2021 10:41:22





WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE DIV / APR 11 2021 PM 4:22

APPLICABLE

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (BH-01)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4498	
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)				PHONE (OPTIONAL)	
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE ZIP TX 79707
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32°	SECONDS 6' 1.96"	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE	-103°	50' 26.19"	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW SW NE Sec. 25 T25S R30E						

2. DRILLING & CASING INFORMATION	LICENSE NO. 1249	NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.			
	DRILLING STARTED 02/24/2021	DRILLING ENDED 02/24/2021	DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 109	DEPTH WATER FIRST ENCOUNTERED (FT) n/a			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a			
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	109	±6.5	Boring- HSA	--	--	--	--

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

FOR OSE INTERNAL USE

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

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



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-4498- 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: 04/30/21

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

4) Date well plugging began: 03/02/2021 Date well plugging concluded: 03/02/2021

5) GPS Well Location: Latitude: 32 deg, 6 min, 1.96 sec
Longitude: -103 deg, 50 min, 26.19 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 109 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):

- 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:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0-10'	Hydrated Bentonite	Approx. 16 gallons	16 gallons	Augers	
10'-109'	Drill Cuttings	Approx. 171 gallons	171 gallons	Boring	



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

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

03/11/2021

Date

2020-03-10_C-4498-POD1_OSE_Well Record and Log-forsign

Final Audit Report

2021-03-11

Created:	2021-03-11
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAq2m7g1wGV8cRoBzMugpPTk25-4ojFW8H

"2020-03-10_C-4498-POD1_OSE_Well Record and Log-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2021-03-11 - 7:17:39 PM GMT- IP address: 69.21.248.123
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2021-03-11 - 7:18:18 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2021-03-11 - 7:29:33 PM GMT- IP address: 74.50.153.115
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2021-03-11 - 7:31:05 PM GMT - Time Source: server- IP address: 74.50.153.115
-  Agreement completed.
2021-03-11 - 7:31:05 PM GMT



OSE DJT MAR 11 2021 PM4:22



DESCRIPTION:

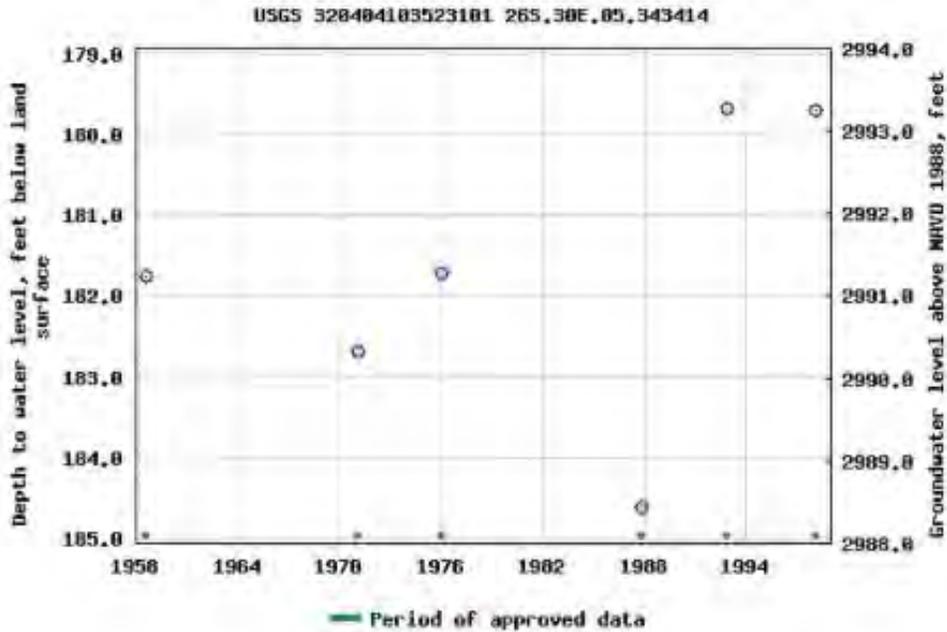
Latitude 32°04'04", Longitude 103°52'31" NAD27
 Eddy County, New Mexico , Hydrologic Unit 13070001
 Well depth: 775 feet
 Land surface altitude: 3,173 feet above NAVD88.
 Well completed in "Pecos River Basin alluvial aquifer" (N100PCSRVR) national aquifer.
 Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1958-08-18	1998-01-28	6
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](#)



 <p>WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220</p>				BH or PH Name: CH01		Date: 3/30/2021					
				Site Name: PLU PB 25-25-30				RP or Incident Number:			
				LITHOLOGIC / SOIL SAMPLING LOG				Logged By:		Method: Wet Core Drill	
				Lat/Long: 32.093941,-103.835973		Field Screening: Chloride, PID		Hole Diameter: 1.5'		Total Depth: 4'	
Comments:											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
						0	CCHE	CALICHE, dry, light brown-tan, poorly consolidated, some small gravel, some odor, trace stain, fill			
wet	<168	1.0	n	CH01	1	0.5	SW-S	SANDSTONE w/caliche gravel, wet, brown-light brown, well consolidated, medium-coarse grain, well graded, some tan caliche gravel, few small chert gravel, no stain, no odor			
wet	<168	2.1	n			2					
						3					
wet	<168	2.1	m	CH01A	4	4					
Total Depth: 4 feet bgs											

 <p>WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220</p>				BH or PH Name: CH02		Date: 3/30/2021					
				Site Name: PLU PB 25-25-30				RP or Incident Number: NRM2012453444			
				LITHOLOGIC / SOIL SAMPLING LOG				Logged By:		Method: Wet Core Drill	
				Lat/Long: 32.093941,-103.835973		Field Screening: Chloride, PID		Hole Diameter: 1.5'		Total Depth: 4'	
Comments:											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
					0	0	CCHE	CALICHE, dry, light brown-tan, poorly consolidated, some small gravel, some odor, trace stain, fill			
wet	<168	0.3	n	CH02	1	1	SW-S	SANDSTONE w/caliche gravel, wet, brown-light brown, well consolidated, medium-coarse grain, well graded, some tan caliche gravel, few small chert gravel, no stain, no odor			
wet	<168	0.0	n		2	2					
					3	3					
wet	<168	0.0	n	CH02A	4	4					
Total Depth: 4 feet bgs											

 <p>WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220</p>				BH or PH Name: CH03		Date: 3/30/2021			
				Site Name: PLU PB 25-25-30					
				RP or Incident Number: NRM2012453444					
				LTE Job Number: TE012920072					
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: TC/BB		Method: Wet Core Drill	
Lat/Long: 32.093941,-103.835973			Field Screening: Chloride, PID			Hole Diameter: 1.5'		Total Depth: 4'	
Comments:									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
						0	CCHE	CALICHE, dry, light brown-tan, poorly consolidated, some small gravel, some odor, trace stain, fill	
wet	<168	0.3	n	CH03	1	1	SW-S	SANDSTONE w/caliche gravel, wet, brown-light brown, well consolidated, medium-coarse grain, well graded, some tan caliche gravel, few small chert gravel, no stain, no odor	
wet	257.6	0.1	n			2			
						3			
wet	<168	0.0	n	CH03A	4	4			
								Total Depth: 4 feet bgs	

 <p>WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220</p>				BH or PH Name: CH04		Date: 3/30/2021			
				Site Name: PLU PB 25-25-30					
				RP or Incident Number: NRM2012453444					
				LTE Job Number: TE012920072					
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: TC/BB		Method: Wet Core Drill	
Lat/Long: 32.093941,-103.835973			Field Screening: Chloride, PID			Hole Diameter: 1.5'		Total Depth: 4'	
Comments:									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
						0	CCHE	CALICHE, dry, light brown-tan, poorly consolidated, some small gravel, some odor, trace stain, fill	
wet	520	0.2	n	CH04	1	1	SW-S	SANDSTONE w/caliche gravel, wet, brown-light brown, well consolidated, medium-coarse grain, well graded, some tan caliche gravel, few small chert gravel, no stain, no odor	
wet	364.0	0.1	n			2			
						3			
wet	229	0.1	n	CH04A	4	4			
								Total Depth: 4 feet bgs	

 <p>WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220</p>				BH or PH Name: CH05		Date: 3/30/2021			
				Site Name: PLU PB 25-25-30					
				RP or Incident Number: NRM2012453444					
				LTE Job Number: TE012920072					
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: TC/BB		Method: Wet Core Drill	
Lat/Long: 32.093941,-103.835973			Field Screening: Chloride, PID			Hole Diameter: 1.5'		Total Depth: 4'	
Comments:									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
						0	CCHE	CALICHE, dry, light brown-tan, poorly consolidated, some small gravel, some odor, trace stain, fill	
wet	<168	6.7	n	CH05	1	1	SW-S	SANDSTONE w/caliche gravel, wet, brown-light brown, well consolidated, medium-coarse grain, well graded, some tan caliche gravel, few small chert gravel, no stain, no odor	
wet	<168	2.1	n			2			
						3			
wet	<168	1.0	n	CH05A	4	4			
								Total Depth: 4 feet bgs	

ATTACHMENT 3: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG		
XTO Energy, Inc.	PLU PB 25-25-30 Eddy County, New Mexico	TE012920072

