District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Page 1 of 140

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

Longitude

Latitude		

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

(NAD 83 in decimal degrees to 5 decimal places)

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)

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

Incident ID

District RP Facility ID Application ID

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
19.15.29.7(A) NMAC?	
🗌 Yes 🗌 No	
If YES, was immediate ne	otice 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

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

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

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: Advion Dats	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

Page 2

Location:	PLU PB 25-25-30		
Spill Date:	3/24/2021		
	Area 1		
Approximate A	rea =	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

Received by OCD: 6/4/2021 11:07:34 AM Form C-141 State of New Mexico

Oil Conservation Division

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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.

Received by OCD: 6/4/20	21 11:07:34 AM State of New Mexic	20		Page 5 of 140
			Incident ID	NRM2109735302
Page 4	Oil Conservation Divi	sion	District RP	
			Facility ID	
			Application II)
regulations all operators ar public health or the environ failed to adequately investi addition, OCD acceptance and/or regulations. Printed Name: Signature: email:Kyle_Lit	Tormation given above is true and complete e required to report and/or file certain releanment. The acceptance of a C-141 report b gate and remediate contamination that post of a C-141 report does not relieve the oper <u>Kyle Littrell</u> <u>Kyle Amode</u> trell@exxonmobil.com	ase notifications and perfo by the OCD does not relie te a threat to groundwater, rator of responsibility for Title:En Date:5/28	orm corrective actions for we the operator of liability , surface water, human he	releases which may endanger y should their operations have alth or the environment. In er federal, state, or local laws
OCD Only Received by:		Date:		

Page 6

Oil Conservation Division

Incident ID	NRM2109735302
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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.

<u>Closure Report Attachment Checklist</u>: Each of the following	items must be includ	ed 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 OD	C District office mus	t be notified 2 days prior to final sampling)			
Description of remediation activities					
I hereby certify that the information given above is true and comple and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the co- accordance with 19.15.29.13 NMAC including notification to the O	n release notification a C-141 report by the mediate contamination a C-141 report does ations. The responsi- onditions that existed	as and perform corrective actions for releases which the OCD does not relieve the operator of liability on that pose a threat to groundwater, surface water, not relieve the operator of responsibility for ble party acknowledges they must substantially prior to the release or their final land use in			
Printed Name: Kyle Littrell	Title:	Environmental Manager			
Signature:	Date: <u>5/28/2</u>	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 remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and	water, human health,				
Closure Approved by:	Date:				
Printed Name:	Title:				

Page 6

Oil Conservation Division

	Page 7 of 14	10
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.

<u>Closure Report Attachment Checklist</u> : Each of the following	items must be included in the closure report.				
\square A scaled site and sampling diagram as described in 19.15.29.	A scaled site and sampling diagram as described in 19.15.29.11 NMAC				
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	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 OD	C District office must be notified 2 days prior to final sampling)				
Description of remediation activities					
and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in				
Printed Name: Kyle Littrell					
Signature:	Date: <u>5/28/202</u> 1				
email:Kyle_Littrell@exxonmobil.com	Telephone:432-221-7331				
OCD Only					
Received by: <u>Robert Hamlet</u>	Date:7/28/2021				
	v of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations.				
Closure Approved by: <u>Robert Hamlet</u>	Date: <u>7/28/2021</u>				
Printed Name: <u>Robert Hamlet</u>	Title:Environmental Specialist - Advanced				

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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

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District II Page 2

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

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District II Page 3

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 photoionization 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.

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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.

Kaleb Henry

Kaleb Henry Assistant Consultant, Geologist

Ashley L. Ager

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

cc: Kyle Littrell, XTO Bureau of Land Management

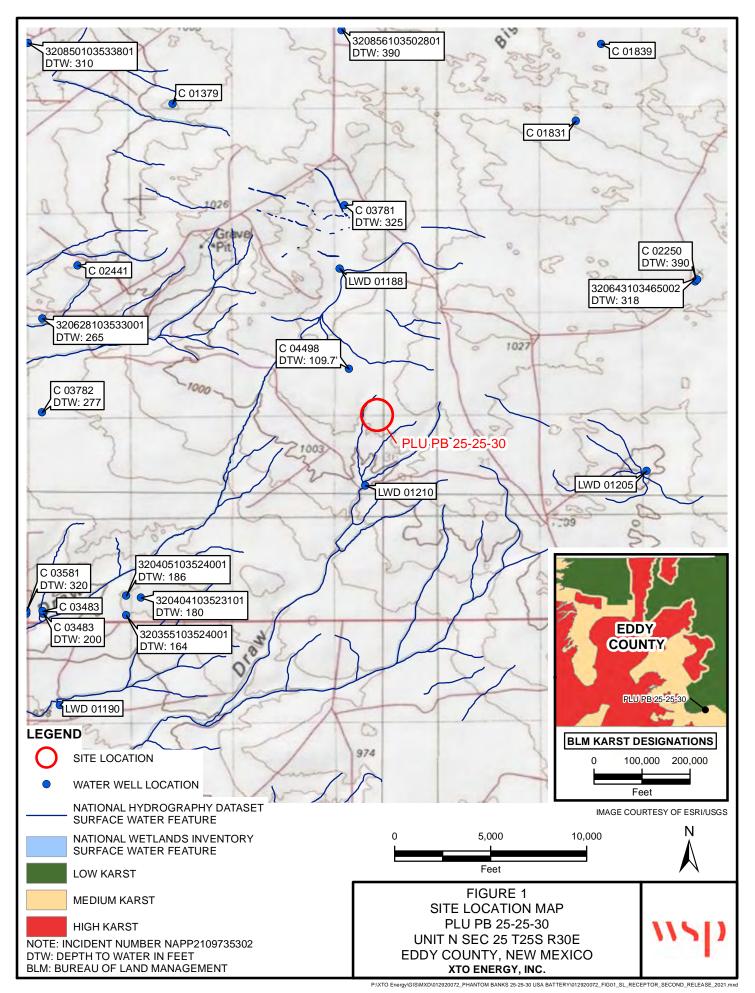
Attachments:

- Figure 1 Site Location Map
- Figure 2 Delineation Soil Sample Locations
- Table 1Soil Analytical Results
- Attachment 1 Referenced Well Records

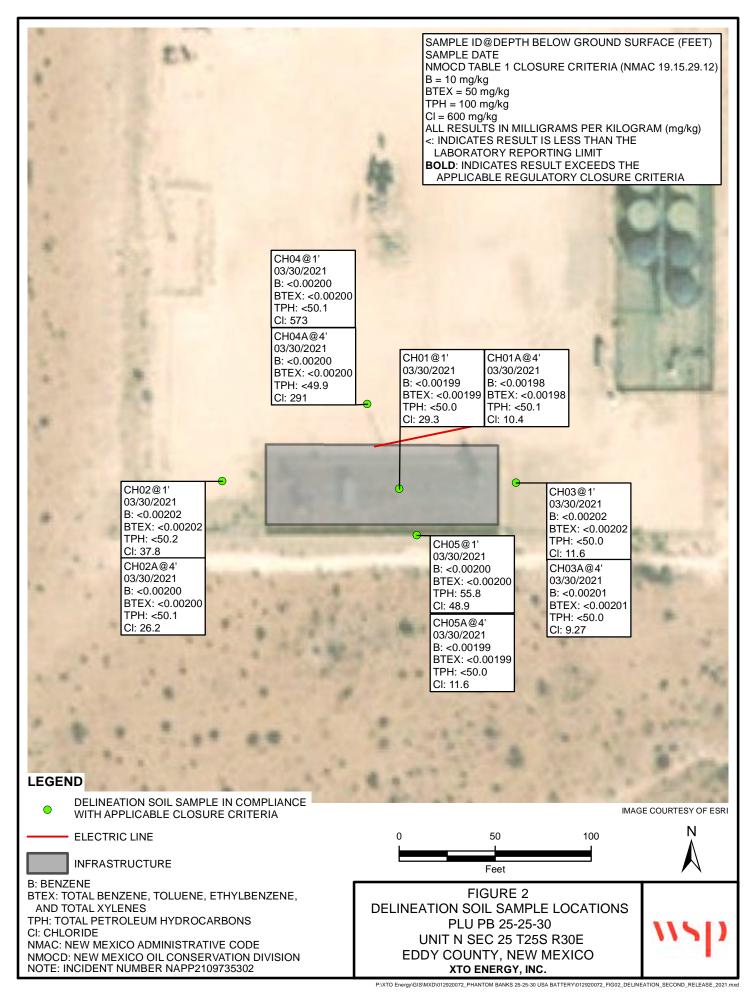
Attachment 2 Lithologic/Sampling Logs

- Attachment 3 Photographic Log
- Attachment 4 Laboratory Analytical Reports

FIGUR



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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 Clo	osure Criteria (NMA	AC 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

.

A CONTRACTOR OF	Number 3781 POD1	Q64 Q	s are smalle 16 Q4 S	2 NE 3 SW st to largest) Sec Tws 1 13 25S	(N) Rng	ADS3 (11M. in mitters) X Y 9306 3554761	
Driller License: Driller Name:	331	Driller C	ompany	SBQ CO.	2, LLC DB	A STEWART BRO	THERS DRILLIN
Drill Start Date:	01/08/2015	Drill Fin	ish Date:	01	10/2015	Plug Date:	
Log File Date:	02/19/2015	PCW Re	v Date:			Source:	Artesian
Pump Type:		Pipe Disc	harge Si	ize:		Estimated Yie	ld:
Casing Size:	8.63	Depth W			0 feet	Depth Water:	325 feet
Wate	er Bearing Stratifi	cations:	Top	Bottom	Descriptio	n	
			200	370	Sandstone	Gravel/Conglomer	rate
			370	390	Sandstone	Gravel Conglomer	rate
			390	410	Sandstone	Gravel/Conglomer	rate
			410	440	Sandstone	Gravel/Conglomer	rate
			440			stone Siltstone	
			460			stone/Siltstone	
			470			stone/Siltstone	
			490			stone/Siltstone	
			500			Gravel/Conglomer	rate
			510			stone/Siltstone	
			530			stone Siltstone	
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			700			stone/Siltstone	

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concerning the accuracy, completeness, reliability, insubility, or suitability for any particular purpose of the data



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

Lacon Middlan

Lucas Middleton

Enclosures: as noted above

CSE 017 MAR 11 2021 #4122



PAGE 1 OF 2

WELL TAG ID NO.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER www.ose.state.nm.us

055 DII / AR 11 2021 PM4:22

-								1002		
NO	OSE POD NO. (W POD1 (BH-0)	WELL TAG ID NO. 11/a		OSE FILE NO() C-4498	S).	H X A		
OCATI	WELL OWNER N XTO Energy (.ittrell)			PHONE (OPTIONAL)				
WELL I	well OWNER M 6401 Holiday					CITYSTATEZIPMidlandTX79707				
1. GENERAL AND WELL LOCATION	WELL LOCATION (FROM GPS) DESCRIPTION F NW SW NE S	LON	ITUDE IGITUDE - G WELL LOCATION TO	32° 6'	3CONDS 1.96" N 26.19" W	* DATUM REC	REQUIRED: ONE TENT QUIRED: WGS \$4 WNSHJIP, RANGE) WHI			
	LICENSE NO. 1249		NAME OF LICENSED	DRILLER Jackie D. Atkins			NAME OF WELL DRI Atkins Eng	LLING COMPANY incering Associates, In	nc.	
	DRILLING STAR 02/24/202		DRILLING ENDED 02/24/2021	DEPTH OF COMPLETED WELL (FT) temporary well material		le depth (ft) 109		ST ENCOUNTERED (FT) n/a		
N	COMPLETED WELL IS: ARTESIAN / DRY HOLE SHALLOW (UNCONFINED) TATIC WATER LEVEL IN COMPL								LL (FT)	
OIL	DRILLING FLUI	D:	AIR	MUD ADDITIVES -	SPECIFY:		·			
RM	DRILLING METHOD: TROTARY HAMMER CABLE TOOL TOTH						ER – SPECIFY: Hollow Stem Auger			
CASING INFORMATION	FROM TO DIAM (include each ca		CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	GRADE CA each casing string, and T		CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)		
	0	109	±6.5	Boring- HSA		-	-	-		
2. DRILLING &										
	DEPTH (fee	t bgl)	BORE HOLE	LIST ANNULAR SEAL			AMOUNT	METHO		
TERIAL	FROM	то	DIAM. (inches)	GRAVEL PACK SIZE-RA	NGE BY INTE	ERVAL	(cubic feet)	PLACEM	ENT	
3. ANNULAR MATERIAL										
FOR	OSE INTERNA	L USE		POD NO.		WR-20		LOG (Version 06/30	0/1 <i>7</i>)	

LOCATION

_			1	1				T	F	x	ESTIMATED
	DEPTH (f	TO	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES				5	WAT BEARI (YES)	NG?	YIELD FOR WATER- BEARING ZONES (gpm)
	0	34	34	Cali	iche, tan, no odor, no stain,	gravel, di	у		Y	√ N	
	34	40	6	sand/ cacliche,	tan, no odor, no stain, m-f	grain, we	ll sorted, dry		Y	√ N	1
	40	56	16	sand, tan,	no odor, no stain, m-f grair	, well sor	ted, dry		Y	√ N	
	56	72	16	sandstone, low consol	idation, tan, no odor, no sta	in, m-f gr	ain, well sorted	, dry	Y	√ N	
	72	79	7	sand, tan,	no odor, no stain, m-f grair	, well sor	ted, dry		Y	✓ N	
2	79	109	30	sandstone, low - mediu	m consolidation, tan, no oc	or, m-f g	rained, well sort	ted, m	Y	√ N	
VEL									Y	N	
4. HYDROGEOLOGIC-LOG OF WELL									Y	N	
ğ		-							Y	N	
ť									Y	N	
BO									Y	N	
EOI		-		1					Y	N	
SOG									Y	N	
IQX		-	1						Y	N	
+	1000								Y	N	
									Y	N	
			1						Y	N	
				5				-	Y	N	
								-	Y	N	
			-					-	Y	N	
								-	Y	N	
	METHOD	SED TO E	I STIMATE VIELI	DOF WATER-BEARING	G STRATA.		1	TOTAI	LESTIM	-	
		_	IR LIFT		THER - SPECIFY:				. YIELD		0.00
ION	WELL TEST	TEST STAR	RESULTS - ATI T TIME, END TI	TACH A COPY OF DAT IME, AND A TABLE SI	A COLLECTED DURING HOWING DISCHARGE A	WELL	FESTING, INC WDOWN OVE	LUDIN R THE	G DISCH TESTINO	IARGE N G PERIO	ÆTHOD, D.
TEST; RIG SUPERVISI			te L	et below ground surfa ogs adapted from WS		nite chip	s from ten iee	t below	ground	surface	to surface.
5. TES	PRINT NAM Shane Eldrid		RILL RIG SUPE	RVISOR(S) THAT PRO	VIDED ONSITE SUPERV	ISION O	F WELL CONS	STRUCT	FION OT	HER TH	AN LICENSEE:
6. SIGNATURE	CORRECT R	ECORD O	F THE ABOVE I	DESCRIBED HOLE AN	EEST OF HIS OR HER KN ID THAT HE OR SHE WI PLETION OF WELL DRI	LL FILE	GE AND BELI THIS WELL R	EF, TH ECORD	E FOREC WITH 1	GOING I THE STA	S A TRUE AND TE ENGINEER
SIGN.	Jack K	tkins		Ja	ckie D. Atkins	_			03/11/	2021	
9		SIGNAT	URE OF DRILLI	ER / PRINT SIGNEE	NAME					DATE	
EO	R OSE INTERN	IAT TIGE					WR-20 WP	LBEC	ORD & T	OG (Ve	sion 06/30/2017)
	E NO.	AL USE			POD NO.	. 1	TRN NO.				31311 VOI 3072017
-					1	1					PAGE 2 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 E	ngineer Well Number: <u>C-4498- POD</u>	1					
	wner: XTO ENERGY (Kyle Littrell)		Phone No.: 432.682.8873				
	g address:6401 Holiday Hill Dr.			51			
	Midland	State:	Texas	Zip code:79707			
II. W	ELL PLUGGING INFORMATION	<u>[:</u>					
1)	Name of well drilling company that	t plugged well:	Atkins (Atkins Engine	ering Associates Inc.)			
2)	New Mexico Well Driller License I	No.:	E	xpiration Date: 04/30/21			
3)	Well plugging activities were super Shane Eldridge	vised by the following w	ell driller(s)/rig supervi	sor(s):			