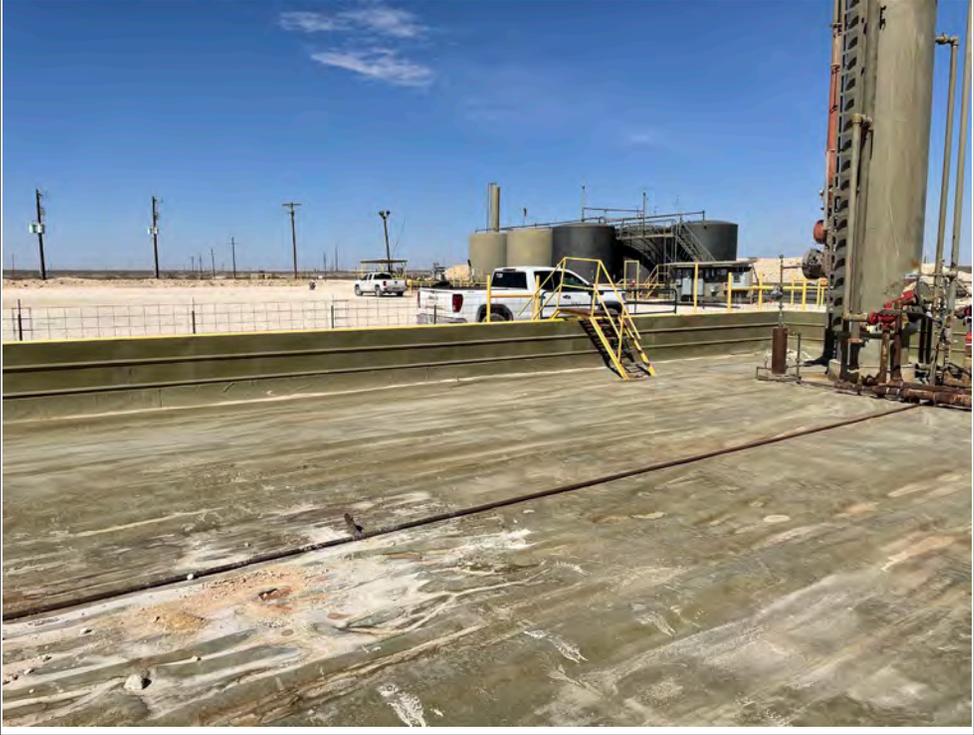
Photo No. 1	Date March 30, 2021	
Northeast facing view of core hole within lined containment.		

Photo No. 2	Date March 30, 2021	
West facing view of core hole within lined containment.		

ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS



Environment Testing
America

ANALYTICAL REPORT

Job Number: 890-462-1

SDG Number: TE012920072

Job Description: Phantom Banks 25-25-30

For:

WSP USA Inc.

2777 N. Stemmons Freeway

Suite 1600

Dallas, TX 75207

Attention: Dan Moir

A handwritten signature in black ink that reads "JKRAMER".

Approved for release.
Jessica Kramer
Project Manager
4/12/2021 5:46 PM

Jessica Kramer, Project Manager
1211 W. Florida Ave, Midland, TX, 79701
jessica.kramer@eurofinset.com
04/12/2021

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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.

Eurofins Xenco, Carlsbad

1089 N Canal St., Carlsbad, NM 88220

Tel (575) 988-3199 Fax (575) 988-3199 www.EurofinsUS.com



Client: WSP USA Inc.

Project/Site: Phantom Banks 25-25-30

Job ID: 890-462-1

SDG: TE012920072

Lab Sample ID: 890-462-1	890-462-2
Client Sample ID: CH01	CH01 A
Depth: 1	4
Matrix: Solid	Solid
Date Collected: 03/30/2021 10:34	03/30/2021 10:49

Method: 8021B - Volatile Organic Compounds (GC)

Prepared: 04/06/2021 16:49	04/06/2021 16:49
Analyzed: 04/07/2021 05:22	04/07/2021 05:42

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00199 U	0.00199	<0.00198 U	0.00198
Toluene		<0.00199 U	0.00199	<0.00198 U	0.00198
Ethylbenzene		<0.00199 U	0.00199	<0.00198 U	0.00198
m-Xylene & p-Xylene		<0.00398 U	0.00398	<0.00396 U	0.00396
o-Xylene		<0.00199 U	0.00199	<0.00198 U	0.00198
Xylenes, Total		<0.00398 U	0.00398	<0.00396 U	0.00396
Total BTEX		<0.00199 U	0.00199	<0.00198 U	0.00198

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

Prepared: 04/02/2021 09:33	04/02/2021 09:33
Analyzed: 04/02/2021 20:48	04/02/2021 21:10

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10		<50.0 U **	50.0	<50.1 U **	50.1
Diesel Range Organics (Over C10-C28)		<50.0 U	50.0	<50.1 U	50.1
Oil Range Organics (Over C28-C36)		<50.0 U	50.0	<50.1 U	50.1
Total TPH		<50.0 U	50.0	<50.1 U	50.1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:	
Analyzed: 04/11/2021 20:52	04/11/2021 20:58

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Chloride		29.3	4.95	10.4	5.00



Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-462-1
Laboratory Sample Delivery Group: TE012920072
Client Project/Site: Phantom Banks 25-25-30

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

Attn: Dan Moir

Authorized for release by:
4/12/2021 5:45:58 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.

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Client: WSP USA Inc.
Project/Site: Phantom Banks 25-25-30

Laboratory Job ID: 890-462-1
SDG: TE012920072

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Phantom Banks 25-25-30

Job ID: 890-462-1
SDG: TE012920072

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
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: Phantom Banks 25-25-30

Job ID: 890-462-1
SDG: TE012920072

Job ID: 890-462-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-462-1

Receipt

The samples were received on 3/31/2021 1:21 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 0.8°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: CH01 (890-462-1) and CH01 A (890-462-2).

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: Phantom Banks 25-25-30

Job ID: 890-462-1
SDG: TE012920072

Client Sample ID: CH01

Lab Sample ID: 890-462-1

Date Collected: 03/30/21 10:34

Matrix: Solid

Date Received: 03/31/21 13:21

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		04/06/21 16:49	04/07/21 05:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/06/21 16:49	04/07/21 05:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/06/21 16:49	04/07/21 05:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/06/21 16:49	04/07/21 05:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/06/21 16:49	04/07/21 05:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/06/21 16:49	04/07/21 05:22	1
Total BTEX	<0.00199	U	0.00199	mg/Kg		04/06/21 16:49	04/07/21 05:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	04/06/21 16:49	04/07/21 05:22	1
1,4-Difluorobenzene (Surr)	106		70 - 130	04/06/21 16:49	04/07/21 05:22	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		04/02/21 09:33	04/02/21 20:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/02/21 09:33	04/02/21 20:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/02/21 09:33	04/02/21 20:48	1
Total TPH	<50.0	U	50.0	mg/Kg		04/02/21 09:33	04/02/21 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	04/02/21 09:33	04/02/21 20:48	1
o-Terphenyl	121		70 - 130	04/02/21 09:33	04/02/21 20:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.3		4.95	mg/Kg			04/11/21 20:52	1

Client Sample ID: CH01 A

Lab Sample ID: 890-462-2

Date Collected: 03/30/21 10:49

Matrix: Solid

Date Received: 03/31/21 13:21

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/06/21 16:49	04/07/21 05:42	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/06/21 16:49	04/07/21 05:42	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/06/21 16:49	04/07/21 05:42	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		04/06/21 16:49	04/07/21 05:42	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/06/21 16:49	04/07/21 05:42	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		04/06/21 16:49	04/07/21 05:42	1
Total BTEX	<0.00198	U	0.00198	mg/Kg		04/06/21 16:49	04/07/21 05:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	04/06/21 16:49	04/07/21 05:42	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/06/21 16:49	04/07/21 05:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Phantom Banks 25-25-30

Job ID: 890-462-1
 SDG: TE012920072

Client Sample ID: CH01 A

Lab Sample ID: 890-462-2

Date Collected: 03/30/21 10:49

Matrix: Solid

Date Received: 03/31/21 13:21

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U **	50.1	mg/Kg	-	04/02/21 09:33	04/02/21 21:10	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg	-	04/02/21 09:33	04/02/21 21:10	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg	-	04/02/21 09:33	04/02/21 21:10	1
Total TPH	<50.1	U	50.1	mg/Kg	-	04/02/21 09:33	04/02/21 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130	04/02/21 09:33	04/02/21 21:10	1
o-Terphenyl	136	S1+	70 - 130	04/02/21 09:33	04/02/21 21:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.4		5.00	mg/Kg	-		04/11/21 20:58	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Phantom Banks 25-25-30

Job ID: 890-462-1
SDG: TE012920072

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-462-1	CH01	127	106
890-462-2	CH01 A	112	94
LCS 880-1404/1-A	Lab Control Sample	104	105
LCSD 880-1404/2-A	Lab Control Sample Dup	105	106
MB 880-1404/5-A	Method Blank	105	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-462-1	CH01	113	121
890-462-2	CH01 A	131 S1+	136 S1+
LCS 880-1228/2-A	Lab Control Sample	116	114
LCSD 880-1228/3-A	Lab Control Sample Dup	117	114
MB 880-1228/1-A	Method Blank	109	119

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Phantom Banks 25-25-30

Job ID: 890-462-1
SDG: TE012920072

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1404/5-A
Matrix: Solid
Analysis Batch: 1370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1404

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/06/21 16:49	04/07/21 00:34	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/06/21 16:49	04/07/21 00:34	1

Lab Sample ID: LCS 880-1404/1-A
Matrix: Solid
Analysis Batch: 1370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1404

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1045		mg/Kg		105	70 - 130
Toluene	0.100	0.09651		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1000		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.1967		mg/Kg		98	70 - 130
o-Xylene	0.100	0.1008		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-1404/2-A
Matrix: Solid
Analysis Batch: 1370

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1404

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1047		mg/Kg		105	70 - 130	0	35
Toluene	0.100	0.09625		mg/Kg		96	70 - 130	0	35
Ethylbenzene	0.100	0.09959		mg/Kg		100	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1955		mg/Kg		98	70 - 130	1	35
o-Xylene	0.100	0.09893		mg/Kg		99	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: Phantom Banks 25-25-30

Job ID: 890-462-1
SDG: TE012920072

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

Lab Sample ID: MB 880-1228/1-A
Matrix: Solid
Analysis Batch: 1237

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1228

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		04/02/21 09:33	04/02/21 12:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/02/21 09:33	04/02/21 12:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/02/21 09:33	04/02/21 12:15	1
Total TPH	<50.0	U	50.0	mg/Kg		04/02/21 09:33	04/02/21 12:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	04/02/21 09:33	04/02/21 12:15	1
o-Terphenyl	119		70 - 130	04/02/21 09:33	04/02/21 12:15	1

Lab Sample ID: LCS 880-1228/2-A
Matrix: Solid
Analysis Batch: 1237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1363	*+	mg/Kg		136	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1084		mg/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: LCSD 880-1228/3-A
Matrix: Solid
Analysis Batch: 1237

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1228

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1217		mg/Kg		122	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	1150		mg/Kg		115	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	114		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1542/1-A
Matrix: Solid
Analysis Batch: 1625

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			04/11/21 17:55	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
 Project/Site: Phantom Banks 25-25-30

Job ID: 890-462-1
 SDG: TE012920072

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-1542/2-A
 Matrix: Solid
 Analysis Batch: 1625

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	254.2		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-1542/3-A
 Matrix: Solid
 Analysis Batch: 1625

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	245.1		mg/Kg		98	90 - 110	4	20

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Phantom Banks 25-25-30

Job ID: 890-462-1
SDG: TE012920072

GC VOA

Analysis Batch: 1370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-462-1	CH01	Total/NA	Solid	8021B	1404
890-462-2	CH01 A	Total/NA	Solid	8021B	1404
MB 880-1404/5-A	Method Blank	Total/NA	Solid	8021B	1404
LCS 880-1404/1-A	Lab Control Sample	Total/NA	Solid	8021B	1404
LCSD 880-1404/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1404

Prep Batch: 1404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-462-1	CH01	Total/NA	Solid	5035	
890-462-2	CH01 A	Total/NA	Solid	5035	
MB 880-1404/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1404/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1404/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 1228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-462-1	CH01	Total/NA	Solid	8015NM Prep	
890-462-2	CH01 A	Total/NA	Solid	8015NM Prep	
MB 880-1228/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1228/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1228/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-462-1	CH01	Total/NA	Solid	8015B NM	1228
890-462-2	CH01 A	Total/NA	Solid	8015B NM	1228
MB 880-1228/1-A	Method Blank	Total/NA	Solid	8015B NM	1228
LCS 880-1228/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1228
LCSD 880-1228/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1228

HPLC/IC

Leach Batch: 1542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-462-1	CH01	Soluble	Solid	DI Leach	
890-462-2	CH01 A	Soluble	Solid	DI Leach	
MB 880-1542/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1542/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1542/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-462-1	CH01	Soluble	Solid	300.0	1542
890-462-2	CH01 A	Soluble	Solid	300.0	1542
MB 880-1542/1-A	Method Blank	Soluble	Solid	300.0	1542
LCS 880-1542/2-A	Lab Control Sample	Soluble	Solid	300.0	1542
LCSD 880-1542/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1542

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: Phantom Banks 25-25-30

Job ID: 890-462-1
 SDG: TE012920072

Client Sample ID: CH01

Lab Sample ID: 890-462-1

Date Collected: 03/30/21 10:34

Matrix: Solid

Date Received: 03/31/21 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1404	04/06/21 16:49	MR	XM
Total/NA	Analysis	8021B		1	1370	04/07/21 05:22	AJ	XM
Total/NA	Prep	8015NM Prep			1228	04/02/21 09:33	DM	XM
Total/NA	Analysis	8015B NM		1	1237	04/02/21 20:48	AJ	XM
Soluble	Leach	DI Leach			1542	04/08/21 15:27	SC	XM
Soluble	Analysis	300.0		1	1625	04/11/21 20:52	CH	XM

Client Sample ID: CH01 A

Lab Sample ID: 890-462-2

Date Collected: 03/30/21 10:49

Matrix: Solid

Date Received: 03/31/21 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1404	04/06/21 16:49	MR	XM
Total/NA	Analysis	8021B		1	1370	04/07/21 05:42	AJ	XM
Total/NA	Prep	8015NM Prep			1228	04/02/21 09:33	DM	XM
Total/NA	Analysis	8015B NM		1	1237	04/02/21 21:10	AJ	XM
Soluble	Leach	DI Leach			1542	04/08/21 15:27	SC	XM
Soluble	Analysis	300.0		1	1625	04/11/21 20:58	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: Phantom Banks 25-25-30

Job ID: 890-462-1
SDG: TE012920072

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

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Method Summary

Client: WSP USA Inc.
Project/Site: Phantom Banks 25-25-30

Job ID: 890-462-1
SDG: TE012920072

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: Phantom Banks 25-25-30

Job ID: 890-462-1
SDG: TE012920072

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-462-1	CH01	Solid	03/30/21 10:34	03/31/21 13:21	- 1
890-462-2	CH01 A	Solid	03/30/21 10:49	03/31/21 13:21	- 4

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-462-1
SDG Number: TE012920072

Login Number: 462
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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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-462-1
SDG Number: TE012920072

Login Number: 462
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Midland
List Creation: 04/01/21 11:44 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?	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	

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Environment Testing
America

ANALYTICAL REPORT

Job Number: 890-463-1
SDG Number: TE012920072
Job Description: Phantom Bank 25-25-30

For:
WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, TX 75207
Attention: Dan Moir

A handwritten signature in black ink that reads "JKRAMER".

Approved for release.
Jessica Kramer
Project Manager
4/9/2021 4:40 PM

Jessica Kramer, Project Manager
1211 W. Florida Ave, Midland, TX, 79701
jessica.kramer@eurofinset.com
04/09/2021

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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.

Eurofins Xenco, Carlsbad
1089 N Canal St., Carlsbad, NM 88220
Tel (575) 988-3199 Fax (575) 988-3199 www.EurofinsUS.com



Client Sample Result Summary

Client: WSP USA Inc.
 Project/Site: Phantom Bank 25-25-30

Job ID: 890-463-1
 SDG: TE012920072

Lab Sample ID: 890-463-1	890-463-2
Client Sample ID: CH02	CH02A
Depth: 1	4
Matrix: Solid	Solid
Date Collected: 03/30/2021 15:20	03/30/2021 15:40

Method: 8021B - Volatile Organic Compounds (GC)

Prepared: 04/06/2021 16:49 04/06/2021 16:49
Analyzed: 04/07/2021 06:03 04/07/2021 06:23

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Benzene	<0.00202 U	0.00202		<0.00200 U	0.00200
Toluene	<0.00202 U	0.00202		<0.00200 U	0.00200
Ethylbenzene	<0.00202 U	0.00202		<0.00200 U	0.00200
m-Xylene & p-Xylene	<0.00404 U	0.00404		<0.00401 U	0.00401
o-Xylene	<0.00202 U	0.00202		<0.00200 U	0.00200
Xylenes, Total	<0.00404 U	0.00404		<0.00401 U	0.00401
Total BTEX	<0.00202 U	0.00202		<0.00200 U	0.00200

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

Prepared: 04/03/2021 13:41 04/03/2021 13:41
Analyzed: 04/05/2021 06:04 04/05/2021 06:26

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10	<50.2 U	50.2		<50.1 U	50.1
Diesel Range Organics (Over C10-C28)	<50.2 U	50.2		<50.1 U	50.1
Oil Range Organics (Over C28-C36)	<50.2 U	50.2		<50.1 U	50.1
Total TPH	<50.2 U	50.2		<50.1 U	50.1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared: 04/08/2021 21:00
Analyzed: 04/08/2021 20:45 04/08/2021 21:00

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Chloride		37.8	4.97	26.2	4.97



Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-463-1
Laboratory Sample Delivery Group: TE012920072
Client Project/Site: Phantom Bank 25-25-30

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

Attn: Dan Moir

Authorized for release by:
4/9/2021 4:40:50 PM

Jessica Kramer, Project Manager
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jessica.kramer@eurofinset.com



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

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

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Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Laboratory Job ID: 890-463-1
SDG: TE012920072

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-463-1
SDG: TE012920072

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.
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: Phantom Bank 25-25-30

Job ID: 890-463-1
SDG: TE012920072

Job ID: 890-463-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-463-1

Receipt

The samples were received on 3/31/2021 1:21 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 0.8°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: CH02 (890-463-1) and CH02A (890-463-2).

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: Phantom Bank 25-25-30

Job ID: 890-463-1
SDG: TE012920072

Client Sample ID: CH02

Lab Sample ID: 890-463-1

Date Collected: 03/30/21 15:20

Matrix: Solid

Date Received: 03/31/21 13:21

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/06/21 16:49	04/07/21 06:03	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/06/21 16:49	04/07/21 06:03	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/06/21 16:49	04/07/21 06:03	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		04/06/21 16:49	04/07/21 06:03	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/06/21 16:49	04/07/21 06:03	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		04/06/21 16:49	04/07/21 06:03	1
Total BTEX	<0.00202	U	0.00202	mg/Kg		04/06/21 16:49	04/07/21 06:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	04/06/21 16:49	04/07/21 06:03	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/06/21 16:49	04/07/21 06:03	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	<50.2	U	50.2	mg/Kg		04/03/21 13:41	04/05/21 06:04	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		04/03/21 13:41	04/05/21 06:04	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		04/03/21 13:41	04/05/21 06:04	1
Total TPH	<50.2	U	50.2	mg/Kg		04/03/21 13:41	04/05/21 06:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	04/03/21 13:41	04/05/21 06:04	1
o-Terphenyl	128		70 - 130	04/03/21 13:41	04/05/21 06:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.8		4.97	mg/Kg			04/08/21 20:45	1

Client Sample ID: CH02A

Lab Sample ID: 890-463-2

Date Collected: 03/30/21 15:40

Matrix: Solid

Date Received: 03/31/21 13:21

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 06:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 06:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 06:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/06/21 16:49	04/07/21 06:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 06:23	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/06/21 16:49	04/07/21 06:23	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 06:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	04/06/21 16:49	04/07/21 06:23	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/06/21 16:49	04/07/21 06:23	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: Phantom Bank 25-25-30

Job ID: 890-463-1
 SDG: TE012920072

Client Sample ID: CH02A

Lab Sample ID: 890-463-2

Date Collected: 03/30/21 15:40

Matrix: Solid

Date Received: 03/31/21 13:21

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		04/03/21 13:41	04/05/21 06:26	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		04/03/21 13:41	04/05/21 06:26	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		04/03/21 13:41	04/05/21 06:26	1
Total TPH	<50.1	U	50.1	mg/Kg		04/03/21 13:41	04/05/21 06:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	04/03/21 13:41	04/05/21 06:26	1
o-Terphenyl	120		70 - 130	04/03/21 13:41	04/05/21 06:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.2		4.97	mg/Kg			04/08/21 21:00	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-463-1
SDG: TE012920072