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		26.19	sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: <u>109</u> ft below ground level (bgl), by the following manner: weighted tape

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

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

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

Version: September 8, 2009 Page 1 of 2 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

<u>Depth</u> (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement <u>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	FZ ADITO
				OSE DIT M	AR 11 2021 M4:22
l i i i					
			AND OBTAIN		
III SIGN	ATHER.	Cubic feet x 7.4 cubic yards x 201.9	1805 = gallons		

For each interval plugged, describe within the following columns:

III. SIGNATURE:

I, <u>Jackie D. Atkins</u>, 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

03/11/2021

Signature of Well Driller

Date

Version: September 8, 2009 Page 2 of 2

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

Final Audit Report

2021-03-11

Created:	2021-03-11
Ву:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAq2m7g1wGV8cRoBzMugpPTk25-4ojFW8H

"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 DII MAR 11 2021 PM4:22



DESCRIPTION:

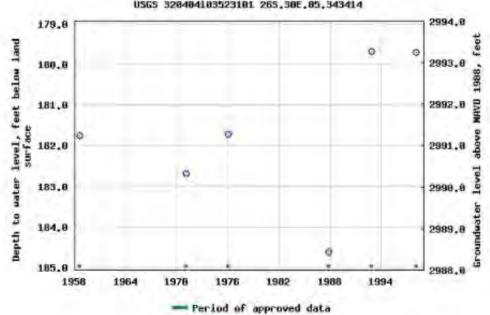
Latitude 32°04'04", Longitude 103°52'31" NAD27 Eddy County, New Mexico , Hydrologic Unit 13070001 Well depth: 775 feet Land surface altitude: 3,173 feet above NAVD88. Well completed in "Pecos River Basin alluvial aquifer" (N100PCSRVR) national aquifer. Well completed in "Alluvium, Bolson Deposits and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

OPERATION:

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



USGS 328484183523181 265,30E,85,343414

										Data	
					WS	P USA			BH or PH Name:	Date:	
									CH01	3/30/202	21
				5 Car	08 West S Isbad, Ne	Stevens S w Mexico	Street		Site Name: PLU PB 25-2	25-30	
				Cdl	isbad, ne		00220		RP or Incident Number:	2020072	
					0.4.4.01		2		LTE Job Number: TE012		
Lot/Lo	2 21	LIIH	OLUG	SIC / SOIL	Field Scre		G		Logged By: Hole Diameter:		Wet Core Drill
Lat/Lo 32.093	ng: 3941,-103.8	835973			Chloride, I				1.5'	Total De 4'	ptn.
Comm	ients:				00						
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lith	ology/Remarks	5
				07		0		CALICH	= dry light brown-ta	an noorly cons	olidated, some small
					L T	T O			ome oder, trace stai		olidated, some small
					_	0.5	SW-S	SANDST	ONE w/caliche grav	el, wet, brown-	
1 t	.400	4.0		01104	4	4					aded, some tan caliche
wet	<168	1.0	n	CH01	1 _	_ 1		gravel, fe	ew small chert grave	ei, no stain, no (JUUT
					-	-					
					-						
wet	<168	2.1	n		–	2					
					-	-					
						_					
					_	3					
					-	-					
					_	_					
wet	<168	2.1	m	CH01A	4	4					
						-					
					_	_					
					-	-					
					_						
					_	_					
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					-	-				Total D	Depth: 4 feet bgs
					_						-
					-	-					

					WS	P USA			BH or PH Name:	Date:		
									CH02	3/30/2021		
				5 Car	08 West S Isbad, Ne	Stevens S w Mexico	Street		Site Name: PLU PB 25-2			
				Cal	isbau, ne	W WEXICO	00220		RP or Incident Number: N			
		1.177.1		GIC / SOIL	CAND		C		LTE Job Number: TE012	920072 Method: Wet		
Lat/Lor		LIIN	ULU		Field Scre		G		Logged By: Hole Diameter:	Total Depth:	Core Drill	
32.093	941,-103.	835973			Chloride, I				1.5'	4'		
Comm	ents:											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth	Depth (ft bgs)	USCS/Rock Symbol		Litho	blogy/Remarks		
ĕŏ	C I	>	St	Sa	(ft bgs)							
					-	0	CCHE		E, dry, light brown-tai ome oder, trace stair		ted, some small	
wet	<168	0.3	n	CH02	1	1	SW-S	consolida	ONE w/caliche grav ated, medium-coarse w small chert gravel	e grain, well graded	l, some tan caliche	
wet	<168	0.0	n		-	2						
						3						
wet	<168	0.0	n	CH02A	4	4						
						• 						
						- - -						
						-						
					-	-						
						- - -						
					-	- -						
					-	-				Total Dept	n: 4 feet bgs	
					-	-					5	

									BH or PH Name:	Data	
					WS	P USA				Date:	
									CH03	3/30/20	21
				5	08 West S Isbad, Ne	Stevens S	street		Site Name: PLU PB 25-25-		
				Cal	isbau, ive	WINEXICO	00220		RP or Incident Number: NF		
									LTE Job Number: TE01292		
<u> </u>		LITH	OLOC	GIC / SOIL			G		Logged By: TC/BB		: Wet Core Drill
Lat/Lor 32.093	ng: 941,-103.8	335973			Field Scre Chloride, I				Hole Diameter: 1.5'	Total Do 4'	epth:
Comm					Chionae, i	FID			1.0	4	
	0		ſ	#			USCS/Rock Symbol				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth	Depth	/Rc lbo		Lithol	logy/Remark	c
Aois Con	Shlc (pp	Val (pp	Stail	am	(ft bgs)	(ft bgs)	Syn		Litiloi	iogy/itemark	3
20	0		0)	S	(11.590)		SU S				
						0	CCHE		E, dry, light brown-tan		olidated, some small
					_	-		gravel, s	ome oder, trace stain,	, fill	
					-	+					
wet	<168	0.3	n	CH03	1	1	SW-S	SANDST	ONE w/caliche grave	l, wet, brown	-light brown, well
					_	Γ		consolida	ated, medium-coarse	grain, well gi	raded, some tan caliche
					_	L			w small chert gravel,		
14/6 [±]	057.0	0.4			-	2					
wet	257.6	0.1	n								
					-	Ĺ					
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wet	<168	0.0	n	CH03A	4	4					
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								BH or PH Name:	Date:		
					WS	P USA		CH04	3/30/2021		
					i08 West S	Stovens	Stroot	Site Name: PLU PB 25-25			
				Car	Isbad, Ne	w Mexico	88220	RP or Incident Number: N			
								LTE Job Number: TE0129			
		і ітн		SIC / SOIL	SAMPI	INGLO	G	Logged By: TC/BB	Method: Wet Core D	rill	
Lat/Lor	na:		2200		Field Scre		-	Hole Diameter:	Total Depth:		
	941,-103.8	835973			Chloride,			1.5'	4'		
Comme	ents:										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Litho	logy/Remarks		
						0		E, dry, light brown-tar ome oder, trace stain	n, poorly consolidated, s , fill	ome small	
wet	520	0.2	n	CH04	1	1	SW-S		el, wet, brown-light brow		
		_			- -			ated, medium-coarse ew small chert gravel,	grain, well graded, som no stain, no odor	ie tan Ganche	
wet	364.0	0.1	n		-	2					
					-	3					
	000	0.4		CH04A	-	4					
wet	229	0.1	n	CH04A	4	4					
					-	-					
					-	-					
					-						
					- -	+ +- +					
					. -	+					
					-	+					
					- -	F					
					- - -	+ -					
						+- - -			Total Depth: 4 fe	et bgs	
					-	F					

								В	H or PH Name:	Date:	
					WS	P USA			:H05	3/30/2021	
				F	08 West S	Stevens S	Street	_	ite Name: PLU PB 25-25		
				Car	Isbad, Ne	w Mexico	88220		P or Incident Number: N		
									TE Job Number: TE0129		
		LITH	OLOG	GIC / SOIL	. SAMPL	ING LO	G	L	ogged By: TC/BB	Method: Wet Co	ore Drill
Lat/Lor	ng:				Field Scre				lole Diameter:	Total Depth:	
	941,-103.8	835973			Chloride, I	PID		1	.5'	4'	
Commo	ents:										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litho	logy/Remarks	
20	0		0)	õ	(it bys)		SU				
					-	0	CCHE		dry, light brown-tan me oder, trace stain		ed, some small
wet	<168	6.7	n	CH05	1	1	SW-S	consolidat	DNE w/caliche grave ed, medium-coarse v small chert gravel,	grain, well graded,	
wet	<168	2.1	n		-	2		5	с, ,		
						3					
wet	<168	1.0	n	CH05A	4	- 4					
					-	-					
						- - -					
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					- - -	-					
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					- -	- - -					
						- - -					
						- -				Tatal Danth	4 feet bas
					- -	-				Total Depth:	4 leet bys

wsp

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



Photo No.	Date	
1 11010 110.	March 30, 2021	
2	March 50, 2021	
West facing vi	iew of core hole	
within lined	containment.	
		States B. C. S. S. C. Market
		A CONTRACT OF A CONTRACT.

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



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

AMER

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 <u>www.EurofinsUS.com</u>



Client Sample Result Summary

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

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 0	5:22	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	9:33	04/02/2021 09:33 04/02/2021 21:10		
	Analyzed:	04/02/2021 20):48			
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	
Gasoline Range Organ (GRO)-C6-C10	ics	<50.0 U *+	50.0	<50.1 U *+	50.1	
Diesel Range Organics C10-C28)	(Over	<50.0 U	50.0	<50.1 U	50.1	
Oll Range Organics (Or C28-C36)	ver	<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	

Job ID: 890-462-1 SDG: TE012920072

.

Received by OCD: 6/4/2021 11:07:34 AM

🔅 eurofins

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

RAMER

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

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

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

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

LINKS **Review your project** results through Total Access **Have a Question?** Ask-The Expert Visit us at: www.eurofinsus.com/Env Released to Imaging: 7/28/2021 2:02:17 PM

0 1 2

Laboratory Job ID: 890-462-1

SDG: TE012920072

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QC Sample Results	8
QC Association Summary	11
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Certification Summary	13
Method Summary	14
Sample Summary	15
Chain of Custody	16
Receipt Checklists	17

Contains Free Liquid

Colony Forming Unit

Dilution Factor

Contains No Free Liquid

Detection Limit (DoD/DOE)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Method Detection Limit Minimum Level (Dioxin)

Most Probable Number Method Quantitation Limit

Not Calculated

Negative / Absent

Positive / Present

Presumptive

Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Limit of Quantitation (DoD/DOE)

Duplicate Error Ratio (normalized absolute difference)

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Activity (Radiochemistry)

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

CFL

CFU

CNF

DER Dil Fac

DL

DLC

EDL

LOD

LOQ

MCL

MDA

MDC

MDL

MQL NC

ND

NEG

POS

PQL

QC

RL

RER

RPD

TEF

TEQ

TNTC

PRES

ML MPN

DL, RA, RE, IN

eceivea by OCD	: 0/4/2021 11:0/:54 AM Page 59 0J	140			
	Definitions/Glossary				
Client: WSP US	SA Inc. Job ID: 890-462-1				
Project/Site: Phantom Banks 25-25-30 SDG: TE					
Qualifiers		3			
GC VOA					
Qualifier	Qualifier Description				
U	Indicates the analyte was analyzed for but not detected.				
GC Semi VOA		5			
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	8			
U	Indicates the analyte was analyzed for but not detected.				
Glossary		9			
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				

Job ID: 890-462-1

Page 40 of 140

4

5

13

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.

Project/Site: Phantom Banks 25-25-30

Job ID: 890-462-1 SDG: TE012920072

Client Sample ID: CH01

Client: WSP USA Inc.