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-463-1	CH02	116	108
890-463-2	CH02A	119	98
LCS 880-1404/1-A	Lab Control Sample	104	105
LCSD 880-1404/2-A	Lab Control Sample Dup	105	106
MB 880-1404/5-A	Method Blank	105	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-463-1	CH02	117	128
890-463-2	CH02A	111	120
LCS 880-1283/2-A	Lab Control Sample	121	116
LCSD 880-1283/3-A	Lab Control Sample Dup	117	113
MB 880-1283/1-A	Method Blank	100	104

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-463-1
SDG: TE012920072

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1404/5-A
Matrix: Solid
Analysis Batch: 1370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1404

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	105		70 - 130	04/06/21 16:49	04/07/21 00:34	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/06/21 16:49	04/07/21 00:34	1

Lab Sample ID: LCS 880-1404/1-A
Matrix: Solid
Analysis Batch: 1370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1404

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	0.100	0.1045		mg/Kg		105	70 - 130
Toluene	0.100	0.09651		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1000		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.1967		mg/Kg		98	70 - 130
o-Xylene	0.100	0.1008		mg/Kg		101	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-1404/2-A
Matrix: Solid
Analysis Batch: 1370

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1404

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	
		Result	Qualifier					RPD	Limit
Benzene	0.100	0.1047		mg/Kg		105	70 - 130	0	35
Toluene	0.100	0.09625		mg/Kg		96	70 - 130	0	35
Ethylbenzene	0.100	0.09959		mg/Kg		100	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1955		mg/Kg		98	70 - 130	1	35
o-Xylene	0.100	0.09893		mg/Kg		99	70 - 130	2	35

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-463-1
SDG: TE012920072

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

Lab Sample ID: MB 880-1283/1-A
Matrix: Solid
Analysis Batch: 1291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1283

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		04/03/21 13:41	04/04/21 22:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/04/21 22:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/04/21 22:41	1
Total TPH	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/04/21 22:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	04/03/21 13:41	04/04/21 22:41	1
o-Terphenyl	104		70 - 130	04/03/21 13:41	04/04/21 22:41	1

Lab Sample ID: LCS 880-1283/2-A
Matrix: Solid
Analysis Batch: 1291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1283

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1072		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1024		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: LCSD 880-1283/3-A
Matrix: Solid
Analysis Batch: 1291

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1283

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1076		mg/Kg		108	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	976.6		mg/Kg		98	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	113		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1412/1-A
Matrix: Solid
Analysis Batch: 1523

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			04/08/21 19:02	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: Phantom Bank 25-25-30

Job ID: 890-463-1
 SDG: TE012920072

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-1412/2-A
 Matrix: Solid
 Analysis Batch: 1523

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	265.5		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-1412/3-A
 Matrix: Solid
 Analysis Batch: 1523

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	265.3		mg/Kg		106	90 - 110	0	20

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-463-1
SDG: TE012920072

GC VOA

Analysis Batch: 1370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-463-1	CH02	Total/NA	Solid	8021B	1404
890-463-2	CH02A	Total/NA	Solid	8021B	1404
MB 880-1404/5-A	Method Blank	Total/NA	Solid	8021B	1404
LCS 880-1404/1-A	Lab Control Sample	Total/NA	Solid	8021B	1404
LCSD 880-1404/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1404

Prep Batch: 1404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-463-1	CH02	Total/NA	Solid	5035	
890-463-2	CH02A	Total/NA	Solid	5035	
MB 880-1404/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1404/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1404/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 1283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-463-1	CH02	Total/NA	Solid	8015NM Prep	
890-463-2	CH02A	Total/NA	Solid	8015NM Prep	
MB 880-1283/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1283/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-463-1	CH02	Total/NA	Solid	8015B NM	1283
890-463-2	CH02A	Total/NA	Solid	8015B NM	1283
MB 880-1283/1-A	Method Blank	Total/NA	Solid	8015B NM	1283
LCS 880-1283/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1283
LCSD 880-1283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1283

HPLC/IC

Leach Batch: 1412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-463-1	CH02	Soluble	Solid	DI Leach	
890-463-2	CH02A	Soluble	Solid	DI Leach	
MB 880-1412/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1412/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1412/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-463-1	CH02	Soluble	Solid	300.0	1412
890-463-2	CH02A	Soluble	Solid	300.0	1412
MB 880-1412/1-A	Method Blank	Soluble	Solid	300.0	1412
LCS 880-1412/2-A	Lab Control Sample	Soluble	Solid	300.0	1412
LCSD 880-1412/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1412

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-463-1
SDG: TE012920072

Client Sample ID: CH02

Lab Sample ID: 890-463-1

Date Collected: 03/30/21 15:20

Matrix: Solid

Date Received: 03/31/21 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1404	04/06/21 16:49	MR	XM
Total/NA	Analysis	8021B		1	1370	04/07/21 06:03	AJ	XM
Total/NA	Prep	8015NM Prep			1283	04/03/21 13:41	DM	XM
Total/NA	Analysis	8015B NM		1	1291	04/05/21 06:04	AJ	XM
Soluble	Leach	DI Leach			1412	04/06/21 19:01	SC	XM
Soluble	Analysis	300.0		1	1523	04/08/21 20:45	CH	XM

Client Sample ID: CH02A

Lab Sample ID: 890-463-2

Date Collected: 03/30/21 15:40

Matrix: Solid

Date Received: 03/31/21 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1404	04/06/21 16:49	MR	XM
Total/NA	Analysis	8021B		1	1370	04/07/21 06:23	AJ	XM
Total/NA	Prep	8015NM Prep			1283	04/03/21 13:41	DM	XM
Total/NA	Analysis	8015B NM		1	1291	04/05/21 06:26	AJ	XM
Soluble	Leach	DI Leach			1412	04/06/21 19:01	SC	XM
Soluble	Analysis	300.0		1	1523	04/08/21 21:00	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: Phantom Bank 25-25-30

Job ID: 890-463-1
SDG: TE012920072

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

- 1
- 2
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- 12
- 13
- 14

Method Summary

Client: WSP USA Inc.
 Project/Site: Phantom Bank 25-25-30

Job ID: 890-463-1
 SDG: TE012920072

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: Phantom Bank 25-25-30

Job ID: 890-463-1
SDG: TE012920072

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-463-1	CH02	Solid	03/30/21 15:20	03/31/21 13:21	- 1
890-463-2	CH02A	Solid	03/30/21 15:40	03/31/21 13:21	- 4

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-463-1
SDG Number: TE012920072

Login Number: 463
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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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-463-1
SDG Number: TE012920072

Login Number: 463
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Midland
List Creation: 04/01/21 11:43 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?	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	

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Environment Testing
America

ANALYTICAL REPORT

Job Number: 890-464-1
SDG Number: TE012920072
Job Description: Phantom Bank 25-25-30

For:
WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, TX 75207
Attention: Dan Moir

A handwritten signature in black ink that reads "JKRAMER".

Approved for release.
Jessica Kramer
Project Manager
4/9/2021 4:42 PM

Jessica Kramer, Project Manager
1211 W. Florida Ave, Midland, TX, 79701
jessica.kramer@eurofinset.com
04/09/2021

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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.

Eurofins Xenco, Carlsbad
1089 N Canal St., Carlsbad, NM 88220
Tel (575) 988-3199 Fax (575) 988-3199 www.EurofinsUS.com



Client: WSP USA Inc.

Project/Site: Phantom Bank 25-25-30

Job ID: 890-464-1

SDG: TE012920072

Lab Sample ID: 890-464-1	890-464-2
Client Sample ID: CH03	CH03A
Matrix: Solid	Solid
Date Collected: 03/30/2021 11:50	03/30/2021 12:10

Method: 8021B - Volatile Organic Compounds (GC)

Prepared: 04/06/2021 16:49	04/06/2021 16:49
Analyzed: 04/07/2021 06:44	04/07/2021 07:04

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Benzene	<0.00202 U	0.00202		<0.00201 U	0.00201
Toluene	<0.00202 U	0.00202		<0.00201 U	0.00201
Ethylbenzene	<0.00202 U	0.00202		<0.00201 U	0.00201
m-Xylene & p-Xylene	<0.00403 U	0.00403		<0.00402 U	0.00402
o-Xylene	<0.00202 U	0.00202		<0.00201 U	0.00201
Xylenes, Total	<0.00403 U	0.00403		<0.00402 U	0.00402
Total BTEX	<0.00202 U	0.00202		<0.00201 U	0.00201

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

Prepared: 04/03/2021 13:41	04/03/2021 13:41
Analyzed: 04/05/2021 06:47	04/05/2021 07:09

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10	<50.0 U	50.0		<50.0 U	50.0
Diesel Range Organics (Over C10-C28)	<50.0 U	50.0		<50.0 U	50.0
Oil Range Organics (Over C28-C36)	<50.0 U	50.0		<50.0 U	50.0
Total TPH	<50.0 U	50.0		<50.0 U	50.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:		
Analyzed: 04/08/2021 21:05	04/08/2021 21:10	

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Chloride		11.6	4.97	9.27	4.95



Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-464-1
Laboratory Sample Delivery Group: TE012920072
Client Project/Site: Phantom Bank 25-25-30

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

Attn: Dan Moir

Authorized for release by:
4/9/2021 4:42:48 PM

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



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

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

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Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Laboratory Job ID: 890-464-1
SDG: TE012920072

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-464-1
SDG: TE012920072

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.
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: Phantom Bank 25-25-30

Job ID: 890-464-1
SDG: TE012920072

Job ID: 890-464-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-464-1

Comments

No additional comments.

Receipt

The samples were received on 3/31/2021 1:21 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 was 0.8° C.