Lab Sample ID: 890-462-1

mple Depth: - 1								
Method: 8021B - Volatile Organic								
Analyte		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
n-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
-Bromofluorobenzene (Surr)	127		70 - 130			04/06/21 16:49	04/07/21 05:22	1
,4-Difluorobenzene (Surr)	106		70 - 130			04/06/21 16:49	04/07/21 05:22	1
Method: 8015B NM - Diesel Rang	e Organics (DI	RO) (GC)						
		RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics		Qualifier	RL 50.0	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U *+			<u>D</u>			Dil Fac 1
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U *+ U	50.0	mg/Kg	<u> </u>	04/02/21 09:33	04/02/21 20:48	Dil Fac 1 1
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36)	Result <50.0 <50.0	Qualifier U *+ U U	50.0	mg/Kg	<u> </u>	04/02/21 09:33 04/02/21 09:33	04/02/21 20:48 04/02/21 20:48	Dil Fac 1 1 1 1
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Total TPH	Result <50.0	Qualifier U *+ U U U	50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/02/21 09:33 04/02/21 09:33 04/02/21 09:33	04/02/21 20:48 04/02/21 20:48 04/02/21 20:48	1 1 1
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Fotal TPH Surrogate	Result <50.0	Qualifier U *+ U U U	50.0 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u> </u>	04/02/21 09:33 04/02/21 09:33 04/02/21 09:33 04/02/21 09:33	04/02/21 20:48 04/02/21 20:48 04/02/21 20:48 04/02/21 20:48	1 1 1
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Total TPH Currogate -Chlorooctane	Result <50.0	Qualifier U *+ U U U	50.0 50.0 50.0 50.0 Limits	mg/Kg mg/Kg mg/Kg	<u> </u>	04/02/21 09:33 04/02/21 09:33 04/02/21 09:33 04/02/21 09:33 Prepared	04/02/21 20:48 04/02/21 20:48 04/02/21 20:48 04/02/21 20:48 Analyzed	1 1 1 1 Dil Fac
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Total TPH Surrogate -Chlorooctane -Terphenyl	Result <50.0	Qualifier U *+ U U Qualifier	50.0 50.0 50.0 50.0 <u>Limits</u> 70 - 130	mg/Kg mg/Kg mg/Kg	<u> </u>	04/02/21 09:33 04/02/21 09:33 04/02/21 09:33 04/02/21 09:33 04/02/21 09:33 Prepared 04/02/21 09:33	04/02/21 20:48 04/02/21 20:48 04/02/21 20:48 04/02/21 20:48 04/02/21 20:48 <u>Analyzed</u> 04/02/21 20:48	1 1 1 1 1 Dil Fac 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane p-Terphenyl Method: 300.0 - Anions, Ion Chro Analyte	Result <50.0	Qualifier U *+ U U Qualifier	50.0 50.0 50.0 50.0 <u>Limits</u> 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/02/21 09:33 04/02/21 09:33 04/02/21 09:33 04/02/21 09:33 04/02/21 09:33 Prepared 04/02/21 09:33	04/02/21 20:48 04/02/21 20:48 04/02/21 20:48 04/02/21 20:48 04/02/21 20:48 <u>Analyzed</u> 04/02/21 20:48	1 1 1 1 1 Dil Fac 1

Client Sample ID: CH01 A Date Collected: 03/30/21 10:49 Date Received: 03/31/21 13:21

Sample Depth: - 4

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

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

Matrix: Solid

Client Sample Results

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

Client Sample ID: CH01 A

Date Collected: 03/30/21 10:49 Date Received: 03/31/21 13:21

Sample Depth: - 4

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
Oll 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
p-Terphenyl	136	S1+	70 - 130			04/02/21 09:33	04/02/21 21:10	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.4		5.00	mg/Kg			04/11/21 20:58	1

Job ID: 890-462-1 SDG: TE012920072

Lab Sample ID: 890-462-2

Matrix: Solid

5

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

Job ID: 890-462-1 SDG: TE012920072

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix:	Solid
man in .	00110

_				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		5
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		J
890-462-1	CH01	127	106		
890-462-2	CH01 A	112	94		6
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					8

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-462-1	CH01	113	121		
890-462-2	CH01 A	131 S1+	136 S1+		13
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

Prep Type: Total/NA

Eurofins Xenco, Carlsbad

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

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1404/5-A
Marketers O all'al

Matrix: Solid Analysis Batch: 1370

Analysis Batch: 1370							Prep Bate	:h: 1404
	MB	MB						
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 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
	МВ	МВ						
Surrogate	%Recovery	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

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%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	

	LCS	LCS	
Surrogate	%Recovery	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								Pre	p Batch	: 1404
		Spike	LCSD	LCSD				%Rec.		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	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
Summa mata	LCSD LCSD	Limite								

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

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Typ Prep

pe: Total/NA Batch: 1404	

Job ID: 890-462-1 SDG: TE012920072

Prep Type: Total/NA

Client Sample ID: Method Blank

5 6 7

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

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

Lab Sample ID: MB 880-1228/1-	A									(Client Sa	mple ID:	Metho	d Blank
Matrix: Solid												-	Type: T	
Analysis Batch: 1237													ep Batc	
-		ΜВ	МВ											
Analyte	Re	sult	Qualifier	RL			Unit		D	Pr	epared	Analy	/zed	Dil Fac
Gasoline Range Organics	<	50.0	U	50.0			mg/Kg			04/02	/21 09:33	04/02/21	1 12:15	1
(GRO)-C6-C10														
Diesel Range Organics (Over C10-C28)	<:	50.0	U	50.0			mg/Kg			04/02	/21 09:33	04/02/21	1 12:15	1
Oll Range Organics (Over C28-C36)	<	50.0	U	50.0			mg/Kg			04/02	/21 09:33	04/02/21	1 12:15	
Fotal TPH	<	50.0	U	50.0			mg/Kg			04/02	/21 09:33	04/02/21	1 12:15	
		ΜВ	МВ											
Surrogate	%Reco		Qualifier	Limits						Pr	epared	Analy	vzed	Dil Fa
1-Chlorooctane		109		70 - 130							2/21 09:33	04/02/2		
o-Terphenyl		119		70 - 130							2/21 09:33	04/02/2		
Lab Sample ID: LCS 880-1228/2	2-A								CI	ient	Sample I	D: Lab C	Control S	Sample
Matrix: Solid												Prep	Type: T	otal/NA
Analysis Batch: 1237												Pr	ep Batc	h: 1228
				Spike	LCS	LCS						%Rec.		
Analyte				Added	Result	Quali	ifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000	1363	*+		mg/Kg			136	70 - 130		
Diesel Range Organics (Over				1000	1084			mg/Kg			108	70 - 130		
C10-C28)														
C10-C28)	LCS	LCS												
				Limits										
Surrogate	LCS %Recovery 116			Limits 70 - 130										
Surrogate	%Recovery													
Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 116 114			70 - 130										
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1228	%Recovery 116 114			70 - 130				Cli	ent	Sam	ple ID: La			-
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid	%Recovery 116 114			70 - 130				Cli	ent	Samı	ple ID: La	Prep	Type: T	otal/NA
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid	%Recovery 116 114			70 - 130 70 - 130				Cli	ent	Samı	ple ID: La	Prep Pr		otal/NA h: 1228
Surrogate 1-Chlorooctane 5-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237	%Recovery 116 114			70 - 130 70 - 130 Spike	LCSD				ent			Prep Pr %Rec.	Type: T ep Batc	otal/NA h: 1228 RPE
Surrogate 1-Chlorooctane 5-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237	%Recovery 116 114			70 - 130 70 - 130 Spike Added	Result			Unit	ent	Samı	%Rec	Prep Pr %Rec. Limits	Type: T ep Batc RPD	otal/NA h: 1228 RPC Limi
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics	%Recovery 116 114			70 - 130 70 - 130 Spike					ent			Prep Pr %Rec.	Type: T ep Batc	otal/N/ h: 1228 RPI Limi
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery 116 114			70 - 130 70 - 130 Spike Added	Result			Unit	ent :		%Rec	Prep Pr %Rec. Limits	Type: T ep Batc RPD	otal/NA h: 1228 RPD Limit
Surrogate 1-Chlorooctane D-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery 116 114	Qual	lifier	70 - 130 70 - 130 Spike Added 1000	Result 1217			Unit mg/Kg	ent :		%Rec	Prep Pr %Rec. Limits 70 - 130	Type: T ep Batc 	otal/NA h: 1228 RPE Limi
Surrogate 1-Chlorooctane D-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	%Recovery 116 114	Qual	lifier	70 - 130 70 - 130 Spike Added 1000	Result 1217			Unit mg/Kg	ent :		%Rec	Prep Pr %Rec. Limits 70 - 130	Type: T ep Batc 	otal/NA h: 1228 RPD Limit
Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	%Recovery 116 114	Qual	lifier	70 - 130 70 - 130 Spike Added 1000	Result 1217			Unit mg/Kg	ent :		%Rec	Prep Pr %Rec. Limits 70 - 130	Type: T ep Batc 	otal/NA h: 1228 RPD Limit
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	%Recovery 116 114 ;/3-A <i>LCSD</i> %Recovery	Qual	lifier	70 - 130 70 - 130 Spike Added 1000 1000	Result 1217			Unit mg/Kg	ent :		%Rec	Prep Pr %Rec. Limits 70 - 130	Type: T ep Batc 	otal/NA h: 1228 RPE Limi
Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane p-Terphenyl	%Recovery 116 114 5/3-A <i>LCSD</i> %Recovery 117 114	Quai LCS Quai	lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1217			Unit mg/Kg	ent :		%Rec	Prep Pr %Rec. Limits 70 - 130	Type: T ep Batc 	otal/NA h: 1228 RPE Limi 20
Surrogate 1-Chlorooctane b-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane b-Terphenyl lethod: 300.0 - Anions, Ion	%Recovery 116 114 1/3-A <i>LCSD</i> %Recovery 117 114 Chromato	Quai LCS Quai	lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1217			Unit mg/Kg	ent :	<u>D</u> -	%Rec	Prep Pr %Rec. Limits 70 - 130 70 - 130	Type: T ep Batc RPD 11 6	otal/NA h: 1220 RPI Limi 20
Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane p-Terphenyl lethod: 300.0 - Anions, Ion Lab Sample ID: MB 880-1542/1-	%Recovery 116 114 1/3-A <i>LCSD</i> %Recovery 117 114 Chromato	Quai LCS Quai	lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1217			Unit mg/Kg	ent :	<u>D</u> -	%Rec	Prep Pr %Rec. Limits 70 - 130 70 - 130	Type: T ep Batc 11 6	d Blank
Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane p-Terphenyl lethod: 300.0 - Anions, Ion Lab Sample ID: MB 880-1542/1- Matrix: Solid	%Recovery 116 114 1/3-A <i>LCSD</i> %Recovery 117 114 Chromato	Quai LCS Quai	lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1217			Unit mg/Kg	ent :	<u>D</u> -	%Rec	Prep Pr %Rec. Limits 70 - 130 70 - 130	Type: T ep Batc RPD 11 6	d Blank
Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane p-Terphenyl lethod: 300.0 - Anions, Ion Lab Sample ID: MB 880-1542/1- Matrix: Solid	%Recovery 116 114 1/3-A <i>LCSD</i> %Recovery 117 114 Chromato	Quan LCSS Quan	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1217			Unit mg/Kg	ent :	<u>D</u> -	%Rec	Prep Pr %Rec. Limits 70 - 130 70 - 130	Type: T ep Batc 11 6	otal/NA h: 1228 RPD Limit 20 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl lethod: 300.0 - Anions, Ion Lab Sample ID: MB 880-1542/1- Matrix: Solid Analysis Batch: 1625 Analyte	%Recovery 116 114 b/3-A LCSD %Recovery 117 114 Chromato A	Quan LCS Quan Ogra	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1217 1150			Unit mg/Kg	D	<u>D</u> -	%Rec	Prep Pr %Rec. Limits 70 - 130 70 - 130	Type: T ep Batc 11 6 : Method o Type: S	otal/NA h: 1228 RPD Limit 20 20

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Job ID: 890-462-1 SDG: TE012920072

QC Sample Results

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

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-1542/2-A Matrix: Solid Analysis Batch: 1625					Client	t Sample	ID: Lab Co Prep	ontrol S Type: S	
·····,····	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	254.2		mg/Kg		102	90 - 110		
Lab Sample ID: LCSD 880-1542/3-A				Clie	nt San	nple ID:	Lab Contro	ol Sampl	e Dup
Matrix: Solid								Type: S	
Analysis Batch: 1625									
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	245.1		mg/Kg		98	90 _ 110	4	20

Eurofins Xenco, Carlsbad

QC Association Summary

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

Job ID: 890-462-1 SDG: TE012920072

: 890-462-1 :012920072

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8 9

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
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	Client Sample ID CH01	Prep Type Total/NA	Matrix	Method 5035	Prep Batch
Lab Sample ID 890-462-1 890-462-2	i				Prep Batch
890-462-1 890-462-2	CH01	Total/NA	Solid	5035	Prep Batch
890-462-1	CH01 CH01 A	Total/NA Total/NA	Solid Solid	5035 5035	Prep Batch

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

Project/Site: Phantom Banks 25-25-30

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Job ID: 890-462-1 SDG: TE012920072

Lab Sample ID: 890-462-2

Matrix: Solid

Lab Sample ID: 890-462-1 Matrix: Solid

Client Sample ID: CH01 Date Collected: 03/30/21 10:34 Date Received: 03/31/21 13:21

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	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 Date Collected: 03/30/21 10:49 Date Received: 03/31/21 13:21

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	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	СН	XM

Laboratory References:

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

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Eurofins Xenco, Carlsbad
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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 Texas		rogram	Identification Number	Expiration Date		
		ELAP	T104704400-20-21	06-30-21		
The following analytes	are included in this report, b	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for v		
e agency does not o	ffer certification.	·		, ,		
the agency does not o Analysis Method	ffer certification . Prep Method	Matrix	Analyte			
the agency does not o	ffer certification.	·				

Eurofins Xenco, Carlsbad

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

Project/Site: Phantom Banks 25-25-30

Job ID: 890-462-1 SDG: TE012920072

Method	Method Description	Protocol	Laboratory
3021B	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:

Client: WSP USA Inc.

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

SDG: TE012920072

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13

Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc. Project/Site: Phantom Banks 25-25-30 Job ID: 890-462-1 SDG: TE012920072

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
90-462-1	CH01	Solid	03/30/21 10:34	03/31/21 13:21	- 1	
90-462-2	CH01 A	Solid	03/30/21 10:49	03/31/21 13:21	- 4	
						5
						8
						9
						1
						1

5		Relinquished by: (Signature)	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.	Total 200.7 / 6010 200.8 / 6020: Circle Method(e) and Metol(e) to be analyzed	1				CHOLA	(Hol	Sample Identification	s: Yes (Seals: Yes No	Received Intact: (Yes) N		Sampler's Name: Travis Casey	P.O. Number: NRM Zo I	т: Т	Project Name: Planton 1	Phone: (432) 704-5178	City, State ZIP: Midland, TX 79705	Address: 3300 North A St.	12	Project Manager: Taconn (XENCO	3
	Globby Ordonez	Received by: (Signature)	shment of samples constitutes a valid purcha t of samples and shall not assume any respon applied to each project and a charge of S5 for r	œ					2 3/20/2 1049	5 3/30/21 1034	Matrix Date Time Sampled Sampled		N/A Correction Factor:	No T. N/M (VC) T	Blank: Yes No Wet Ice:	Due Date:	242 3444 Rush:	0072 Routine	Sacks 25-25-30 Turn.	Email: tra		3300 North A St. Bldg 1, Unit 222 Ad		Morrissey Bil	Hobbs,NM (575-392-755		
	331121 13	Date/Time	se order from client company to Xen Isibility for any losses or expenses ir each sample submitted to Xenco, bu	RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Cc TGLP / SPLP 6010: ORCRA Sb As Ba Be Cd Cr Cd Cu F		1	1		4 1 X X	I. I. K. K	Numb TPH (E	PA 80	15)		Yes No			X	Turn Around	Email: travis.casey@wsp.com, kalei.jennings@wsp.com, d	City, State ZIP: Carlsbad, NM	Address: 3104 E Greene	Company Name: XTO Energy	Bill to: (if different) Kyle Littrell	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800)	(281) 240-4200 Dallas,TX (214) 9 (432-704-5440) El Paso TX (91)	Chain o
0	13:21 2	Relinquished by: (Signature)	co, its affiliates and subcontractors. It assign curred by the client if such losses are due to not analyzed. These terms will be enforced						X	×	Chloric	de (EP							ANALYSIS REQUEST	ennings@wsp.com, dan.moir@w	7	ne St.			lanta,GA (770-449-8800) Tampa,FL (813-620-2000)	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland TX (439-704-5440) EI Paso TX (915)585-3443 Lubbock TX (806)794-1296	Chain of Custody
		ature) Received by: (Signature)	ns standard terms and conditions o circumstances beyond the control unless previously negotlated.	b Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti b Mn Mo Ni Se Ag Ti U 1631/245.							Sa	lab	_	890-462 Chain of Custody		The second secon	0074	#//		Deliverables: EDD ADaPT			Brownfields	Work Order Comments	3-620-2000) www.xenco.com Page_		Work Order No:
Revised Date 0514 18 Rev. 2018.1		Date/Time		Na Sr TI Sn U V Zn 1631/245.1/7470 /7471 : Hg							Sample Comments	lab, if received by 4:30pm	rts the day recevied by the			. 3000-4010-	22 01 2 10756	·# 1140771001	Work Order Notes	Other:			RC uperfund	5	e of		

4/12/2021

Received by OCD: 6/4/2021 11:07:34 AM

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

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 462 List Number: 1

Creator: Clifton, Cloe

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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

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

List Source: Eurofins Midland

List Creation: 04/01/21 11:44 AM

Login Sample Receipt Checklist

Client: WSP USA Inc.

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

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").



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

AMER

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 <u>www.EurofinsUS.com</u>



Client Sample Result Summary

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

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 10	6:49	04/06/2021 16:49			
	Analyzed:	04/07/2021 0	6:03	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	3:41	04/03/2021 13:41			
	Analyzed:	04/05/2021 0	6:04	04/05/2021 06	6:26		
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL		
Gasoline Range Orga (GRO)-C6-C10	anics	<50.2 U	50.2	<50.1 U	50.1		
Diesel Range Organio C10-C28)	cs (Over	<50.2 U	50.2	<50.1 U	50.1		
Oll Range Organics (C28-C36)	Over	<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:					
	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	

Job ID: 890-463-1 SDG: TE012920072

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Received by OCD: 6/4/2021 11:07:34 AM

🔅 eurofins

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

RAMER

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

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

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

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

LINKS **Review your project** results through Total Access **Have a Question?** Ask-The Expert Visit us at: www.eurofinsus.com/Env Released to Imaging: 7/28/2021 2:02:17 PM

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		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
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		8
Abbreviation	These commonly used abbreviations may or may not be present in this report.	9
¤	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)	13
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 NC	Method Quantitation Limit Not Calculated	
ND	Not Calculated 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

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.

Project/Site: Phantom Bank 25-25-30

RL

0.00202

0.00202

0.00202

0.00404

0.00202

0.00404

0.00202

Limits

70 - 130

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

04/06/21 16:49

04/06/21 16:49

04/06/21 16:49

04/06/21 16:49

04/06/21 16:49

04/06/21 16:49

04/06/21 16:49

Prepared

04/06/21 16:49

04/06/21 16:49

Job ID: 890-463-1 SDG: TE012920072

Client Sample ID: CH02

Date Collected: 03/30/21 15:20 Date Received: 03/31/21 13:21

Sample Depth: - 1

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Client: WSP USA Inc.

Lab Sample ID: 890-463-1

Analyzed

04/07/21 06:03

04/07/21 06:03

04/07/21 06:03

04/07/21 06:03

04/07/21 06:03

04/07/21 06:03

04/07/21 06:03

Analyzed

04/07/21 06:03

04/07/21 06:03

Lab Sample ID: 890-463-2

Matrix: Solid

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00202 U

<0.00202 U

<0.00202 U

<0.00404 U

<0.00202 U

<0.00404 U

<0.00202 U

%Recovery Qualifier

116 108

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<50.2	U	50.2	mg/Kg		04/03/21 13:41	04/05/21 06:04	1	
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.2	U	50.2	mg/Kg		04/03/21 13:41	04/05/21 06:04	1	
C10-C28)									
Oll 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,	lon	Chromatog	raphy	/-	Solu	ıble

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 Date Collected: 03/30/21 15:40 Date Received: 03/31/21 13:21

Sample Depth: - 4

Method: 8021B - Volatile Orga	nic 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)			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

Eurofins Xenco, Carlsbad

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

Client Sample Results

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

Client Sample ID: CH02A

Date Collected: 03/30/21 15:40 Date Received: 03/31/21 13:21

Sample Depth: - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.1	U	50.1	mg/Kg		04/03/21 13:41	04/05/21 06:26	1
GRO)-C6-C10								
Diesel Range Organics (Over	<50.1	U	50.1	mg/Kg		04/03/21 13:41	04/05/21 06:26	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		04/03/21 13:41	04/05/21 06:26	1
otal 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
p-Terphenyl	120		70 - 130			04/03/21 13:41	04/05/21 06:26	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.2		4.97	mg/Kg			04/08/21 21:00	

Job ID: 890-463-1 SDG: TE012920072

Lab Sample ID: 890-463-2

Matrix: Solid

> 11 12 13

Project/Site: Phantom Bank 25-25-30

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

_			
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(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

				Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-463-1	CH02	117	128		
890-463-2	CH02A	111	120		13
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

Prep Type: Total/NA

Prep Type: Total/NA

Page 63 of 140

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

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1404/5-A
Materia: Calid

Matrix: Solid Analysis Batch: 1370

Analysis Batch: 1370							Prep Bato	:h: 1404
	MB	МВ						
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 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
	МВ	МВ						
Surrogate	%Recovery	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

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%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

	LCS	LCS	
Surrogate	%Recovery	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									Pre	p Batch	: 1404
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	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
	LCSD	LCSD									
a <i>i</i>	8 4 B	o ""									

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

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA	
Prep Batch: 1404	

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Job ID: 890-463-1

SDG: TE012920072

Prep Type: Total/NA

Client Sample ID: Method Blank

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

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

Lab Sample ID: MB 880-1283/1	- A										Client Sa	mple ID: M	ethod	Blank
Matrix: Solid												Prep Ty	pe: To	otal/NA
Analysis Batch: 1291													-	n: 1283
		ΜВ	МВ											
Analyte	Res	sult	Qualifier	R	۲.		Unit		D	P	repared	Analyze	ł	Dil Fac
Gasoline Range Organics	<5	50.0	U	50.	.0		mg/Kg		_	04/0	3/21 13:41	04/04/21 22	:41	1
(GRO)-C6-C10														
Diesel Range Organics (Over	<5	50.0	U	50.	.0		mg/Kg	I		04/0	3/21 13:41	04/04/21 22	:41	1
C10-C28)	_													
Oll Range Organics (Over C28-C36)		50.0		50.			mg/Kg				3/21 13:41	04/04/21 22		1
Total TPH	<5	50.0	U	50.	.0		mg/Kg	l		04/0	3/21 13:41	04/04/21 22	.:41	1
		ΜВ	МВ											
Surrogate	%Recov	verv	Qualifier	Limits						P	repared	Analyze	d	Dil Fac
1-Chlorooctane		100		70 - 130	_						3/21 13:41	04/04/21 22		1
o-Terphenyl		104		70 - 130							3/21 13:41	04/04/21 22		1
Lab Sample ID: LCS 880-1283/	2-A								С	lient	Sample	ID: Lab Cor	ntrol S	ample
Matrix: Solid											-	Prep Ty		
Analysis Batch: 1291													-	n: 1283
				Spike	LCS	LCS						%Rec.		
Analyte				Added	Result	Qual	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000	1072			mg/Kg			107	70 - 130		
(GRO)-C6-C10														
Diesel Range Organics (Over				1000	1024			mg/Kg			102	70 - 130		
C10-C28)														
	LCS	LCS												
Surrogate	%Recovery		ifier	Limits										
1-Chlorooctane	121			70 - 130										
o-Terphenyl	116			70 - 130										
Lab Sample ID: LCSD 880-128	3/3-A							Cli	ient	Sam	ple ID: L	ab Control	Samp	le Dup
Matrix: Solid												Prep Ty		
Analysis Batch: 1291													-	n: 1283
				Spike	LCSD	LCS	D					• %Rec.		RPD
Analyte				Added	Result	Qual	lifier	Unit		D	%Rec	Limits	RPD	Limit
Gasoline Range Organics				1000	1076			mg/Kg			108	70 - 130	0	20
(GRO)-C6-C10														
Diesel Range Organics (Over				1000	976.6			mg/Kg			98	70 - 130	5	20
C10-C28)														
	LCSD	LCSI	D											
Surrogate	%Recovery			Limits										
1-Chlorooctane	117		-	70 - 130										
o-Terphenyl	113			70 - 130										
Method: 300.0 - Anions, Io	n Chromato	ogra	aphy											
_ 	•										Client Cr			Diank
Lab Sample ID: MB 880-1412/1	-A										Chefit 38	Imple ID: M		
Matrix: Solid												Prep T	/pe: S	elquio
Analysis Batch: 1523														
A		MB		-			11		-	-		. .		
Analyte	Res	sult	Qualifier	R	<u>L</u>		Unit		D	PI	repared	Analyze		Dil Fac

Job ID: 890-463-1 SDG: TE012920072

Eurofins Xenco, Carlsbad

04/08/21 19:02

Chloride

5.00

mg/Kg

<5.00 U

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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	e ID: Lab Co Prep	ontrol S Type: S	
Analysis Datch. 1323	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	265.5		mg/Kg		106	90 - 110		
Lab Sample ID: LCSD 880-1412/3-A Matrix: Solid Analysis Batch: 1523				Clie	nt Sam	nple ID:	Lab Contro Prep	ol Sampl Type: S	
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	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 Page 67 of 140

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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					
- '	Client Sample ID	Pren Tyne	Matrix	Method	Pren Batch
Prep Batch: 1404 Lab Sample ID 890-463-1	Client Sample ID CH02	Prep Type Total/NA	Matrix Solid	<u>Method</u> 5035	Prep Batch
Lab Sample ID					Prep Batch
Lab Sample ID 890-463-1	CH02	Total/NA	Solid	5035	Prep Batch
Lab Sample ID 890-463-1 890-463-2	CH02 CH02A	Total/NA Total/NA	Solid Solid	5035 5035	Prep Batch

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	Ргер Туре	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

Job ID: 890-463-1

SDG: TE012920072

Lab Sample ID: 890-463-1

Lab Sample ID: 890-463-2

Lab Chronicle

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

Client Sample ID: CH02

Date Collected: 03/30/21 15:20 Date Received: 03/31/21 13:21

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	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	СН	XM

Client Sample ID: CH02A Date Collected: 03/30/21 15:40 Date Received: 03/31/21 13:21

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	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	СН	XM

Laboratory References:

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

Matrix: Solid

Matrix: Solid

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Eurofins Xenco, Carlsbad

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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.

uthority	I	Program	Identification Number	Expiration Date
exas		NELAP	T104704400-20-21	06-30-21
• ,		but the laboratory is not certi	fied by the governing authority. This list ma	ay include analytes for v
the agency does not c Analysis Method	fter certification. Prep Method	Matrix	Analyte	
Analysis Method 8015B NM		Matrix Solid	Analyte Total TPH	

Eurofins Xenco, Carlsbad

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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

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1	1
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Eurofins Xenco, Carlsbad

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

Eurofins Xenco, Carlsbad

Revised Date 051418 Rev 2018 1		σ					σ
							5
		Δ r	N. 01 17.11910	XONDIC 2	KUM MAGNER	All	26
		2	ū				2
Date/Time	e) Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Received by	Relinguished by: (Signature)	Relind
	ss previously negotiated.	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. I ness terms will be enrorced unless previously negonated.	mitted to Xenco, but not ana	charge of \$5 for each sample sub	applied to each project and a	A minimum charge of \$75.00 will be	of Xenco. A
	sumstances beyond the control	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	sses or expenses incurred	sume any responsibility for any lo	st of samples and shall not as	Xenco will be liable only for the co	of service.
	andard terms and conditions	fillates and subcontractors. It assigns st	ent company to Yenco its a	ee a valid aurobase order from oli			
1631 / 245.1 / 7470 / 7471 : Hg	ΠU	d Cr Co Cu Pb Mn Mo Ni		VSPLP 60		nne	
Sn U V Zn	Mg Mn Mo Ni K Se Ag SiO2 Na Sr TI 3	Cd Ca Cr Co Cu Fe Pb	Al Sb As Ba Be B	8RCRA 13PPM Texas 11		Total 200.7 / 6010 200.8 / 6020:	Total
			H I	-010-			
			6	de la			
And			V K C K	15 40 41	e t	CHO2A	
				1520 1.	> 3/3021	2041	
			TP		Sampled		
Sample Comments	Sar		H (E) EX (Depth		Sample Identification	'n
	lab		PA 8 EPA	Total Containers:	N/A	Sample Custody Seals: Yes No	Sample C
TAT starts the day receiied by the	-	890-463 Chain of Custody	015) 802	Correction Factor:	N/A	Cooler Custody Seals: Yes No	Cooler Cu
) :1)		NO I CM	Intact: (Yes)	Received Intact:
				Thermometer ID	~	ture (°C):	Temperature (°C):
			-	Wet Ice: Yes No	Temp Blank: Yes No	SAMPLE RECEIPT	SAMP
1911: 30-015-40756	4MI: 3			Due Date:		s Name: Travis Casey	Sampler's Name:
11002101				Rush:	AS 3444	nber: NRMZ01295 3444	P.O. Number:
124. 1W 02.2 1001				Routine X	20072	Jumber: 7/201297007	Project Number:
Work Order Notes				36 Turn Around	Senks 25-25	lame: Marton ben	Project Name:
Outer		kalei.jennings@wsp.com, dan.moir@w	<u>vsp.com, kalei,jenning</u>	Email: travis.casey@wsp.com.		(432) 704-5178	Phone:
ſ			Carlsbad, NM	City, State ZIP:	705	te ZIP: Midland, TX 79705	City, State ZIP:
	level III PST/UST				SOON NOTAL A SE BING 1, OTHER 222		Audress.
	State of Project: NM			Address.	+ Bldg 1 Init 222		Addross.
RC Uperfund	Program: UST/PST PRP Brownfields		XTO Energy	Company Name:	ן ק	WSP US	Company Name
S	Work Order Comments		Kyle Littrell	Bill to: (if different)	Mariss	Aanager: The come	Project Manager:
e (of 1	0-2000) www.xenco.com Page	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	(480-355-0900) Atlanta,G	M (575-392-7550) Phoenix,AZ	Hobbs, N	(
		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	Dallas,TX (214) 902-0300	Houston,TX (281) 240-4200 Midland TX (432-704-5440		XENCO	
9/2	Work Urder No:	rstody	Chain of Custody				