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-1366 and analytical batch 880-1370 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: instrument injection error on CCV

(CCV 880-1370/2)

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

GC Semi VOA

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

General Chemistry

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

Organic Prep

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

VOA Prep

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



Client Sample Results

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-464-1
SDG: TE012920072

Client Sample ID: CH03

Lab Sample ID: 890-464-1

Date Collected: 03/30/21 11:50

Matrix: Solid

Date Received: 03/31/21 13:21

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/06/21 16:49	04/07/21 06:44	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/06/21 16:49	04/07/21 06:44	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/06/21 16:49	04/07/21 06:44	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		04/06/21 16:49	04/07/21 06:44	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/06/21 16:49	04/07/21 06:44	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		04/06/21 16:49	04/07/21 06:44	1
Total BTEX	<0.00202	U	0.00202	mg/Kg		04/06/21 16:49	04/07/21 06:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	04/06/21 16:49	04/07/21 06:44	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/06/21 16:49	04/07/21 06:44	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		04/03/21 13:41	04/05/21 06:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/05/21 06:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/05/21 06:47	1
Total TPH	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/05/21 06:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	04/03/21 13:41	04/05/21 06:47	1
o-Terphenyl	118		70 - 130	04/03/21 13:41	04/05/21 06:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.6		4.97	mg/Kg			04/08/21 21:05	1

Client Sample ID: CH03A

Lab Sample ID: 890-464-2

Date Collected: 03/30/21 12:10

Matrix: Solid

Date Received: 03/31/21 13:21

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/06/21 16:49	04/07/21 07:04	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/06/21 16:49	04/07/21 07:04	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/06/21 16:49	04/07/21 07:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/06/21 16:49	04/07/21 07:04	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/06/21 16:49	04/07/21 07:04	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/06/21 16:49	04/07/21 07:04	1
Total BTEX	<0.00201	U	0.00201	mg/Kg		04/06/21 16:49	04/07/21 07:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/06/21 16:49	04/07/21 07:04	1
1,4-Difluorobenzene (Surr)	95		70 - 130	04/06/21 16:49	04/07/21 07:04	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		04/03/21 13:41	04/05/21 07:09	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Phantom Bank 25-25-30

Job ID: 890-464-1
 SDG: TE012920072

Client Sample ID: CH03A
 Date Collected: 03/30/21 12:10
 Date Received: 03/31/21 13:21

Lab Sample ID: 890-464-2
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/05/21 07:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/05/21 07:09	1
Total TPH	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/05/21 07:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	04/03/21 13:41	04/05/21 07:09	1
o-Terphenyl	118		70 - 130	04/03/21 13:41	04/05/21 07:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.27		4.95	mg/Kg			04/08/21 21:10	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-464-1
SDG: TE012920072

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-464-1	CH03	113	94
890-464-2	CH03A	108	95
LCS 880-1404/1-A	Lab Control Sample	104	105
LCSD 880-1404/2-A	Lab Control Sample Dup	105	106
MB 880-1404/5-A	Method Blank	105	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-464-1	CH03	110	118
890-464-2	CH03A	108	118
LCS 880-1283/2-A	Lab Control Sample	121	116
LCSD 880-1283/3-A	Lab Control Sample Dup	117	113
MB 880-1283/1-A	Method Blank	100	104

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-464-1
SDG: TE012920072

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1404/5-A
Matrix: Solid
Analysis Batch: 1370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1404

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	105		70 - 130	04/06/21 16:49	04/07/21 00:34	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/06/21 16:49	04/07/21 00:34	1

Lab Sample ID: LCS 880-1404/1-A
Matrix: Solid
Analysis Batch: 1370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1404

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	0.100	0.1045		mg/Kg		105	70 - 130
Toluene	0.100	0.09651		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1000		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.1967		mg/Kg		98	70 - 130
o-Xylene	0.100	0.1008		mg/Kg		101	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-1404/2-A
Matrix: Solid
Analysis Batch: 1370

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1404

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	
		Result	Qualifier					RPD	Limit
Benzene	0.100	0.1047		mg/Kg		105	70 - 130	0	35
Toluene	0.100	0.09625		mg/Kg		96	70 - 130	0	35
Ethylbenzene	0.100	0.09959		mg/Kg		100	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1955		mg/Kg		98	70 - 130	1	35
o-Xylene	0.100	0.09893		mg/Kg		99	70 - 130	2	35

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-464-1
SDG: TE012920072

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

Lab Sample ID: MB 880-1283/1-A
Matrix: Solid
Analysis Batch: 1291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1283

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		04/03/21 13:41	04/04/21 22:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/04/21 22:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/04/21 22:41	1
Total TPH	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/04/21 22:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	04/03/21 13:41	04/04/21 22:41	1
o-Terphenyl	104		70 - 130	04/03/21 13:41	04/04/21 22:41	1

Lab Sample ID: LCS 880-1283/2-A
Matrix: Solid
Analysis Batch: 1291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1283

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1072		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1024		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: LCSD 880-1283/3-A
Matrix: Solid
Analysis Batch: 1291

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1283

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1076		mg/Kg		108	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	976.6		mg/Kg		98	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	113		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1412/1-A
Matrix: Solid
Analysis Batch: 1523

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			04/08/21 19:02	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
 Project/Site: Phantom Bank 25-25-30

Job ID: 890-464-1
 SDG: TE012920072

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-1412/2-A
 Matrix: Solid
 Analysis Batch: 1523

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	265.5		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-1412/3-A
 Matrix: Solid
 Analysis Batch: 1523

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	265.3		mg/Kg		106	90 - 110	0	20

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-464-1
SDG: TE012920072

GC VOA

Analysis Batch: 1370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-464-1	CH03	Total/NA	Solid	8021B	1404
890-464-2	CH03A	Total/NA	Solid	8021B	1404
MB 880-1404/5-A	Method Blank	Total/NA	Solid	8021B	1404
LCS 880-1404/1-A	Lab Control Sample	Total/NA	Solid	8021B	1404
LCSD 880-1404/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1404

Prep Batch: 1404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-464-1	CH03	Total/NA	Solid	5035	
890-464-2	CH03A	Total/NA	Solid	5035	
MB 880-1404/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1404/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1404/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 1283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-464-1	CH03	Total/NA	Solid	8015NM Prep	
890-464-2	CH03A	Total/NA	Solid	8015NM Prep	
MB 880-1283/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1283/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-464-1	CH03	Total/NA	Solid	8015B NM	1283
890-464-2	CH03A	Total/NA	Solid	8015B NM	1283
MB 880-1283/1-A	Method Blank	Total/NA	Solid	8015B NM	1283
LCS 880-1283/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1283
LCSD 880-1283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1283

HPLC/IC

Leach Batch: 1412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-464-1	CH03	Soluble	Solid	DI Leach	
890-464-2	CH03A	Soluble	Solid	DI Leach	
MB 880-1412/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1412/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1412/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-464-1	CH03	Soluble	Solid	300.0	1412
890-464-2	CH03A	Soluble	Solid	300.0	1412
MB 880-1412/1-A	Method Blank	Soluble	Solid	300.0	1412
LCS 880-1412/2-A	Lab Control Sample	Soluble	Solid	300.0	1412
LCSD 880-1412/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1412

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: Phantom Bank 25-25-30

Job ID: 890-464-1
 SDG: TE012920072

Client Sample ID: CH03

Lab Sample ID: 890-464-1

Date Collected: 03/30/21 11:50

Matrix: Solid

Date Received: 03/31/21 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1404	04/06/21 16:49	MR	XM
Total/NA	Analysis	8021B		1	1370	04/07/21 06:44	AJ	XM
Total/NA	Prep	8015NM Prep			1283	04/03/21 13:41	DM	XM
Total/NA	Analysis	8015B NM		1	1291	04/05/21 06:47	AJ	XM
Soluble	Leach	DI Leach			1412	04/06/21 19:01	SC	XM
Soluble	Analysis	300.0		1	1523	04/08/21 21:05	CH	XM

Client Sample ID: CH03A

Lab Sample ID: 890-464-2

Date Collected: 03/30/21 12:10

Matrix: Solid

Date Received: 03/31/21 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1404	04/06/21 16:49	MR	XM
Total/NA	Analysis	8021B		1	1370	04/07/21 07:04	AJ	XM
Total/NA	Prep	8015NM Prep			1283	04/03/21 13:41	DM	XM
Total/NA	Analysis	8015B NM		1	1291	04/05/21 07:09	AJ	XM
Soluble	Leach	DI Leach			1412	04/06/21 19:01	SC	XM
Soluble	Analysis	300.0		1	1523	04/08/21 21:10	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: Phantom Bank 25-25-30

Job ID: 890-464-1
SDG: TE012920072

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

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Method Summary

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-464-1
SDG: TE012920072

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: Phantom Bank 25-25-30

Job ID: 890-464-1
SDG: TE012920072

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-464-1	CH03	Solid	03/30/21 11:50	03/31/21 13:21	
890-464-2	CH03A	Solid	03/30/21 12:10	03/31/21 13:21	

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-464-1
SDG Number: TE012920072

Login Number: 464
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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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-464-1
SDG Number: TE012920072

Login Number: 464
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Midland
List Creation: 04/01/21 11:43 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?	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	

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Environment Testing
America

ANALYTICAL REPORT

Job Number: 890-465-1
SDG Number: TE012920072
Job Description: Phantom Bank 25-25-30

For:
WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, TX 75207
Attention: Dan Moir

A handwritten signature in black ink that reads "JKRAMER".

Approved for release.
Jessica Kramer
Project Manager
4/9/2021 4:43 PM

Jessica Kramer, Project Manager
1211 W. Florida Ave, Midland, TX, 79701
jessica.kramer@eurofinset.com
04/09/2021

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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.

Eurofins Xenco, Carlsbad
1089 N Canal St., Carlsbad, NM 88220
Tel (575) 988-3199 Fax (575) 988-3199 www.EurofinsUS.com



Client: WSP USA Inc.