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Received by OCD: 6/4/2021 11:07:34 AM

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1089 N Canal St. Carlsbad NM 86220 Bhong F7F nog 3100 Four F7F nog 3100	0	Chain of Custody Record	of Cus	tody R	ecor	0									🔆 eurotins		Environment Testing America	gn
Client Information (Sub Contract Lab)	Sampler:			Lab PM Kramer	M M	5			- 0	Carrier Tracking No(s).	icking N)(s)		• 0				
Client Contact: Shipping/Receiving	Phone:			E-Mail	8	@eurof	inset con	3	zφ	State of Origin				ס ס	Page: Page:			
Company Eurofins Xenco					Accreditations Required (See note) NELAP - Louisiana NELAP - Texas	ns Requi Louisia	na NELA	vte) vP - Tex						م د	Job #: 890-463-1			
Address 1211 W Florida Ave	Due Date Requested 4/6/2021	ed					Ą	Analysis Requested	Requ	ested					Preservation Codes	odes		
City Midland	TAT Requested (days)	ays)			0,000000000							-	-	<u>, n</u> >	HCL	zz	M - Hexane N None	
State, Zip TX, 79701								<u></u>						na Maria and	Nitric Acid NaHSO4	οτα	AsNaO2 Na2O4S Na2SO3	
Phone: 432-704-5440(Tel)	PO #													С П		נמס	Na2S2O3 H2SO4	
Email	WO #:				o)										i Ascorbic Acid Ice		- Acetone	ŧ
Project Name: Phantom Bank 25-25-30	Project #: 89000004				s or N		=x	<u></u>		<u></u>				ainers	EDA	N≶·	V pH 4-5 Z other (specify)	
Site.	SSOW#				(Ye		C BTI							15.20.2	Other [.]		:	
			Sample	Matrix (^{W=water}	iltered San m MS/MSD D_NM/8015	GFM_28D/D	035FP_Cald							umber of c				
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	2 ? 	S=solid O=waste/oil, BT=Tissue, A=Air)	Perfor		30218/6							fotal N	Spacial	Detr	Spacial Instructions/Nata	
	X	N	ാറക	ion Code:	XX									imes	ļ	1		6
CH02 (890-463-1)	3/30/21	15 20 Mountain		Solid	×	×	×							<u>د</u>				
CH02A (890-463-2)	3/30/21	15 40 Mountain		Solid	×	×	×							-			,	
														1973				
								+	+	+		+		a la constante				
						+	+	-	1	┼╴	1_	+	+	KZ.				
									1									
										┟──┼		$\left \right $	$\left \right $					
								-		-			-		and a second			
Note: Since laboratory accreditations are subject to change. Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instrue LLC attention immediately if all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC	being analyzed the s burn the signed Chain	o of method an samples must b of Custody atte	alyte & accred e shipped bacl sting to said c	tation complian to the Eurofin omplicance to t	s Xenco LLC urafins Xer	t subcont C laborato Ico LLC	act laborat ry or other	ories. Thi instructior	s sample ns will be	shipmer	it is forw Any ch	arded u langes	nder ch to accre	ain-of-c ditatior	ustody If the I status should I	aborato oe brou	ories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco	8₹
Possible Hazard Identification					Samp	le Disp Petum	Sample Disposal (A)	fee may	be ass	assessed if san	if san	iples a	□ a le l	aine	ē	than 1 month)	onth)	
Deliverable Requested 1 II III IV Other (specify)	Primary Deliverable Rank	able Rank 2			Specia	al Instru	Special Instructions/Q(C Requirements	rements	"	Ì							
Empty Kit Relinquished by		Date			Time					Meth	Method of Shipment:	nipment						
Reinquished by Uce Outre 331-21	Date/Time:			Company	5 7	UNDANDA	pl	Ma	Ŋ			Date/Time:	с. С		1.50arm		Company	
Relinquished by	Date/Time:			Company	Re	Received by						Date/Time	¢.			0	Company	
Relinquished by:	Date/Time:			Company	Re	Received by						Date/Time:	ë.			- 2	Company	
Custody Seals Intact ∆ Yes ∆ No					S	oler Tem	Cooler Temperature(s)	°C and O	Other Remarks	arks.	ļ					ŀ		
																<	Ver 11/01/2020	

12 13

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

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 463 List Number: 1

Creator: Clifton, Cloe

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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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Login Sample Receipt Checklist

Client: WSP USA Inc.

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

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

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

List Source: Eurofins Midland

List Creation: 04/01/21 11:43 AM



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

AMER

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 <u>www.EurofinsUS.com</u>



Received by OCD: 6/4/2021 11:07:34 AM

Client Sample Result Summary

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

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 10	6:49	04/06/2021 10	6:49
	Analyzed:	04/07/2021 0	6:44	04/07/2021 0	7:04
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	d: 04/03/2021	13:41	04/03/2021	13:41
Analyzed	d: 04/05/2021	06:47	04/05/2021	07:09
Analyte Unit/RI	L: 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
Oll 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 2	1:05	04/08/2021 2	1:10
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Chloride		11.6	4.97	9.27	4.95

Job ID: 890-464-1 SDG: TE012920072 Received by OCD: 6/4/2021 11:07:34 AM

🔅 eurofins

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

RAMER

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

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

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

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

LINKS **Review your project** results through Total Access **Have a Question?** Ask-The Expert Visit us at: www.eurofinsus.com/Env

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

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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		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
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		8
Abbreviation	These commonly used abbreviations may or may not be present in this report.	Q
<u>¤</u>	Listed under the "D" column to designate that the result is reported on a dry weight basis	3
%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)	4.0
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	
TEE	Toxicity Equivalent Factor (Dioxin)	

- TEF Toxicity Equivalent Factor (Dioxin)
- TEQ Toxicity Equivalent Quotient (Dioxin)
- TNTC Too Numerous To Count

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.

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Job ID: 890-464-1 SDG: TE012920072 Project/Site: Phantom Bank 25-25-30

Client Sample Results

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Job ID: 890-464-1 SDG: TE012920072

Lab Sample ID: 890-464-1

Matrix: Solid

Client Sample ID: CH03 Date Collected: 03/30/21 11:50 Date Received: 03/31/21 13:21

Client: WSP USA Inc.

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	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/05/21 06:47	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/05/21 06:47	1
C10-C28)								
Oll 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

Date Collected: 03/30/21 12:10

Lab Sample ID: 890-464-2

Matrix: Solid

Date Received: 03/31/21 13:21

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 Ra	ange Organics (Dl	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/05/21 07:09	1

(GRO)-C6-C10

Project/Site: Phantom Bank 25-25-30

Job ID: 890-464-1 SDG: TE012920072

Matrix: Solid

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Lab Sample ID: 890-464-2

Client Sample ID: CH03A

Client: WSP USA Inc.

Date Collected: 03/30/21 12:10 Date Received: 03/31/21 13:21

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/05/21 07:09	1
C10-C28)								
Oll 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 Chro	matography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	9.27		4.95	mg/Kg			04/08/21 21:10	

Job ID: 890-464-1 SDG: TE012920072

Prep Type: Total/NA

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-464-1	CH03	113	94	
390-464-2	CH03A	108	95	
_CS 880-1404/1-A	Lab Control Sample	104	105	
CSD 880-1404/2-A	Lab Control Sample Dup	105	106	
MB 880-1404/5-A	Method Blank	105	97	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
Sample ID		1CO1 (70-130)	OTPH1 (70-130)	
וו זווו 1-1	Client Sample ID CH03	110	118	
l-2	CH03A	108	118	
0-1283/2-A	Lab Control Sample	121	116	
880-1283/3-A	Lab Control Sample Dup	117	113	
80-1283/1-A	Method Blank	100	104	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1404/5-A
Mately: Callel

Matrix: Solid Analysis Batch: 1370

Analysis Batch: 1370							Prep Bato	:h: 1404
	MB	МВ						
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 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
	MB	МВ						
Surrogate	%Recovery	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

-	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%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

	LCS	LCS	
Surrogate	%Recovery	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									Pre	p Batch	: 1404
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	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
	LCSD	LCSD									
Surrogata	% Pasavary	Qualifiar	Limita								

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

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA	
Prep Batch: 1404	

5

Job ID: 890-464-1

SDG: TE012920072

Prep Type: Total/NA

Client Sample ID: Method Blank

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

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

Lab Sample ID: MB 880-1283/1	- A							С	lient Sa	ample ID: Met	hod I	Blank
Matrix: Solid										Prep Type	: Tot	tal/NA
Analysis Batch: 1291										Prep B	atch:	128
	Ν	IB MB										
Analyte	Res	ult Qualifier	RL		Unit		D	Pre	pared	Analyzed	1	Dil Fa
Gasoline Range Organics	<50	0.0 U	50.0		mg/K	ζg		04/03/2	21 13:41	04/04/21 22:4	1	
(GRO)-C6-C10												
Diesel Range Organics (Over	<50	0.0 U	50.0		mg/K	ξg	(04/03/2	21 13:41	04/04/21 22:4	1	
C10-C28)	-50		50.0			(04/00/	04 40.44	04/04/04 00:4		
Oll Range Organics (Over C28-C36)		0.0 U	50.0		mg/K				21 13:41	04/04/21 22:4		
Total TPH	<50	0.0 U	50.0		mg/K	g	(04/03/2	21 13:41	04/04/21 22:4	1	
	л	IB MB										
Surrogate	%Recove	ry Qualifier	Limits					Pre	pared	Analyzed		Dil Fa
1-Chlorooctane	1	00	70 - 130				-	04/03/2	21 13:41	04/04/21 22:4	1	
o-Terphenyl	1	04	70 - 130				(04/03/	21 13:41	04/04/21 22:4	1	
Lab Sample ID: LCS 880-1283/	2-A						Cli	ent S	Sample	ID: Lab Contr	ol Sa	ample
Matrix: Solid										Prep Type	: Tot	al/N/
Analysis Batch: 1291										Prep B		
-			Spike	LCS	LCS					%Rec.		
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics			1000	1072		mg/Kg			107	70 - 130		
(GRO)-C6-C10												
Diesel Range Organics (Over			1000	1024		mg/Kg			102	70 - 130		
C10-C28)												
	LCS L	cs										
Surrogate	%Recovery G		Limits									
1-Chlorooctane	121		70 - 130									
o-Terphenyl	116		70 - 130									
Lab Sample ID: LCSD 880-128	3/3-A					CI	ient S	amp	le ID: L	ab Control Sa	mple	e Duj
Matrix: Solid										Prep Type		
Analysis Batch: 1291										Prep B		
			Spike	LCSD	LCSD					%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits F	RPD	Limi
Gasoline Range Organics			1000	1076		mg/Kg			108	70 - 130	0	20
(GRO)-C6-C10												
Diesel Range Organics (Over			1000	976.6		mg/Kg			98	70 - 130	5	2
C10-C28)												
	LCSD L	CSD										
Surrogate	%Recovery G		Limits									
1-Chlorooctane	<u></u>	-	70 - 130									
o-Terphenyl	113		70 - 130									
ethod: 300.0 - Anions, lo	n Chromato	graphy										
Lab Sample ID: MB 880-1412/1	- A							С	lient Sa	ample ID: Met	hod !	Blan
Matrix: Solid								-		Prep Typ		
Analysis Batch: 1523												
	N	IB MB										
Analyte		ult Qualifier	RL		Unit		D	Pre	pared	Analyzed		Dil Fac
							<u> </u>	1.16	parcu			Sura

5

Job ID: 890-464-1 SDG: TE012920072

Eurofins Xenco, Carlsbad

04/08/21 19:02

Chloride

5.00

mg/Kg

<5.00 U

1

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					Client	Sample	ID: Lab Co Prep	ontrol Sa Type: So	
Analysis Batch: 1523									
	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	265.5		mg/Kg		106	90 - 110		
Lab Sample ID: LCSD 880-1412/3-A				Clier	nt San	nple ID: I	Lab Contro	I Sampl	e Dup
Matrix: Solid							Prep	Type: So	oluble
Analysis Batch: 1523									
	Spike	LCSD	LCSD				%Rec.		RPD
					_				
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30 Page 88 of 140

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8 9

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					
. '	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
Lab Sample ID	Client Sample ID CH03	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
Lab Sample ID 890-464-1	••				Prep Batch
Lab Sample ID 890-464-1 890-464-2	CH03	Total/NA	Solid	5035	Prep Batch
Prep Batch: 1404 Lab Sample ID 890-464-1 890-464-2 MB 880-1404/5-A LCS 880-1404/1-A	CH03 CH03A	Total/NA Total/NA	Solid Solid	5035 5035	Prep Batch

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

Lab Chronicle

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

Client Sample ID: CH03

Date Collected: 03/30/21 11:50 Date Received: 03/31/21 13:21

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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 Date Collected: 03/30/21 12:10 Date Received: 03/31/21 13:21

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	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	СН	XM

Laboratory References:

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

Eurofins Xenco, Carlsbad

Job ID: 890-464-1 SDG: TE012920072

Lab Sample ID: 890-464-1 Matrix: Solid

Lab Sample ID: 890-464-2

Matrix: Solid

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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.

uthority	P	rogram	Identification Number	Expiration Date	
exas	N	ELAP	T104704400-20-21	06-30-21	
• ,		ut the laboratory is not certil	fied by the governing authority. This list ma	ay include analytes for v	
the agency does not o Analysis Method		Matrix	Analyte		
the agency does not o Analysis Method 8015B NM	fter certification . Prep Method 8015NM Prep	Matrix Solid	Analyte Total TPH		

Eurofins Xenco, Carlsbad

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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

Eurofins Xenco, Carlsbad

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		
						5
						8
						9
						10
						12
						13
						14

Eurofins Xenco, Carlsbad

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4/9/2021

or 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 b 1 J Q V/QQ/N L 3/31/21 2 3 J J J J J 4 5 6 6 6 6 6	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 AI Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: BRCRA Sh As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se J Display Display 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 contractors.		CHO 3A	CH03 S	Sample Identification Matrix	Seals: Yes (No) / Seals: Yes (No)	SAMPLE RECEIPT Temp Blank: Temperature (°C): 1.010000000000000000000000000000000000	P.O. Number: NRM 761 765 . Sampler's Name: Travis Casey	TE012	Project Name: Phunkon Junks	Phone: (432) 704-5178	City, State ZIP: Midland, TX 79705		WSP USA Inc.,	Project Manager: Taron M	XENCO
Pplied to each project and a charge of \$5 for Received by: (Signature) Gaddary, Urddin l 2	e analyzed BRCRA ent of samples constitutes a val		1 1210	3-30-21 1150	trix Date Time Sampled Sampled	N/A Correction Factor: N/A Total Containers:	ank: (Yes) No Wet Ice:	3444	72	25-25-30	Ē.		dg 1, Unit 222	nian office	Mar 5504	Hou Mi Hobbs, NM (575
nature) NCU 3	8RCRA 13PPM Texas 11 A TCLP / SPLP 6010: 8RCRA nstitutes a valid purchase order from client not assume any responsibility for any losse		4		Depth		Yes No	Rush: Due Date:	Routine 🗙	Turn Around	nail. travis.casey@v	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	(ston, TX (281) 240-4200 dland, TX (432-704-5440 -392-7550) Phoenix, AZ
Date/Time [3][2] [3:2]	AISD AS Ba Be I VA Sh As Ba Be (ent company to Xenco, its a usess or expenses incurred		-		TPH (E BTEX (er of Col PA 8015) EPA 8021 de (EPA 3)				Email: travis.casey@wsp.com, kalei.jennings@wsp.com, da	Carlsbad, NM		XTO Energy	Kyle Littrell	Chain of Custody Dallas, TX (214) 902-0300 San Antonio,) EL Paso, TX (915)585-3443 Lubbock,T (480-355-0900) Atlanta, GA (770-449-88)
Relinquished by: (Signature)	B Cd Ca Cr Co Cu Fe Pb Cd Cr Co Cu Pb Mn Mo N affiliates and subcontractors. It assigns by the client if such losses are due to c						890-464 Chain of Custody			ANALYSIS REQUEST	gs@wsp.com, dan.moir@w					Chain of Custody Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 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)
nless previously negotiated. ture) Received by: (Signature)	Ag SiO2									EST	Deliverables: EDD	evel III	State of Project: NM	Program: UST/PST PRP Brownfields	Work Order Comments	Work Order No:
Date/Time Revised Date 051418 Rev 2018 1	Na Sr TI Sn U V Zn 1631/245.1/7470 /7471 : Hg			Piscietz	Sample Comments	TAT starts the day recevied by the lab, if received by 4:30pm	AB#: 30-015-40756	CCH: 1140221001		Work Order Notes	Other:	ç		s RC uperfund	nents	Page 1 of 1

Received by OCD: 6/4/2021 11:07:34 AM

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Received by OCD: 6/4/2021 11:07:34 AM

	Custody Seals Intact Custody Seal No ∆ Yes ∆ No	Relinquished by		Reinquished by UR CULA 3.3121	Empty Kit Relinquished by	Deliverable Requested 1 II III IV Other (specify)	Possible Hazard Identification Unconfirmed	were, since new awy accellations are surged, burging, Euronins Konco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories, maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instruc LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC	Note: Cinco laboration approximition and withink to about a Turnet of Variant to					CH03A (890-464-2)	CH03 (890-464-1)		Sample Identification - Client ID (Lab ID)		Project Name: Phantom Bank 25-25-30	Email	Phone. 432-704-5440(Tel)	Mıdland State, Zip TX, 79701	1211 W Florida Ave City	Eurofins Xenco	Shipping/Receiving Company	Client Information (Sub Contract Lab)	Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199
		Date/Time:	Date/Ime	Date/Time:		Primary Deliverable Rank		turn the signed Chain						3/30/21	3/30/21	V A	Sample Date	SSÓW#:	Project #: 89000004	WO #:	PO #		4/6/2021	Due Date Decuer		Sampler	
					Date	able Rank 2		o of method, and amples must be of Custody atte						12 10 Mountain	11 50 Mountain	\mathcal{L}	Sample Time						avel				Chain of Custody Record
		0	0	0				shipped back shipped back sting to said cor			 					. SO -	Sample Type (C≕comp, G≕grab) вт										of Cust
		Company	Company	Company				ation complianc to the Eurofins nplicance to Eu						Solid	Solid	surfile	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)						~		E-Mail	Lab PM Krame	ody R
ļ	0	5	<u>v</u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Time	Spec	Sam	e upon o Xenco LL Irofins Xe								X	Field Filtered Perform MS/M	SD (Y	es or l	10)	79	1777		Accreditations Required (See note) NELAP - Louisiana NELAP	E-Mail. jessica kramer@eurofinset.com	Lab PM Kramer, Jessica	scor
	Cooler Temperature(s)	Received by	Received by	Received	$\left[\right]$	Special Instructions/Q	Sample Disposal (A	It subco C labora nco LLC			 			××	× ×		8015MOD_NM/8 300_ORGFM_28			·····-		<u></u>	1	Louis	r@eur	ន	d
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[and	[C Requirements	e ma	ries. Ti Istructio		┞──┼	 												nalysis	^{note)} AP - Texas			
	and Other Remarks			100		lireme	be	his san ons will			 	-											s Re	xas			
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							9 For	status									w	Other [.]	EDTA EDA	_		Zn Acetate Nitric Acid NaHSO4	HCL	Job #: 890-464-1	Page Page 1 of 1	COC No: 890-142 1	eur
				slam			fee may be assessed if samples are retained longer than 1 t Disposal By Lab Archive For	If the should									pecia		1	ce DI Water		yetate Acid X04	ation (E	of 1	21	💸 eurofins
				_			n 1 n	laborati be brou							Salima Parandak		Instr		N <			ດນດァ	Preservation Codes				*****
Ver 11		Company	Company	Company		ľ	month) Months	cries. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco									Special Instructions/Note		v pH v	MCA	H2SC	N None O AsNaO2 P Na2O4S Q - Na2SO3	1 Hexa				Environment Testing America
11/01/2020		Ÿ	ų	y			ths	s not cı Eurofin:											1-5 (specif	one A	2203 24	302 34S	ine				nment 'a
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12 13 14

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

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 464 List Number: 1

Creator: Clifton, Cloe

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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

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

List Source: Eurofins Midland

List Creation: 04/01/21 11:43 AM

Login Sample Receipt Checklist

Client: WSP USA Inc.

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

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").



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

AMER

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 <u>www.EurofinsUS.com</u>



Client Sample Result Summary

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

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 10	6:49	04/06/2021 16:49		
	Analyzed:	04/07/2021 0	7:24	04/07/2021 0	7:45	
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 1	3:41	04/05/2021 0	9:24
	Analyzed:	04/05/2021 0	7:29	04/05/2021 18	8:57
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organi (GRO)-C6-C10	cs	<50.1 U	50.1	<49.9 U *+	49.9
Diesel Range Organics C10-C28)	<50.1 U	50.1	<49.9 U	49.9	
Oll Range Organics (Ov C28-C36)	ver	<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 2	1:15	04/08/2021 21:20		
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	
Chloride		573	4.96	291	4.98	

Job ID: 890-465-1 SDG: TE012920072

.

Received by OCD: 6/4/2021 11:07:34 AM

🔅 eurofins

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

RAMER

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

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

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

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

LINKS **Review your project** results through Total Access **Have a Question?** Ask-The Expert Visit us at: www.eurofinsus.com/Env Released to Imaging: 7/28/2021 2:02:17 PM

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		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
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.	8
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	9
<u>¤</u>	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)	R
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	

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

POS

PQL

PRES QC

RER

RL RPD

TEF

TEQ

TNTC

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.

Job ID: 890-465-1 SDG: TE012920072

Project/Site: Phantom Bank 25-25-30

RL

0.00200

0.00200

0.00200

0.00401

0.00200

0.00401

0.00200

Limits

70 - 130

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

04/06/21 16:49

04/06/21 16:49

04/06/21 16:49

04/06/21 16:49

04/06/21 16:49

04/06/21 16:49

04/06/21 16:49

Dil Fac

1

1

1

1

1

1

Dil Fac

Job ID: 890-465-1 SDG: TE012920072

Client Sample ID: CH04

Date Collected: 03/30/21 13:30 Date Received: 03/31/21 13:21

Sample Depth: -1

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Client: WSP USA Inc.

Lab Sample ID: 890-465-1

Matrix: Solid

5

0

Prepared	Analyzed	D
04/06/21 16:49	04/07/21 07:24	
04/06/21 16:49	04/07/21 07:24	

Lab Sample ID: 890-465-2

Matrix: Solid

Analyzed

04/07/21 07:24

04/07/21 07:24

04/07/21 07:24

04/07/21 07:24

04/07/21 07:24

04/07/21 07:24

04/07/21 07:24

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

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00401 U

<0.00200 U

<0.00401 U

<0.00200 U

%Recovery Qualifier

111 102

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<50.1	U	50.1	mg/Kg		04/03/21 13:41	04/05/21 07:29	1	
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.1	U	50.1	mg/Kg		04/03/21 13:41	04/05/21 07:29	1	
C10-C28)									
Oll 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 Date Collected: 03/30/21 13:50

Date Received: 03/31/21 13:21

Sample Depth: - 4

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)			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

Client Sample ID: CH04A

Date Collected: 03/30/21 13:50 Date Received: 03/31/21 13:21

Sample Depth: - 4

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
Oll 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 Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride			4.98	mg/Kg			04/08/21 21:20	

Job ID: 890-465-1 SDG: TE012920072

Lab Sample ID: 890-465-2

Matrix: Solid

5

Job ID: 890-465-1 SDG: TE012920072

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix:	Sol	bil
matrix.	00	I U

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-465-1	CH04	111	102	
90-465-2	CH04A	116	98	
CS 880-1404/1-A	Lab Control Sample	104	105	
CSD 880-1404/2-A	Lab Control Sample Dup	105	106	
/IB 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

_				Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(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

Page 105 of 140 Prep Type: Total/NA

Eurofins Xenco, Carlsbad

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

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1404/5-A	
Marketers O all'al	

Matrix: Solid Analysis Batch: 1370

Analysis Batch: 1370							Prep Bato	:h: 1404
	MB	MB						
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 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
	МВ	МВ						
Surrogate	%Recovery	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

-	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%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

	LCS	LCS	
Surrogate	%Recovery	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									Pre	p Batch:	: 1404
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	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
	LCSD	LCSD									
Surrogata	% Pocovory	Qualifier	Limite								

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

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA	
Prep Batch: 1404	l

5

7

Prep Type: Total/NA

Client Sample ID: Method Blank

Page 106 of 140

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

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

Lab Sample ID: MB 880-1283/ Matrix: Solid Analysis Batch: 1291	1-A											Client Sa	mple ID: Me Prep Typ Prep F	e: To	
		ΜВ	МВ											Juitor	
Analyte	R	esult	Qualifier		RL			Unit		D	Р	repared	Analyzed		Dil Fac
Gasoline Range Organics	<	<50.0	U		50.0			mg/Kg		_	04/0	3/21 13:41	04/04/21 22:4	41 -	1
(GRO)-C6-C10															
Diesel Range Organics (Over C10-C28)	<	<50.0	U		50.0			mg/Kg	I		04/0	3/21 13:41	04/04/21 22:4	41	1
Oll Range Organics (Over C28-C36)	<	<50.0	U		50.0			mg/Kg	1		04/0	3/21 13:41	04/04/21 22:4	41	1
Total TPH	<	<50.0	U		50.0			mg/Kg			04/0	3/21 13:41	04/04/21 22:4	41	1
Surrogata	% Boos	MB		Lin	aita							roporod	Analyzad		Dil Fac
Surrogate 1-Chlorooctane	%Reco	100	Quanner		. 130							repared 3/21 13:41	Analyzed 04/04/21 22:4	41 -	1 DII Fac
o-Terphenyl		104			. 130							3/21 13:41	04/04/21 22:		1
Lab Sample ID: LCS 880-1283	/2-A									C	lient	Sample	ID: Lab Cont	rol S	ample
Matrix: Solid													Prep Typ		
Analysis Batch: 1291														Batch	n: 1283
				Spike			LCS						%Rec.		
Analyte				Added		Result	Qual	lifier	Unit		_ <u>D</u>	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10				1000		1072			mg/Kg			107	70 - 130		
Diesel Range Organics (Over				1000		1024			mg/Kg			102	70 - 130		
C10-C28)															
	LCS	LCS	;												
Surrogate	%Recovery			Limits											
1-Chlorooctane	121			70 - 130	-										
o-Terphenyl	116			70 - 130											
									0		•				
Lab Sample ID: LCSD 880-128 Matrix: Solid	33/3-A								CI	ent	San	IDIE ID: L	ab Control S		
Analysis Batch: 1291													Prep Typ		n: 1283
Analysis Datch. 1251				Spike		LCSD	LCS	D					%Rec.	Jater	RPD
Analyte				Added		Result			Unit		D	%Rec		RPD	Limit
Gasoline Range Organics				1000		1076			mg/Kg			108	70 - 130	0	20
(GRO)-C6-C10															
Diesel Range Organics (Over				1000		976.6			mg/Kg			98	70 - 130	5	20
C10-C28)															
	LCSD														
Surrogate	%Recovery	Qua	lifier	Limits	_										
1-Chlorooctane	117			70 - 130											
o-Terphenyl	113			70 - 130											
Lab Sample ID: MB 880-1303/	1-A											Client Sa	mple ID: Me	thod	Blank
Matrix: Solid													Prep Typ		
Analysis Batch: 1310															n: 1303
		ΜВ	MB												
Analyte			Qualifier		RL			Unit		D	P	repared	Analyzed		Dil Fac
Gasoline Range Organics	<	\$0.0	U		50.0			mg/Kg	I		04/0	5/21 09:24	04/05/21 15:0	03	1
(GRO)-C6-C10 Diesel Range Organics (Over		<50.0			50.0			mg/Kg	1		04/0	5/21 09:24	04/05/21 15:0	13	1
C10-C28)		-00.0	5		50.0			ing/ing	1		04/0	0121 03.24	07/03/21 13.0		I
Oll Range Organics (Over C28-C36)	<	<50.0	U		50.0			mg/Kg	l		04/0	5/21 09:24	04/05/21 15:0	03	1
Total TPH	<	\$50.0	U		50.0			mg/Kg			04/0	5/21 09:24	04/05/21 15:0	03	1