Job ID: 890-465-1

Project/Site: Phantom Bank 25-25-30

SDG: TE012920072

Lab Sample ID: 890-465-1	890-465-2
Client Sample ID: CH04	CH04A
Depth: 1	4
Matrix: Solid	Solid
Date Collected: 03/30/2021 13:30	03/30/2021 13:50

Method: 8021B - Volatile Organic Compounds (GC)

Prepared: 04/06/2021 16:49	04/06/2021 16:49
Analyzed: 04/07/2021 07:24	04/07/2021 07:45

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Benzene	<0.00200 U	0.00200	<0.00200 U	0.00200	
Toluene	<0.00200 U	0.00200	<0.00200 U	0.00200	
Ethylbenzene	<0.00200 U	0.00200	<0.00200 U	0.00200	
m-Xylene & p-Xylene	<0.00401 U	0.00401	<0.00400 U	0.00400	
o-Xylene	<0.00200 U	0.00200	<0.00200 U	0.00200	
Xylenes, Total	<0.00401 U	0.00401	<0.00400 U	0.00400	
Total BTEX	<0.00200 U	0.00200	<0.00200 U	0.00200	

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

Prepared: 04/03/2021 13:41	04/05/2021 09:24
Analyzed: 04/05/2021 07:29	04/05/2021 18:57

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10	<50.1 U	50.1	<49.9 U *+	49.9	
Diesel Range Organics (Over C10-C28)	<50.1 U	50.1	<49.9 U	49.9	
Oil Range Organics (Over C28-C36)	<50.1 U	50.1	<49.9 U	49.9	
Total TPH	<50.1 U	50.1	<49.9 U	49.9	

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:	
Analyzed: 04/08/2021 21:15	04/08/2021 21:20

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Chloride	573	4.96	291	4.98	



Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-465-1
Laboratory Sample Delivery Group: TE012920072
Client Project/Site: Phantom Bank 25-25-30

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

Attn: Dan Moir

Authorized for release by:
4/9/2021 4:44:27 PM

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



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

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

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Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Laboratory Job ID: 890-465-1
SDG: TE012920072

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-465-1
SDG: TE012920072

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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: Phantom Bank 25-25-30

Job ID: 890-465-1
SDG: TE012920072

Job ID: 890-465-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-465-1

Comments

No additional comments.

Receipt

The samples were received on 3/31/2021 1:21 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-1366 and analytical batch 880-1370 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: instrument injection error on CCV

(CCV 880-1370/2)

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

GC Semi VOA

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

General Chemistry

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

Organic Prep

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

VOA Prep

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



Client Sample Results

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-465-1
SDG: TE012920072

Client Sample ID: CH04

Lab Sample ID: 890-465-1

Date Collected: 03/30/21 13:30

Matrix: Solid

Date Received: 03/31/21 13:21

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		04/06/21 16:49	04/07/21 07:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 07:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 07:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/06/21 16:49	04/07/21 07:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 07:24	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/06/21 16:49	04/07/21 07:24	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 07:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	04/06/21 16:49	04/07/21 07:24	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/06/21 16:49	04/07/21 07:24	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	<50.1	U	50.1	mg/Kg		04/03/21 13:41	04/05/21 07:29	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		04/03/21 13:41	04/05/21 07:29	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		04/03/21 13:41	04/05/21 07:29	1
Total TPH	<50.1	U	50.1	mg/Kg		04/03/21 13:41	04/05/21 07:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	04/03/21 13:41	04/05/21 07:29	1
o-Terphenyl	112		70 - 130	04/03/21 13:41	04/05/21 07:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	573		4.96	mg/Kg			04/08/21 21:15	1

Client Sample ID: CH04A

Lab Sample ID: 890-465-2

Date Collected: 03/30/21 13:50

Matrix: Solid

Date Received: 03/31/21 13:21

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 07:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 07:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 07:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/06/21 16:49	04/07/21 07:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 07:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/06/21 16:49	04/07/21 07:45	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 07:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	04/06/21 16:49	04/07/21 07:45	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/06/21 16:49	04/07/21 07:45	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Phantom Bank 25-25-30

Job ID: 890-465-1
 SDG: TE012920072

Client Sample ID: CH04A

Lab Sample ID: 890-465-2

Date Collected: 03/30/21 13:50

Matrix: Solid

Date Received: 03/31/21 13:21

Sample Depth: - 4

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		04/05/21 09:24	04/05/21 18:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/05/21 09:24	04/05/21 18:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/05/21 09:24	04/05/21 18:57	1
Total TPH	<49.9	U	49.9	mg/Kg		04/05/21 09:24	04/05/21 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	04/05/21 09:24	04/05/21 18:57	1
o-Terphenyl	123		70 - 130	04/05/21 09:24	04/05/21 18:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	291		4.98	mg/Kg			04/08/21 21:20	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-465-1
SDG: TE012920072

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)
890-465-1	CH04	111	102
890-465-2	CH04A	116	98
LCS 880-1404/1-A	Lab Control Sample	104	105
LCSD 880-1404/2-A	Lab Control Sample Dup	105	106
MB 880-1404/5-A	Method Blank	105	97

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)
890-465-1	CH04	108	112
890-465-2	CH04A	113	123
LCS 880-1283/2-A	Lab Control Sample	121	116
LCS 880-1303/2-A	Lab Control Sample	114	111
LCSD 880-1283/3-A	Lab Control Sample Dup	117	113
LCSD 880-1303/3-A	Lab Control Sample Dup	114	106
MB 880-1283/1-A	Method Blank	100	104
MB 880-1303/1-A	Method Blank	112	124

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-465-1
SDG: TE012920072

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1404/5-A
Matrix: Solid
Analysis Batch: 1370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1404

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	105		70 - 130	04/06/21 16:49	04/07/21 00:34	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/06/21 16:49	04/07/21 00:34	1

Lab Sample ID: LCS 880-1404/1-A
Matrix: Solid
Analysis Batch: 1370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1404

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	0.100	0.1045		mg/Kg		105	70 - 130
Toluene	0.100	0.09651		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1000		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.1967		mg/Kg		98	70 - 130
o-Xylene	0.100	0.1008		mg/Kg		101	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-1404/2-A
Matrix: Solid
Analysis Batch: 1370

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1404

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	
		Result	Qualifier					RPD	Limit
Benzene	0.100	0.1047		mg/Kg		105	70 - 130	0	35
Toluene	0.100	0.09625		mg/Kg		96	70 - 130	0	35
Ethylbenzene	0.100	0.09959		mg/Kg		100	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1955		mg/Kg		98	70 - 130	1	35
o-Xylene	0.100	0.09893		mg/Kg		99	70 - 130	2	35

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-465-1
SDG: TE012920072

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

Lab Sample ID: MB 880-1283/1-A
Matrix: Solid
Analysis Batch: 1291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1283

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		04/03/21 13:41	04/04/21 22:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/04/21 22:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/04/21 22:41	1
Total TPH	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/04/21 22:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	04/03/21 13:41	04/04/21 22:41	1
o-Terphenyl	104		70 - 130	04/03/21 13:41	04/04/21 22:41	1

Lab Sample ID: LCS 880-1283/2-A
Matrix: Solid
Analysis Batch: 1291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1283

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1072		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1024		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: LCSD 880-1283/3-A
Matrix: Solid
Analysis Batch: 1291

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1283

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1076		mg/Kg		108	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	976.6		mg/Kg		98	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: MB 880-1303/1-A
Matrix: Solid
Analysis Batch: 1310

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1303

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		04/05/21 09:24	04/05/21 15:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/05/21 09:24	04/05/21 15:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/05/21 09:24	04/05/21 15:03	1
Total TPH	<50.0	U	50.0	mg/Kg		04/05/21 09:24	04/05/21 15:03	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-465-1
SDG: TE012920072

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	04/05/21 09:24	04/05/21 15:03	1
o-Terphenyl	124		70 - 130	04/05/21 09:24	04/05/21 15:03	1

Lab Sample ID: LCS 880-1303/2-A
Matrix: Solid
Analysis Batch: 1310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1303

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1426	*+	mg/Kg		143	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1198		mg/Kg		120	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: LCSD 880-1303/3-A
Matrix: Solid
Analysis Batch: 1310

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1303

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1308	*+	mg/Kg		131	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	1154		mg/Kg		115	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	106		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1412/1-A
Matrix: Solid
Analysis Batch: 1523

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			04/08/21 19:02	1

Lab Sample ID: LCS 880-1412/2-A
Matrix: Solid
Analysis Batch: 1523

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	265.5		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-1412/3-A
Matrix: Solid
Analysis Batch: 1523

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	265.3		mg/Kg		106	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-465-1
SDG: TE012920072

GC VOA

Analysis Batch: 1370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-465-1	CH04	Total/NA	Solid	8021B	1404
890-465-2	CH04A	Total/NA	Solid	8021B	1404
MB 880-1404/5-A	Method Blank	Total/NA	Solid	8021B	1404
LCS 880-1404/1-A	Lab Control Sample	Total/NA	Solid	8021B	1404
LCSD 880-1404/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1404

Prep Batch: 1404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-465-1	CH04	Total/NA	Solid	5035	
890-465-2	CH04A	Total/NA	Solid	5035	
MB 880-1404/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1404/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1404/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 1283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-465-1	CH04	Total/NA	Solid	8015NM Prep	
MB 880-1283/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1283/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-465-1	CH04	Total/NA	Solid	8015B NM	1283
MB 880-1283/1-A	Method Blank	Total/NA	Solid	8015B NM	1283
LCS 880-1283/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1283
LCSD 880-1283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1283

Prep Batch: 1303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-465-2	CH04A	Total/NA	Solid	8015NM Prep	
MB 880-1303/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1303/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1303/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-465-2	CH04A	Total/NA	Solid	8015B NM	1303
MB 880-1303/1-A	Method Blank	Total/NA	Solid	8015B NM	1303
LCS 880-1303/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1303
LCSD 880-1303/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1303

HPLC/IC

Leach Batch: 1412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-465-1	CH04	Soluble	Solid	DI Leach	
890-465-2	CH04A	Soluble	Solid	DI Leach	
MB 880-1412/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1412/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-465-1
SDG: TE012920072

HPLC/IC (Continued)