5

6 7 8

Job ID: 890-465-1 SDG: TE012920072

Eurofins Xenco, Carlsbad

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

Chloride

Chloride

Matrix: Solid

Analysis Batch: 1523

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

MB MB aver Overlifian

Surrogate	%Reco	overy Qualifier	Limits				F	Prepared	Analyzed	Dil Fa
1-Chlorooctane		112	70 - 130				04/0	05/21 09:24	04/05/21 15:0	3
o-Terphenyl		124	70 - 130				04/0	05/21 09:24	04/05/21 15:0	3
Lab Sample ID: LCS 880-1303/2-/							Clien	t Sample	ID: Lab Conti	ol Sampl
Matrix: Solid									Prep Type	
Analysis Batch: 1310										atch: 130
Analysis Baten. To To			Spike	LCS	LCS				%Rec.	
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics			1000	1426		mg/Kg		143	70 - 130	
(GRO)-C6-C10			1000	1420	·	ing/itg		140	10-100	
Diesel Range Organics (Over			1000	1198		mg/Kg		120	70 - 130	
C10-C28)										
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	114		70 - 130							
o-Terphenyl	111		70 - 130							
Lab Sample ID: LCSD 880-1303/3	^					Clie	nt Son		ab Control Sa	
Matrix: Solid	-A					Cile	int San	ipie iD. L	Prep Type	
Analysis Batch: 1310										atch: 130
Analysis Datch. 1310			Spike		LCSD				%Rec.	RP
Analyta			Added		Qualifier	Unit	D	%Rec		RPD Lim
Analyte			1000	1308					70 - 130	9 2
Gasoline Range Organics (GRO)-C6-C10			1000	1300	т	mg/Kg		131	70 - 130	9 2
Diesel Range Organics (Over			1000	1154		mg/Kg		115	70 - 130	4 2
C10-C28)										
	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	114		70 - 130							
o-Terphenyl	106		70 - 130							
/ /ethod: 300.0 - Anions, Ion (hromat	ography								
lethod: 500.0 - Amons, ion o	Smomat	ography								
Lab Sample ID: MB 880-1412/1-A								Client S	ample ID: Met	hod Blan
Matrix: Solid									Prep Typ	e: Solubl
Analysis Batch: 1523										
		MB MB								
Analyte		esult Qualifier	R				DF			Dil Fa

mg/Kg

106

90 - 110

mg/Kg

Analyte	Added	Result	Qualifier	Unit	D	%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 Du Prep Type: Solub							
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit

250

5.00

7

1

04/08/21 19:02

<5.00 U

Lab Sample ID: LCS 880-1412/2-A

265.3

20

0

Eurofins Xenco, Carlsbad

Job ID: 890-465-1 SDG: TE012920072

QC Association Summary

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

5 6

Job ID: 890-465-1 SDG: TE012920072

GC VOA

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Analysis Batch: 1370

CH04 CH04A Method Blank	Total/NA Total/NA	Solid	8021B	1404
	Total/NA	0		
Mathed Diank		Solid	8021B	1404
	Total/NA	Solid	8021B	1404
Lab Control Sample	Total/NA	Solid	8021B	1404
Lab Control Sample Dup	Total/NA	Solid	8021B	1404
Client Sample ID	Prep Type	Matrix	Method	Prep Batch
CH04	Total/NA	Solid	5035	
CH04A	Total/NA	Solid	5035	
Method Blank	Total/NA	Solid	5035	
Lab Control Sample	Total/NA	Solid	5035	
Lab Control Sample Dup	Total/NA	Solid	5035	
	Client Sample ID CH04 CH04A Method Blank Lab Control Sample	Client Sample IDPrep TypeCH04Total/NACH04ATotal/NAMethod BlankTotal/NALab Control SampleTotal/NA	Client Sample IDPrep TypeMatrixCH04Total/NASolidCH04ATotal/NASolidMethod BlankTotal/NASolidLab Control SampleTotal/NASolid	Client Sample IDPrep TypeMatrixMethodCH04Total/NASolid5035CH04ATotal/NASolid5035Method BlankTotal/NASolid5035Lab Control SampleTotal/NASolid5035

Lab Sample ID	Client Sample ID	Ргер Туре	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	
C Semi VOA					
rep 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

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Lab Sample ID	Client Sample ID	Ргер Туре	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	Ргер Туре	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 Samp	le ID Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-465-2	CH04A	Total/NA	Solid	8015B NM	1303
MB 880-13	303/1-A Method Blank	Total/NA	Solid	8015B NM	1303
LCS 880-1	303/2-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	Ргер Туре	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	

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 LCSD 880-1412/3-A	Lab Control Sample Dup	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
nalysis Batch: 1523					
ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
90-465-1	CH04	Soluble	Solid	300.0	1412
90-465-2	CH04A	Soluble	Solid	300.0	1412
B 880-1412/1-A	Method Blank	Soluble	Solid	300.0	1412
CS 880-1412/2-A	Lab Control Sample	Soluble	Solid	300.0	1412
CSD 880-1412/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1412

Project/Site: Phantom Bank 25-25-30

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Lab Chronicle

Job ID: 890-465-1 SDG: TE012920072

Lab Sample ID: 890-465-1 Matrix: Solid

Lab Sample ID: 890-465-2

Matrix: Solid

Date Collected: 03/30/21 13:30 Date Received: 03/31/21 13:21

Client Sample ID: CH04

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	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	СН	XM

Client Sample ID: CH04A Date Collected: 03/30/21 13:50 Date Received: 03/31/21 13:21

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	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	СН	XM

Laboratory References:

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

10

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.

uthority	Pr	ogram	Identification Number	Expiration Date
xas	NE	ELAP	T104704400-20-21	06-30-21
The following analytes the agency does not of		it the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for v
Analysis Method	Prep Method	Matrix	Analyte	
0,		Matrix Solid	Analyte Total TPH	

Eurofins Xenco, Carlsbad

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

Method Summary

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

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

Job ID: 890-465-1 SDG: TE012920072

Sample Summary

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30 Job ID: 890-465-1 SDG: TE012920072

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

	Market .	Relinquisbed by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from cilent 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 Service. 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.	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed						CHOHA	CHOH	Sample Identification	Sample Custody Seals: Yes (No)	Seals: Yes No	(Yes I	Temperature (°C):	SAMPLE RECEIPT Temp	me: T	NRM 201	Project Number: TEC129200	Project Name: Places from	Phone: (432) 704-5178	City, State ZIP: Midland, TX 79705	Address: 3300 North A St. Bldg 1, Unit 222	2	Project Manager: Tacoma	LABORATORIE	XENCO	
	Solday Ordanez	Received by: (Signature)	gnature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontract . 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 loss 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	œ۲						1350	5 3-30-25 1330	Matrix Date Time Sampled	N/A Total Containers:	I/A Correction	NO TINNIOCT	Thermometer ID	Temp Blank: Yes No Wet Ice: Yes	Due Date	12444	00 72 Routine	Jan / 25-25-30 Turn Around	Email: trav				Morrissey Bill	Midland,TX (Hobbs,NM (575-392-7550	Houston, TX (2	
	3/31/21 13:21	Date/Time	order from client company to Xenco, Its aff billity for any losses or expenses incurred b ch sample submitted to Xenco, but not anal	RCRA 13PPM Texas 11 AISbAs BaBeBCdCaCrCoCuFePbMgMnMoN TCLP/SPLP-6010. 5RCRASbAsBaBeCdCrCoCuPbMnMoNISeAgTIU						4 1 4 4 4		Number TPH (E BTEX (Chlorid	PA 8 EPA	015) 8021	1)		S				round	travis.casey@wsp.com, kalei.jenning	City, State ZIP: Carlsbad, NM	Address: 3104 E Greene St.	Company Name: XTO Energy	Bill to: (if different) Kyle Littrell	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 Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334	
σ	4 2	Relinquished by: (Signature)	Nilates and subcontractors. It assigns star y the client if such losses are due to circu yzed. These terms will be enforced unless	d Cr Co Cu Fe Pb Mg d Cr Co Cu Pb Mn Mo Ni S											890-465 Chain of Custory						ANALYSIS REQUEST	kalei.jennings@wsp.com, dan.moir@w	R		2		143 Lubbock,TX (806)794-1296 A (770-449-8800) Tampa,FL (813-620-	San Antonio, TX (210) 509-3334	4 l
		Received by: (Signature)	ors. It assigns standard terms and conditions es are due to circumstances beyond the control be enforced unless previously negotlated.	li K Se Ag SiO2 Na Sr 1631/2										TAT	Justoay		AP		<i>HJW</i>			Deliverables: EDD ADaP1] evel III] M		Work Order Comments	www.xenco.com	Work Order No:	
Revised Date 051418 Rev 2018.1	sed to	Date/Time	ging: 7	3n U V Zn /7470 /7471∶Hg	21.2	:02:1	7 ₽	W			Pisciete Pa	Sample Comments ge 17		TAT starts the day received by the 2			4210-01 S-40756			>	Work Order Notes	Otner:			RC Uperfund	lents	Page of	4/9/20	021

4/9/2021

13

Page 115 of 140

Received by OCD: 6/4/2021 11:07:34 AM

∆ Yes ∆ No	ody Seals	Relinquished by	relinquished by	reminquished by (100 Way 3.31.2)	Empty Kit Relinquished by	Deliverable Requested 1 II III IV Other (specify)	Possible Hazard Identification Unconfirmed	It have subversions are subject to change, Euromis Keno LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC accreditations will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC attention immediately.							CH04A (890-465-2)	CH04 (890-465-1)		Sample Identification - Client ID (Lab ID)	Site:	Project Name: Phantom Bank 25-25-30	Email	Phone 432-704-5440(Tel)	TX 79701	City Midland	Address 1211 W Florida Ave	Eurofins Xenco	Shipping/Receiving	Client Information (Sub Contract Lab)	Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad NM 88220 Phone. 575-988-3199 Fax: 575-988-3199
		Date/Time:	Date/Time:	Date/Time:		Primary Deliverable Rank		places the ownership being analyzed the sa urn the signed Chain o							3/30/21	3/30/21	X	Sample Date	SSOW#:	Project #: 89000004	WO #	PO#		TAT Requested (days)	Due Date Requested		Phone:	Sampler	
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		Company	Company	Company				editation com ack to the Eu l complicance							Solid	Solid	100	Matrix (W=water S=solid O=waste/oll, BT=TIssue, A=AIr									je ji	75	Chain of Custody Record
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	Cool	Rece	Rece	Rece		Special Instructions/QC Requirements	Sample Disposal (on out s o LLC la s Xenco							×	×		8016MOD_NM/8		n_009453	168.2/22/20/20	TPH	<u>Gellkiðderð</u>	0.605		Accreditations Required (See note) NELAP - Louisiana, NELAP	ımer@	Jessica	ord
	Cooler Temperature(s) °C	Received by	Received by	led by		Instru	le Disposal (A f Return To Client	ubconti aborato) LLC							×	×		300_ORGFM_28	D/DI_I	EACH	Chiori	de				: Requi)eurof		
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				302			A fee may be assessed if samples are retained longer than 1 month) ant Disposal By Lab Archive For Mont	ustody status s										S	Other [.]	EDTA EDA	I Ice J - DI Water	F MeOH G Amchlor H - Ascorbic Acid		NaOH	Preservation Codes	Job #: 890-465-1	Page: Page 1 of 1	COC No ⁻ 890-142 1	💸 eurofins
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Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 465 List Number: 1

Creator: Clifton, Cloe

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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

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

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

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

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

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

List Source: Eurofins Midland

List Creation: 04/01/21 11:42 AM



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

AMER

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 <u>www.EurofinsUS.com</u>



Client Sample Result Summary

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

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: Analyzed:	04/08/2021 10 04/08/2021 22		04/08/2021 1 04/08/2021 2	
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 0	9:24	04/05/2021 0	9:24	
	Analyzed:	04/05/2021 1	9:19	04/05/2021 19:4		
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	
Gasoline Range Organ (GRO)-C6-C10	lics	<49.8 U *+	49.8	<50.0 U *+	50.0	
Diesel Range Organics C10-C28)	s (Over	55.8	49.8	<50.0 U	50.0	
Oll Range Organics (O C28-C36)	ver	<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 2	1:25	04/08/2021 2	1:30
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Chloride		48.9	4.98	11.6	4.99

Job ID: 890-466-1 SDG: TE012920072

.

Received by OCD: 6/4/2021 11:07:34 AM

eurofins 🔅

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

RAMER

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

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

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

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

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at: www.eurofinsus.com/Env Released to Imaging: 7/28/2021 2:02:17 PM

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

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Definitions/Glossary

	Dennitions/Glossary		
Client: WSP US		Job ID: 890-466-1	
Project/Site: Ph	antom Bank 25-25-30	SDG: TE012920072	
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VOA			5
Qualifier	Qualifier Description		
*+	LCS and/or LCSD is outside acceptance limits, high biased.		6
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.		8
Glossary			
Glossary			9
Abbreviation ¤	These commonly used abbreviations may or may not be present in this report.		
%R	Listed under the "D" column to designate that the result is reported on a dry weight basis 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 RPD	Reporting Limit or Requested Limit (Radiochemistry) 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

.

5

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.

Project/Site: Phantom Bank 25-25-30

Method: 8021B - Volatile Organic Compounds (GC)

RL

0.00200

0.00200

0.00200

0.00399

0.00200

0.00399

0.00200

Limits

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

04/08/21 10:10

04/08/21 10:10

04/08/21 10:10

04/08/21 10:10

04/08/21 10:10

04/08/21 10:10

04/08/21 10:10

Prepared

04/08/21 10:10

04/08/21 10:10

Job ID: 890-466-1 SDG: TE012920072

Client Sample ID: CH05

Date Collected: 03/30/21 11:15 Date Received: 03/31/21 13:21

Sample Depth: -1

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

Client: WSP USA Inc.

Lab Sample ID: 890-466-1

Analyzed

04/08/21 22:31

04/08/21 22:31

04/08/21 22:31

04/08/21 22:31

04/08/21 22:31

04/08/21 22:31

04/08/21 22:31

Analyzed

04/08/21 22:31

04/08/21 22:31

Lab Sample ID: 890-466-2

Matrix: Solid

Matrix: Solid

Dil Fac

1

1

1

1

1

1

1

Dil Fac

5

1,4-Difluorobenzene (Surr)	82	70 - 130
– Method: 8015B NM - Diesel Range Organic:	s (DRO) (GC)	

Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00399 U

<0.00200 U

<0.00399 U

<0.00200 U

%Recovery Qualifier

121

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<49.8	U *+	49.8	mg/Kg		04/05/21 09:24	04/05/21 19:19	1	
(GRO)-C6-C10									
Diesel Range Organics (Over	55.8		49.8	mg/Kg		04/05/21 09:24	04/05/21 19:19	1	
C10-C28)									
Oll 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 Oblamastana			70 120			04/05/01 00:04	04/05/01 10:10		

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Method: 300.0 - Anions, Ion Chromat	ography - Soluble							
o-Terphenyl	111	70 - 130			04/05/21 09:24	04/05/21 19:19	1	
1-Chlorooctane	110	70 - 130			04/05/21 09:24	04/05/21 19:19	1	

Analyte	Result	Quaimer		Unit	U	Flepaleu	Analyzeu	DirFac	
Chloride	48.9		4.98	 mg/Kg	_		04/08/21 21:25	1	

Client Sample ID: CH05A Date Collected: 03/30/21 11:40 Date Received: 03/31/21 13:21

Sample Depth: - 4

Method: 8021B - Volatile Organ	nic 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)			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

Job ID: 890-466-1

Matrix: Solid

SDG: TE012920072

Lab Sample ID: 890-466-2

Client Sample Results

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

Client Sample ID: CH05A

Date Collected: 03/30/21 11:40 Date Received: 03/31/21 13:21

Sample Depth: - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *+	50.0	mg/Kg		04/05/21 09:24	04/05/21 19:40	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/05/21 09:24	04/05/21 19:40	1
C10-C28)								
Oll 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 Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

5

Job ID: 890-466-1 SDG: TE012920072

Method: 8021B - Volatile Organic Compounds (GC)

Ma	trix:	Sol	hil
IVIa	ITTIX:	20	lia

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-466-1	CH05	121	82		
890-466-2	CH05A	113	94		6
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					8

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		1C01	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(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

Prep Type: Total/NA

QC Sample Results

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

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1506/5-	Α									Client Sa	mple ID: Meth	od Blank
Matrix: Solid											Prep Type	Total/N/
Analysis Batch: 1508											Prep Ba	tch: 150
-		MB N	ИΒ								-	
Analyte	Re	sult C	Qualifier	RL		Unit		D	Pr	epared	Analyzed	Dil Fa
Benzene	<0.002	200 L	J	0.00200		mg/K	g	_	04/08	3/21 10:10	04/08/21 16:14	
Toluene	<0.002	200 L	J	0.00200		mg/K	g		04/08	3/21 10:10	04/08/21 16:14	
Ethylbenzene	<0.002	200 L	J	0.00200		mg/K	g		04/08	3/21 10:10	04/08/21 16:14	
m-Xylene & p-Xylene	<0.00	399 L	J	0.00399		mg/K	g g		04/08	3/21 10:10	04/08/21 16:14	
o-Xylene	<0.002	200 L	J	0.00200		mg/K	g		04/08	3/21 10:10	04/08/21 16:14	
Xylenes, Total	<0.00	399 L	J	0.00399		mg/K	g		04/08	3/21 10:10	04/08/21 16:14	
Total BTEX	<0.00	200 L	J	0.00200		mg/K	9		04/08	3/21 10:10	04/08/21 16:14	
		мв л	ИВ									
Surrogate	%Recov	very C	Qualifier	Limits					Pi	repared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)		75		70 - 130					04/08	8/21 10:10	04/08/21 16:14	
1,4-Difluorobenzene (Surr)		83		70 - 130					04/08	8/21 10:10	04/08/21 16:14	
Lab Sample ID: LCS 880-1506/1	-A							С	lient	Sample	D: Lab Contro	ol Sample
Matrix: Solid											Prep Type:	Total/N/
Analysis Batch: 1508												tch: 1506
				Spike	LCS	LCS					%Rec.	
Analyte				Added	Result	Qualifier	Unit		D	%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	
										108	70 - 130	
m-Xylene & p-Xylene				0.200	0.2152		mg/Kg			100		
m-Xylene & p-Xylene o-Xylene				0.200 0.100	0.2152 0.1146		mg/Kg mg/Kg			115	70 - 130	
	LCS	LCS										
	LCS %Recovery		ier									
o-Xylene			ier	0.100								

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

Analysis Batch: 1508							Pre	p Batch	: 1506
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	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
LCSD LCSD									

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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Job ID: 890-466-1

SDG: TE012920072

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QC Sample Results

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

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

Lab Sample ID: MB 880-1303/1	- A								Client Sa	mple ID: Meth	od B	lank
Matrix: Solid										Prep Type:		
Analysis Batch: 1310										Prep Ba		
	М	в мв										
Analyte	Resu	It Qualifier	RL		Unit		D	Pr	epared	Analyzed	D	il Fac
Gasoline Range Organics	<50.	0 U	50.0		mg/k	٢g	_	04/05	5/21 09:24	04/05/21 15:03		1
(GRO)-C6-C10												
Diesel Range Organics (Over	<50.	0 U	50.0		mg/k	٢g		04/05	5/21 09:24	04/05/21 15:03		1
C10-C28)			50.0									
Oll Range Organics (Over C28-C36)		0 U	50.0		mg/k				5/21 09:24	04/05/21 15:03		1
Total TPH	<50.	0 U	50.0		mg/k	(g		04/05	5/21 09:24	04/05/21 15:03		1
	М	B MB										
Surrogate	%Recover	y Qualifier	Limits					Pr	epared	Analyzed	D	il Fac
1-Chlorooctane	11	2	70 - 130						5/21 09:24	04/05/21 15:03		1
o-Terphenyl	12	4	70 - 130					04/05	5/21 09:24	04/05/21 15:03		1
Lab Sample ID: LCS 880-1303/	2-A						С	lient	Sample	ID: Lab Contro	ol San	nple
Matrix: Solid										Prep Type:	Tota	I/NA
Analysis Batch: 1310										Prep Ba	tch: 1	303
			Spike	LCS	LCS					%Rec.		
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics			1000	1426	*+	mg/Kg			143	70 - 130		
(GRO)-C6-C10												
Diesel Range Organics (Over			1000	1198		mg/Kg			120	70 - 130		
C10-C28)												
	LCS LC	s										
Surrogate	%Recovery Qu	ıalifier	Limits									
1-Chlorooctane	114		70 - 130									
o-Terphenyl	111		70 - 130									
—												
Lab Sample ID: LCSD 880-130	3/3-A					CI	ient	Sam	ple ID: L	ab Control Sa	nple	Dup
Matrix: Solid										Prep Type:	Tota	I/NA
Analysis Batch: 1310										Prep Ba	tch: 1	303
			Spike	LCSD	LCSD					%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits R	PD	Limit
Gasoline Range Organics			1000	1308	*+	mg/Kg			131	70 - 130	9	20
(GRO)-C6-C10												
Diesel Range Organics (Over			1000	1154		mg/Kg			115	70 - 130	4	20
C10-C28)												
	LCSD LC	SD										
Surrogate	%Recovery Qu	ıalifier	Limits									
1-Chlorooctane	114		70 - 130									
o-Terphenyl	106		70 - 130									
_												
Method: 300.0 - Anions, Io	n Chromatog	raphy										
Lab Sample ID: MB 880-1412/1	-A								client Sa	mple ID: Meth		
Matrix: Solid										Prep Type	: Sol	uble
Analysis Batch: 1523												
• • •		ВМВ					_	_	-		-	
Analyte	Resu	It Qualifier			Unit		<u>D</u>	Pr	epared	Analyzed		il Fac

Job ID: 890-466-1 SDG: TE012920072

Eurofins Xenco, Carlsbad

04/08/21 19:02

Chloride

5.00

mg/Kg

<5.00 U

1

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	t Sample	e ID: Lab Co Prep	ontrol S Type: S	
Analysis Datch. 1525	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	265.5		mg/Kg		106	90 - 110		
Lab Sample ID: LCSD 880-1412/3-A				Clie	nt San	nple ID:	Lab Contro	ol Sampl	e Dup
Matrix: Solid								Type: S	
Analysis Batch: 1523									
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	265.3		mg/Kg		106	90 _ 110	0	20

QC Association Summary

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

4 5 6

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	Ргер Туре	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
SC Semi VOA					
rep 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	

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

Project/Site: Phantom Bank 25-25-30

Job ID: 890-466-1 SDG: TE012920072

Lab Sample ID: 890-466-1 Matrix: Solid

Lab Sample ID: 890-466-2

Matrix: Solid

Date Collected: 03/30/21 11:15 Date Received: 03/31/21 13:21

Client Sample ID: CH05

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	СН	XM

Client Sample ID: CH05A Date Collected: 03/30/21 11:40 Date Received: 03/31/21 13:21

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	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	СН	XM

Laboratory References:

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

Eurofins Xenco, Carlsbad

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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.

nority	Program		Identification Number	Expiration Date	
IS	NELAP T104704400-20-21 06-30-21				
The following analytes	are included in this report, bu	it the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for v	
he agency does not of Analysis Method		Matrix	Analvte		
he agency does not of Analysis Method 3015B NM	fer certification . Prep Method 8015NM Prep	Matrix Solid	Analyte Total TPH		

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

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 for service. Xenco will be labte 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) 1 July DODDY Ord/O/ALT Jyl/11 Jyl/21 2 3 July DODDY Ord/O/ALT Jyl/21 3 4 5 6 6 6 6 6	P.O. Number: U.M. M. Col 2 45 5 444 Sampler's Name: Travis Casey SAMPLE RECEIPT Temp Blank: Yes Temperature (°C): 1.0 0.6 Cooler Custody Seals: Yes No T		Name:	City, State ZIP: Midland, TX 79705 Phone: (432) 704-5178	Address: 3300 North A		Project Manager:	XENC
rquishment of samples constitutes a valid purch cost of samples and shall not assume any respon be applied to each project and a charge of 55 for Received by: (Signature) GODDY OYOOJALT	No We Thermor Total Contail Died Samp BRCRA BRCRA	72 72	Bell 7545-30		3300 North A St. Bldg 1, Unit 222		Marisia	Hobbs,NM
d purchase order from clit y responsibility for any io of \$5 for each sample sub nature) C	Date: Date: ID ID ID ID ID ID ID ID ID ID ID ID ID	Turn Around Routine X	Turn Around	City, State ZIP:	Address:	Company Name	Bill to: (if different)	u ston,TX (281) 240-4200 dland,TX (432-704-5440 -392-7550) Phoenix,AZ
lient company to Xenco, its affi losses or expenses incurred by bmitted to Xenco, but not anali Date/Time 3/3//21//3,72/	Image: Constraint of the state of			City, State ZIP: Carlsbad, NM Email: travis.casev@wsp.com. kalei.iennings@wsp.com. d	3104 E Greene St.	: XTO Energy	Kyle Littrell	Chain of Custody Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800)
fillates and subcontractors. It assigns sta y the client if such losses are due to circu yzed. These terms will be enforced unless Relinquished by: (Signature) 2 4 6		ANALISIS REVU	ANALYSIS REQUEST	s@wsp.com, dan.moir@w				Chain of Custody Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
It assigns standard terms and conditions re due to circumstances beyond the control nforced unless previously negotiated. (Signature) Received by: (Signature)	Chain of Custody Chain of Custody Custody Chain of Custody Chain of Custody Custody Chain of Custody		EST	Deliverables: EDD AD] H	Program: UST/PST PRP pro		work Order No:
ature) Date/Time	C供: り U/L ool A (1)井: 3つ - bi S - りゥフちら TAT starts the day received by the lab, if received by 4:30pm Sample Comments Sample Comments Na Sr Ti Sn U V Zn Na Sr Ti Sn U V Zn		Work Order Notes	ADaPT C Other:	2	βrownfields RC uperfund	Work Order Comments	No: Page of

Received by OCD: 6/4/2021 11:07:34 AM

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

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4/9/2021



Page 136 of 140

Received by OCD: 6/4/2021 11:07:34 AM

Δ Yes Δ No	1		Relinquished by (100 (JUD) 3 SIZI	Empty Kit Relinquished by	Deliverable Requested 1 II III IV Other (specify)	Possible Hazard Identification Unconfirmed	Note Since laboratory accreditations are subject to change. Eurofints Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.						CH05 (800-466-1)		Sample Identification - Client ID (Lab ID)	Site	Project Name: Phantom Bank 25-25-30	Email	432-704-5440(Tel)	State, Zip TX, 79701	City Midland	1211 W Florida Ave	Eurofins Xenco	Compring/Receiving	Client Information (Sub Contract Lab)	1089 N Canal St. Carisbad NM 86220 Phone 575-988-3199 Fax: 575-988-3199
	Date/Time:		Date/Time:		Primary Deliverable Rank		LC places the ownersi rix being analyzed the return the signed Cha				3/30/21	3/30/21			Sample Date	SSOW# [,]	Project #: 89000004	WO#	PO#		TAT Requested (days):	Due Date Requested 4/6/2021		Prnone:	vampier	
				Date			hip of method au e samples must t in of Custody att				Mountain	Mountain	11 15								(days):	sted				Chain
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Coder	Received by	Neceived by	Recent	Time	Special In	Sample L	ce upon out sub Xenco LLC lab urofins Xenco L				×	×	State Sec.	8	Field Filtered S Perform MS/MS 8015MOD_NM/80	SD (Y 15NN	es or l LS_Pr	NO) ep Full	трн				Accreditations Required (See note) NELAP - Louisiana NELAP - Texas	E-Mail lessica kramer@eurofinset.com	n er, Jessica	ecord
Cooler Temperature(s) "C	ad by		2		Special Instructions/QC Requirements	le Disposal (A f Return To Client	contract labora oratory or other LC				×	×	546	4	800_ORGFM_281			Chlori	de 			A	Required (See n Iisiana NEL	urofinset.co		
) 'C and Other Remarks					C Requirem	fee may be	itories. This se r instructions w							Sand Survey Street								nalvsis R	^{iote)} AP - Texas	Э		
Remarks.				Method	nents	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	ample shipment i vill be provided							al Marcal Samuel	·····							Analvsis Requested		State of Origin New Mexico	Carrier Tracking No(s)	
	Date/Time	Date/ I Ime	Date/Time	Method of Shipment:		f <mark>samples</mark> a 'Lab	s forwarded ur Any changes t							attend Buch i K. ma		<u></u>								8 i .	ting No(s)	
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			11:30			<mark>tained longer th</mark> Archive For	n status should							specia	0	Other [.]	K EDTA L EDA		F MeOH G Amchlar H Ascontic Acid	C Zn Acetate D Nitric Acid E NaHSO4		Preservation Codes	Job # [.] 890-466-1	Page: Page 1 of 1	COC No: 890-142 1	🔅 eurofins
	Company	Company	Company			an 1 month) Months	laboratory doe the brought to							special instructions/Note			V pH Z other	<	-1 (0 71	0 1 0	77	Codes				
	ny	ny	ηγ			', ths	∍s not current Eurofins Xer							ons/Note			pH 4-5 other (specify)	tone A	04 Dodecehudt	2 AsNaO2 2 Na2O4S 2 Na2SO3	ane					Environment Testing America

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

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 466 List Number: 1

Creator: Clifton, Cloe

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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Login Sample Receipt Checklist

Client: WSP USA Inc.

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

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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

List Source: Eurofins Midland

List Creation: 04/01/21 11:42 AM

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

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	30639
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

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
Created By	Condition	Condition Date

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Action 30639