Leach Batch: 1412 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-1412/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-465-1	CH04	Soluble	Solid	300.0	1412
890-465-2	CH04A	Soluble	Solid	300.0	1412
MB 880-1412/1-A	Method Blank	Soluble	Solid	300.0	1412
LCS 880-1412/2-A	Lab Control Sample	Soluble	Solid	300.0	1412
LCSD 880-1412/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1412

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: Phantom Bank 25-25-30

Job ID: 890-465-1
 SDG: TE012920072

Client Sample ID: CH04

Lab Sample ID: 890-465-1

Date Collected: 03/30/21 13:30

Matrix: Solid

Date Received: 03/31/21 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1404	04/06/21 16:49	MR	XM
Total/NA	Analysis	8021B		1	1370	04/07/21 07:24	AJ	XM
Total/NA	Prep	8015NM Prep			1283	04/03/21 13:41	DM	XM
Total/NA	Analysis	8015B NM		1	1291	04/05/21 07:29	AJ	XM
Soluble	Leach	DI Leach			1412	04/06/21 19:01	SC	XM
Soluble	Analysis	300.0		1	1523	04/08/21 21:15	CH	XM

Client Sample ID: CH04A

Lab Sample ID: 890-465-2

Date Collected: 03/30/21 13:50

Matrix: Solid

Date Received: 03/31/21 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1404	04/06/21 16:49	MR	XM
Total/NA	Analysis	8021B		1	1370	04/07/21 07:45	AJ	XM
Total/NA	Prep	8015NM Prep			1303	04/05/21 09:24	DM	XM
Total/NA	Analysis	8015B NM		1	1310	04/05/21 18:57	AJ	XM
Soluble	Leach	DI Leach			1412	04/06/21 19:01	SC	XM
Soluble	Analysis	300.0		1	1523	04/08/21 21:20	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: Phantom Bank 25-25-30

Job ID: 890-465-1
SDG: TE012920072

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

- 1
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- 10
- 11
- 12
- 13
- 14

Method Summary

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-465-1
SDG: TE012920072

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: Phantom Bank 25-25-30

Job ID: 890-465-1
SDG: TE012920072

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-465-1	CH04	Solid	03/30/21 13:30	03/31/21 13:21	- 1
890-465-2	CH04A	Solid	03/30/21 13:50	03/31/21 13:21	- 4

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- 13
- 14



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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Tecora	Bill to: (if different)	Kyle Litrell
Company Name:	WSP USA Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 704-5178	Email:	travis.casey@wsp.com, kalej.jennings@wsp.com, dan.moir@wsp.com

Program:	UST/PST	<input type="checkbox"/> PRP	<input type="checkbox"/> Brownfields	<input type="checkbox"/> RC	<input type="checkbox"/> Superfund
State of Project:	NM				
Reporting Level:	Level II	<input type="checkbox"/> Level III	<input type="checkbox"/> PST/UST	<input type="checkbox"/> RRP	<input type="checkbox"/> Level IV
Deliverables:	EDD	<input type="checkbox"/> ADaPT	<input type="checkbox"/> Other:		

Project Name:	Plumber Back 25-25-30	Turn Around	
Project Number:	TE212920072	Routine	X
P.O. Number:	WRA 201.245.3444	Rush:	
Sampler's Name:	Travis Casey	Due Date:	

SAMPLE RECEIPT	Temp Blank:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Wet Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Temperature (°C):	1010.8	Thermometer ID				
Received Inact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	TNUM-007			
Cooler Custody Seals:	Yes	<input checked="" type="checkbox"/> No	Correction Factor:			
Sample Custody Seals:	Yes	<input checked="" type="checkbox"/> No	Total Containers:			



Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers			Sample Comments
					TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	
CH01	S	3-30-21	1330	1'	1	1	1	
CH04	S	3-30-21	1350	4'	1	1	1	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed: TGLP-1-SPLP-0010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	Gabby Ordonez	3/31/21 13:21			

Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)

Client Contact:
Shipping/Receiving:
Company: Eurofins Xenco

Sampler:
Phone:
E-Mail: jessica.kramer@eurofinsnet.com

Lab PM: Kramer Jessica

Carrier Tracking No(s):
State of Origin: New Mexico

COC No: 890-142-1
Page: Page 1 of 1

Address: 1211 W. Florida Ave
City: Midland
State Zip: TX 79701
Phone: 432-704-5440(Tel)
Email:
Project Name: Phantom Bank 25-25-30
Site:
Project #: 89000004
SSOW#:

Due Date Requested: 4/6/2021
TAT Requested (days):
PO #:
W/O #:

Analysis Requested

Preservation Codes:
A. HCL
B. NaOH
C. Zn Acetate
D. Nitric Acid
E. NaHSO4
F. MeOH
G. Amthior
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)

Sample Identification - Client ID (Lab ID)

Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
CH04 (890-465-1)	3/30/21	13:30	Mountain	Solid	X	X	1	
CH04A (890-465-2)	3/30/21	13:50	Mountain	Solid	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontracted 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/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.

Possible Hazard Identification

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Return To Client Disposal By Lab Archive For _____ Months
Special Instructions/QC Requirements:

Empty Kit Relinquished by:
Date:
Company:
Received by:
Date/Time:
Company:

Relinquished by:
Date/Time:
Company:

Relinquished by:
Date/Time:
Company:

Custody Seals Intact:
Custody Seal No:
Colder Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-465-1
SDG Number: TE012920072

Login Number: 465
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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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-465-1
SDG Number: TE012920072

Login Number: 465
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Midland
List Creation: 04/01/21 11:42 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?	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	

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Environment Testing
America

ANALYTICAL REPORT

Job Number: 890-466-1
SDG Number: TE012920072
Job Description: Phantom Bank 25-25-30

For:
WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, TX 75207
Attention: Dan Moir

A handwritten signature in black ink that reads "JKRAMER".

Approved for release.
Jessica Kramer
Project Manager
4/9/2021 4:45 PM

Jessica Kramer, Project Manager
1211 W. Florida Ave, Midland, TX, 79701
jessica.kramer@eurofinset.com
04/09/2021

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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.

Eurofins Xenco, Carlsbad
1089 N Canal St., Carlsbad, NM 88220
Tel (575) 988-3199 Fax (575) 988-3199 www.EurofinsUS.com



Client: WSP USA Inc.

Job ID: 890-466-1

Project/Site: Phantom Bank 25-25-30

SDG: TE012920072

Lab Sample ID:	890-466-1	890-466-2
Client Sample ID:	CH05	CH05A
Depth:	1	4
Matrix:	Solid	Solid
Date Collected:	03/30/2021 11:15	03/30/2021 11:40

Method: 8021B - Volatile Organic Compounds (GC)

Prepared:	04/08/2021 10:10	04/08/2021 10:10
Analyzed:	04/08/2021 22:31	04/08/2021 22:56

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00200 U	0.00200	<0.00199 U	0.00199
Toluene		<0.00200 U	0.00200	<0.00199 U	0.00199
Ethylbenzene		<0.00200 U	0.00200	<0.00199 U	0.00199
m-Xylene & p-Xylene		<0.00399 U	0.00399	<0.00398 U	0.00398
o-Xylene		<0.00200 U	0.00200	<0.00199 U	0.00199
Xylenes, Total		<0.00399 U	0.00399	<0.00398 U	0.00398
Total BTEX		<0.00200 U	0.00200	<0.00199 U	0.00199

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

Prepared:	04/05/2021 09:24	04/05/2021 09:24
Analyzed:	04/05/2021 19:19	04/05/2021 19:40

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10		<49.8 U **	49.8	<50.0 U **	50.0
Diesel Range Organics (Over C10-C28)		55.8	49.8	<50.0 U	50.0
Oil Range Organics (Over C28-C36)		<49.8 U	49.8	<50.0 U	50.0
Total TPH		55.8	49.8	<50.0 U	50.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:		
Analyzed:	04/08/2021 21:25	04/08/2021 21:30

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Chloride		48.9	4.98	11.6	4.99



Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-466-1
Laboratory Sample Delivery Group: TE012920072
Client Project/Site: Phantom Bank 25-25-30

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

Attn: Dan Moir

Authorized for release by:
4/9/2021 4:45:40 PM

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



LINKS

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results through
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Have a Question?



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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.

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Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Laboratory Job ID: 890-466-1
SDG: TE012920072

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-466-1
SDG: TE012920072

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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: Phantom Bank 25-25-30

Job ID: 890-466-1
SDG: TE012920072

Job ID: 890-466-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

**Job Narrative
890-466-1**

Receipt

The samples were received on 3/31/2021 1:21 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 0.8°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: Phantom Bank 25-25-30

Job ID: 890-466-1
SDG: TE012920072

Client Sample ID: CH05

Lab Sample ID: 890-466-1

Date Collected: 03/30/21 11:15

Matrix: Solid

Date Received: 03/31/21 13:21

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		04/08/21 10:10	04/08/21 22:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/08/21 10:10	04/08/21 22:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/08/21 10:10	04/08/21 22:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/08/21 10:10	04/08/21 22:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/08/21 10:10	04/08/21 22:31	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/08/21 10:10	04/08/21 22:31	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/08/21 10:10	04/08/21 22:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	04/08/21 10:10	04/08/21 22:31	1
1,4-Difluorobenzene (Surr)	82		70 - 130	04/08/21 10:10	04/08/21 22:31	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		04/05/21 09:24	04/05/21 19:19	1
Diesel Range Organics (Over C10-C28)	55.8		49.8	mg/Kg		04/05/21 09:24	04/05/21 19:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/05/21 09:24	04/05/21 19:19	1
Total TPH	55.8		49.8	mg/Kg		04/05/21 09:24	04/05/21 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	04/05/21 09:24	04/05/21 19:19	1
o-Terphenyl	111		70 - 130	04/05/21 09:24	04/05/21 19:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.9		4.98	mg/Kg			04/08/21 21:25	1

Client Sample ID: CH05A

Lab Sample ID: 890-466-2

Date Collected: 03/30/21 11:40

Matrix: Solid

Date Received: 03/31/21 13:21

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/08/21 10:10	04/08/21 22:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/08/21 10:10	04/08/21 22:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/08/21 10:10	04/08/21 22:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/08/21 10:10	04/08/21 22:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/08/21 10:10	04/08/21 22:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/08/21 10:10	04/08/21 22:56	1
Total BTEX	<0.00199	U	0.00199	mg/Kg		04/08/21 10:10	04/08/21 22:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	04/08/21 10:10	04/08/21 22:56	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/08/21 10:10	04/08/21 22:56	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Phantom Bank 25-25-30

Job ID: 890-466-1
 SDG: TE012920072

Client Sample ID: CH05A

Lab Sample ID: 890-466-2

Date Collected: 03/30/21 11:40

Matrix: Solid

Date Received: 03/31/21 13:21

Sample Depth: - 4

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		04/05/21 09:24	04/05/21 19:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/05/21 09:24	04/05/21 19:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/05/21 09:24	04/05/21 19:40	1
Total TPH	<50.0	U	50.0	mg/Kg		04/05/21 09:24	04/05/21 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	04/05/21 09:24	04/05/21 19:40	1
o-Terphenyl	112		70 - 130	04/05/21 09:24	04/05/21 19:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.6		4.99	mg/Kg			04/08/21 21:30	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-466-1
SDG: TE012920072

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)
890-466-1	CH05	121	82
890-466-2	CH05A	113	94
LCS 880-1506/1-A	Lab Control Sample	101	96
LCSD 880-1506/2-A	Lab Control Sample Dup	110	112
MB 880-1506/5-A	Method Blank	75	83

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)
890-466-1	CH05	110	111
890-466-2	CH05A	109	112
LCS 880-1303/2-A	Lab Control Sample	114	111
LCSD 880-1303/3-A	Lab Control Sample Dup	114	106
MB 880-1303/1-A	Method Blank	112	124

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-466-1
SDG: TE012920072

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1506/5-A
Matrix: Solid
Analysis Batch: 1508

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1506

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/08/21 10:10	04/08/21 16:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/08/21 10:10	04/08/21 16:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/08/21 10:10	04/08/21 16:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/08/21 10:10	04/08/21 16:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/08/21 10:10	04/08/21 16:14	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/08/21 10:10	04/08/21 16:14	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/08/21 10:10	04/08/21 16:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	04/08/21 10:10	04/08/21 16:14	1
1,4-Difluorobenzene (Surr)	83		70 - 130	04/08/21 10:10	04/08/21 16:14	1

Lab Sample ID: LCS 880-1506/1-A
Matrix: Solid
Analysis Batch: 1508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1506

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1038		mg/Kg		104	70 - 130
Toluene	0.100	0.1129		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1056		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2152		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1146		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-1506/2-A
Matrix: Solid
Analysis Batch: 1508

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1506

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1103		mg/Kg		110	70 - 130	6	35
Toluene	0.100	0.1052		mg/Kg		105	70 - 130	7	35
Ethylbenzene	0.100	0.1110		mg/Kg		111	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2278		mg/Kg		114	70 - 130	6	35
o-Xylene	0.100	0.1231		mg/Kg		123	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-466-1
SDG: TE012920072

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

Lab Sample ID: MB 880-1303/1-A
Matrix: Solid
Analysis Batch: 1310

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1303

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		04/05/21 09:24	04/05/21 15:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/05/21 09:24	04/05/21 15:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/05/21 09:24	04/05/21 15:03	1
Total TPH	<50.0	U	50.0	mg/Kg		04/05/21 09:24	04/05/21 15:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	04/05/21 09:24	04/05/21 15:03	1
o-Terphenyl	124		70 - 130	04/05/21 09:24	04/05/21 15:03	1

Lab Sample ID: LCS 880-1303/2-A
Matrix: Solid
Analysis Batch: 1310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1303

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1426	*+	mg/Kg		143	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1198		mg/Kg		120	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: LCSD 880-1303/3-A
Matrix: Solid
Analysis Batch: 1310

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1303

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1308	*+	mg/Kg		131	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	1154		mg/Kg		115	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	106		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1412/1-A
Matrix: Solid
Analysis Batch: 1523

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			04/08/21 19:02	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
 Project/Site: Phantom Bank 25-25-30

Job ID: 890-466-1
 SDG: TE012920072

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-1412/2-A
 Matrix: Solid
 Analysis Batch: 1523

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	265.5		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-1412/3-A
 Matrix: Solid
 Analysis Batch: 1523

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	265.3		mg/Kg		106	90 - 110	0	20

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-466-1
SDG: TE012920072

GC VOA

Prep Batch: 1506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-466-1	CH05	Total/NA	Solid	5035	
890-466-2	CH05A	Total/NA	Solid	5035	
MB 880-1506/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1506/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1506/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 1508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-466-1	CH05	Total/NA	Solid	8021B	1506
890-466-2	CH05A	Total/NA	Solid	8021B	1506
MB 880-1506/5-A	Method Blank	Total/NA	Solid	8021B	1506
LCS 880-1506/1-A	Lab Control Sample	Total/NA	Solid	8021B	1506
LCSD 880-1506/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1506

GC Semi VOA

Prep Batch: 1303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-466-1	CH05	Total/NA	Solid	8015NM Prep	
890-466-2	CH05A	Total/NA	Solid	8015NM Prep	
MB 880-1303/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1303/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1303/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-466-1	CH05	Total/NA	Solid	8015B NM	1303
890-466-2	CH05A	Total/NA	Solid	8015B NM	1303
MB 880-1303/1-A	Method Blank	Total/NA	Solid	8015B NM	1303
LCS 880-1303/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1303
LCSD 880-1303/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1303

HPLC/IC

Leach Batch: 1412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-466-1	CH05	Soluble	Solid	DI Leach	
890-466-2	CH05A	Soluble	Solid	DI Leach	
MB 880-1412/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1412/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1412/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-466-1	CH05	Soluble	Solid	300.0	1412
890-466-2	CH05A	Soluble	Solid	300.0	1412
MB 880-1412/1-A	Method Blank	Soluble	Solid	300.0	1412
LCS 880-1412/2-A	Lab Control Sample	Soluble	Solid	300.0	1412
LCSD 880-1412/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1412

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: Phantom Bank 25-25-30

Job ID: 890-466-1
 SDG: TE012920072

Client Sample ID: CH05

Lab Sample ID: 890-466-1

Date Collected: 03/30/21 11:15

Matrix: Solid

Date Received: 03/31/21 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1506	04/08/21 10:10	MR	XM
Total/NA	Analysis	8021B		1	1508	04/08/21 22:31	AJ	XM
Total/NA	Prep	8015NM Prep			1303	04/05/21 09:24	DM	XM
Total/NA	Analysis	8015B NM		1	1310	04/05/21 19:19	AJ	XM
Soluble	Leach	DI Leach			1412	04/06/21 19:01	SC	XM
Soluble	Analysis	300.0		1	1523	04/08/21 21:25	CH	XM

Client Sample ID: CH05A

Lab Sample ID: 890-466-2

Date Collected: 03/30/21 11:40

Matrix: Solid

Date Received: 03/31/21 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1506	04/08/21 10:10	MR	XM
Total/NA	Analysis	8021B		1	1508	04/08/21 22:56	AJ	XM
Total/NA	Prep	8015NM Prep			1303	04/05/21 09:24	DM	XM
Total/NA	Analysis	8015B NM		1	1310	04/05/21 19:40	AJ	XM
Soluble	Leach	DI Leach			1412	04/06/21 19:01	SC	XM
Soluble	Analysis	300.0		1	1523	04/08/21 21:30	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: Phantom Bank 25-25-30

Job ID: 890-466-1
SDG: TE012920072

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

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Method Summary

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-466-1
SDG: TE012920072

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: Phantom Bank 25-25-30

Job ID: 890-466-1
SDG: TE012920072

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-466-1	CH05	Solid	03/30/21 11:15	03/31/21 13:21	- 1
890-466-2	CH05A	Solid	03/30/21 11:40	03/31/21 13:21	- 4

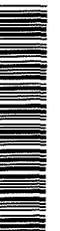
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Eurofins Xenco, Carlsbad

1089 N Canal St
 Carlsbad NM 88220
 Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)

Client Contact: Shipping/Receiving
 Company: Eurofins Xenco
 Address: 1211 W Florida Ave
 City: Midland
 State, Zip: TX, 79701
 Phone: 432-704-5440(Tel)
 Email: [blank]
 Project Name: Phantom Bank 25-25-30
 Site: [blank]

Sampler: [blank]
 Phone: [blank]
 E-Mail: jessica.kramer@eurofinsnet.com

Lab PM: Kramer, Jessica
 Accreditations Required (See note): NELAP - Louisiana NELAP - Texas

Carrier/Tracking No(s): [blank]
 State of Origin: New Mexico

COC No: 890-142-1
 Page: Page 1 of 1
 Job #: 890-466-1

Due Date Requested: 4/6/2021
 TAT Requested (days): [blank]

Analysis Requested

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=wastewater, BT=Issue, A=lab)	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/6035FP_Calc BTEX	Total Number of containers	Special Instructions/Note
CH05 (890-466-1)	3/30/21	11 15		Solid	X	X	X	X	X	1	
CH05A (890-466-2)	3/30/21	11 40	Mountain	Solid	X	X	X	X	X	1	

Possible Hazard Identification

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analysis & 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/less/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by: [blank] Date: [blank] Time: [blank] Method of Shipment: [blank]

Relinquished by: *Coe Corp* 3.31.21 Date/Time: [blank] Company: [blank]
 Relinquished by: *William Taylor* Date/Time: 4-1-21 11:30am Company: [blank]

Relinquished by: [blank] Date/Time: [blank] Company: [blank]
 Relinquished by: [blank] Date/Time: [blank] Company: [blank]

Custody Seals Intact: Yes No Custody Seal No: [blank]
 Cooler Temperature(s) °C and Other Remarks: [blank]

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-466-1
SDG Number: TE012920072

Login Number: 466
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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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-466-1
SDG Number: TE012920072

Login Number: 466
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Midland
List Creation: 04/01/21 11:42 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?	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	

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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 30639

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 30639
	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 #NAPP2109735302 PLU PB 25-25-30 BATTERY, thank you. This closure is approved.	7/28/2021